

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P534004

Luminaire Tested: **GALN-SA9C-727-U-SL2-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P534004  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9C-727-U-SL2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 45178 lumens  
Efficiency: N/A  
Efficacy: 93.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G4

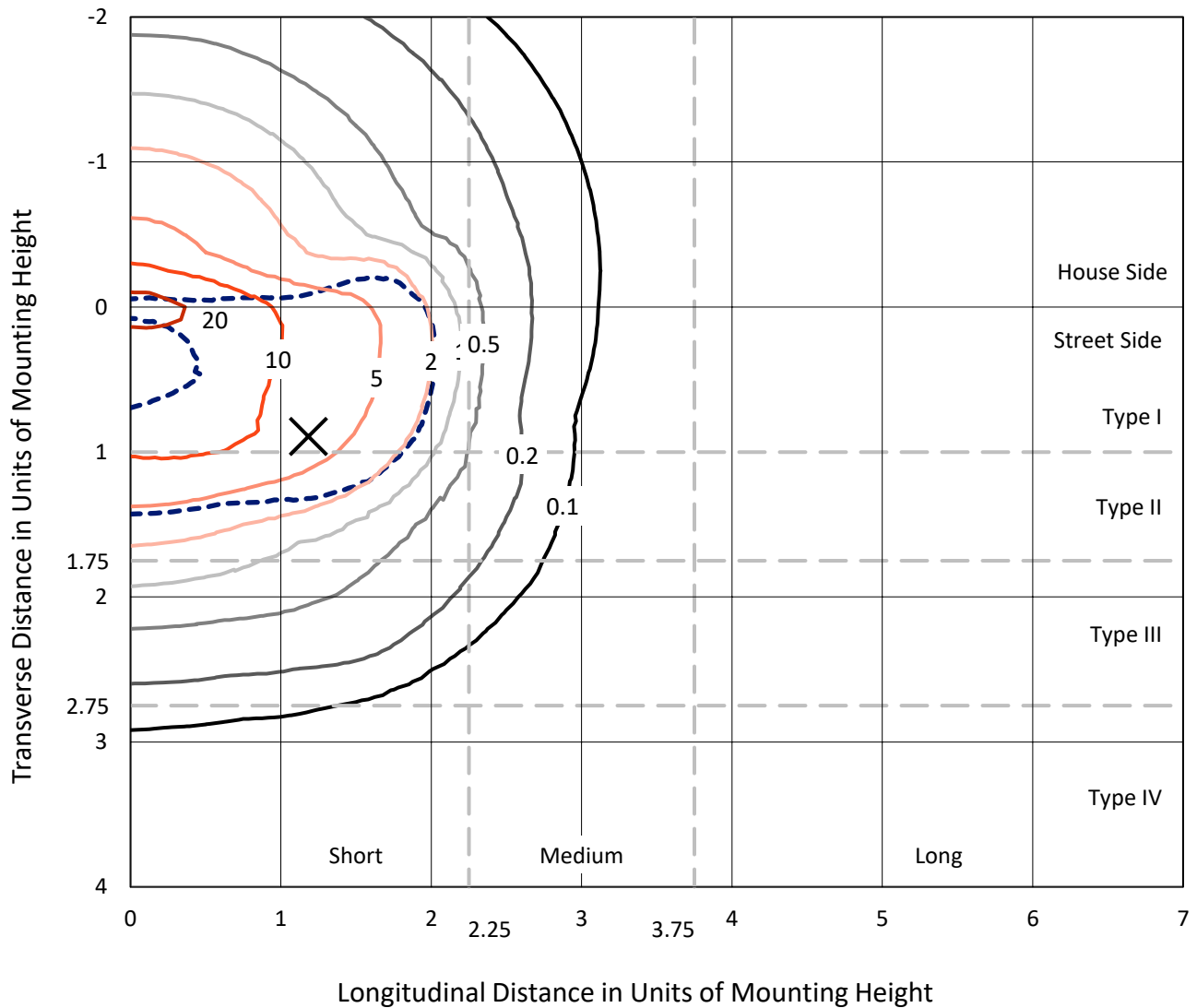
Input Watts (W): 481  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

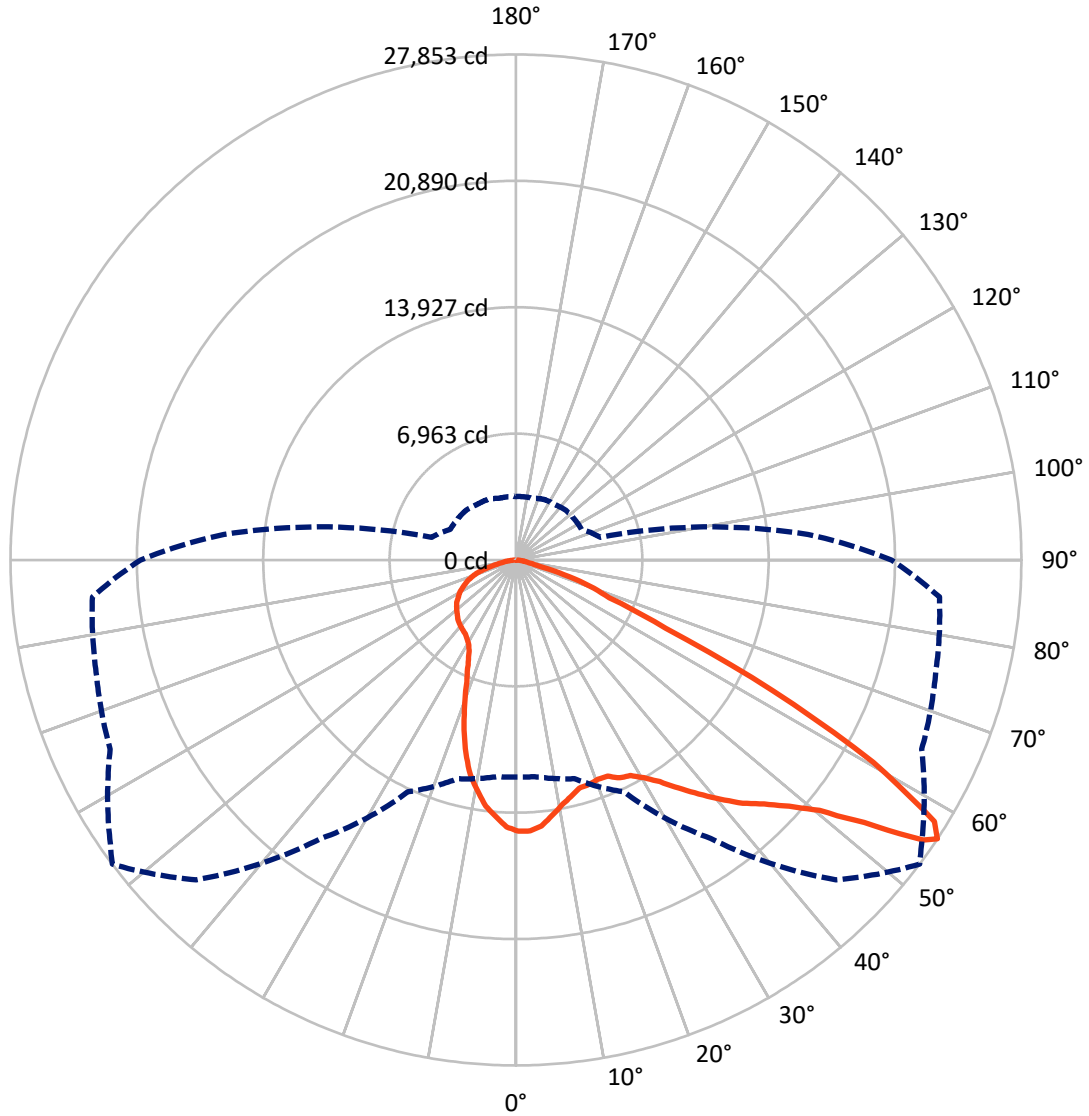
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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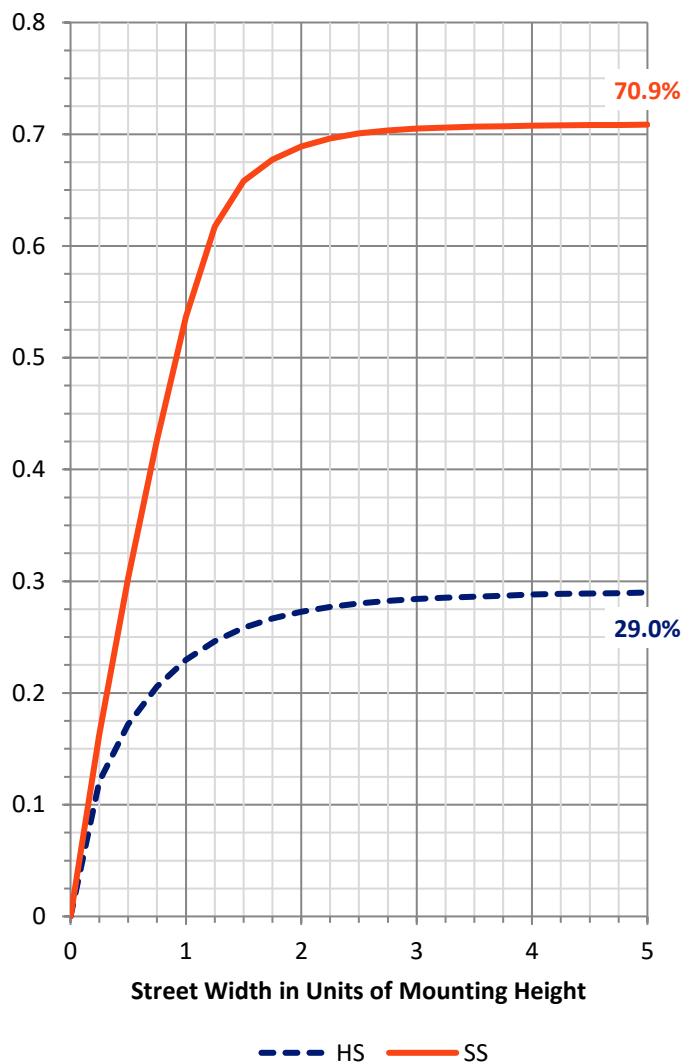
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	13183.9	0.0	13183.9
	% Fixture	29.2	0.0	29.2
<b>Street Side</b>	Lumens	31994.1	0.0	31994.1
	% Fixture	70.8	0.0	70.8
<b>Total</b>	Lumens	45178.0	0.0	45178.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1323.2	2.9
10°-20°	3304.8	7.3
20°-30°	4873.2	10.8
30°-40°	6962.9	15.4
40°-50°	9583.4	21.2
50°-60°	11325.1	25.1
60°-70°	6035.5	13.4
70°-80°	1531.2	3.4
80°-90°	238.8	0.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	45178.0	100.0
0°-180°	45178.0	100.0

**Coefficient of Utilization**



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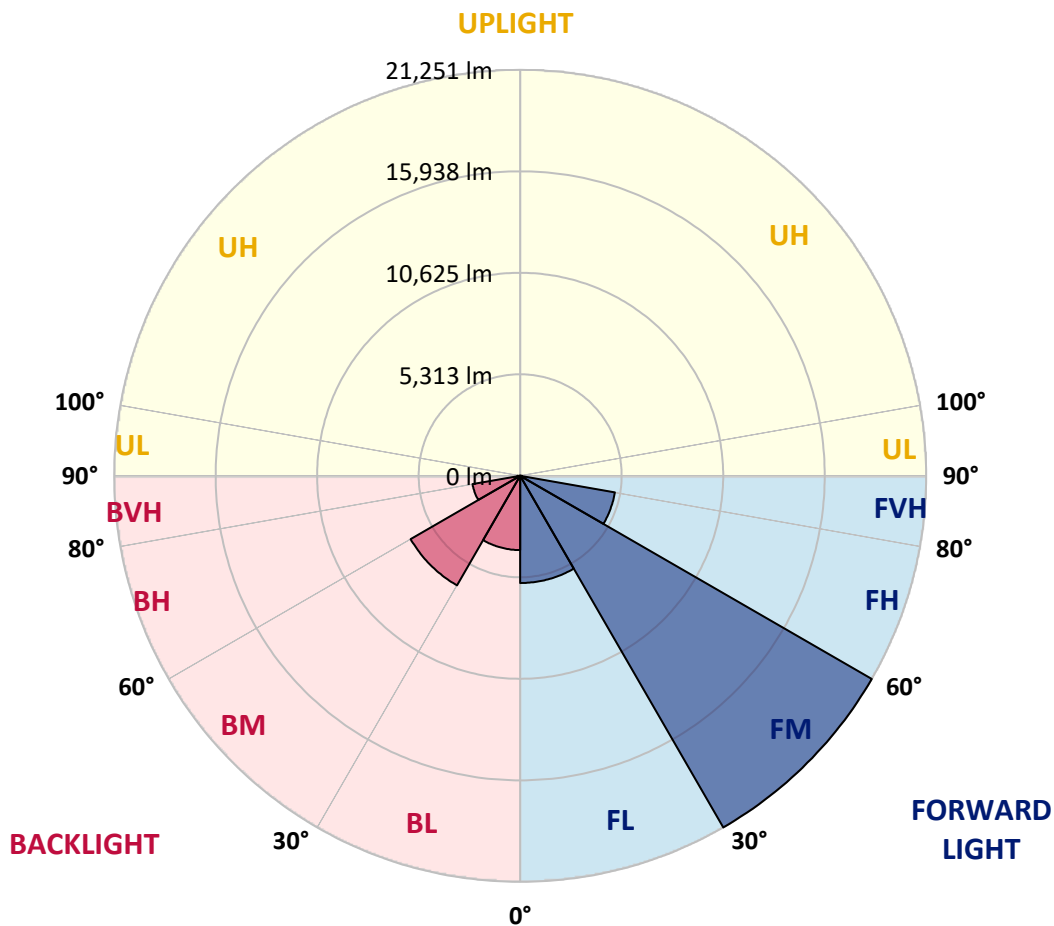
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5612.7	12.4			
FM (30°-60°)	21250.9	47.0			
FH (60°-80°)	5034.5	11.1			G3/7500
FVH (80°-90°)	96.0	0.2			G1/100
BL (0°-30°)	3888.5	8.6	B4/5000		
BM (30°-60°)	6620.5	14.7	B4/8500		
BH (60°-80°)	2532.1	5.6	B4/5000		G4/5000
BVH (80°-90°)	142.8	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G4**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	14946.7	14946.7	14946.7	14946.7	14946.7	14946.7	14946.7	14946.7	14946.7	14946.7	14946.7
2.5°	14761.2	14633.7	14709.0	14680.1	14917.7	14987.2	14952.5	14981.4	15114.7	15051.0	14917.7
5°	13793.4	13973.0	14007.8	14094.7	14233.8	14506.2	14720.6	14778.6	14842.3	15137.9	15108.9
7.5°	12912.4	13034.1	12970.4	13225.4	13526.8	13967.2	14228.0	14274.4	14859.7	15022.0	15143.7
10°	12356.1	12234.4	12524.1	12593.7	12935.6	13439.8	13752.8	13944.0	14477.2	15120.5	15195.9
12.5°	11840.3	11799.7	11973.6	12170.6	12553.1	13074.7	13393.5	13468.8	14291.8	14969.8	15323.4
15°	11457.8	11411.4	11585.3	11730.1	12176.4	12640.0	13045.7	13260.2	14088.9	14882.9	15213.3
17.5°	11156.4	11150.6	11249.1	11509.9	11967.8	12356.1	13011.0	13022.5	13984.6	15016.2	15306.0
20°	11139.0	11133.2	11150.6	11440.4	11857.6	12332.9	12900.8	13005.2	13984.6	14923.5	15311.8
22.5°	11283.9	11191.2	11295.5	11480.9	11782.3	12373.4	12941.4	13173.2	14320.7	15381.3	15572.6
25°	11515.7	11538.9	11596.8	11660.6	11834.5	12466.2	13300.7	13492.0	14714.8	15775.4	15931.9
27.5°	11938.8	11927.2	11950.4	11985.1	12135.8	12553.1	13445.6	13938.2	15537.8	16476.7	16320.2
30°	12558.9	12518.3	12611.1	12732.8	12593.7	12831.3	13926.7	14297.6	16302.8	17183.7	16754.9
32.5°	13121.1	13271.8	13445.6	13497.8	13329.7	13376.1	14564.2	14940.9	16940.3	18053.1	17288.1
35°	13822.3	13944.0	14175.9	14338.1	14309.2	14170.1	15433.5	15931.9	17861.8	18690.6	17850.2
37.5°	14506.2	14651.1	15033.6	15514.6	15248.0	15184.3	16360.8	16772.3	18145.8	19032.5	18261.7
40°	15607.4	15601.6	16262.2	16511.5	16749.1	16639.0	17322.8	17461.9	18296.5	18957.2	18273.3
42.5°	16899.8	16818.6	17490.9	17879.2	18186.4	18198.0	18325.5	18279.1	18366.0	18574.7	18151.6
45°	18128.4	18302.3	18980.3	19675.8	19983.0	20017.7	19171.6	19084.7	18487.7	18464.5	17919.8
47.5°	19629.4	19670.0	20226.4	21142.1	21854.9	21611.5	20267.0	20075.7	19020.9	19200.6	18308.1
50°	19716.4	20017.7	20516.2	21594.1	23784.8	23721.1	21686.9	21327.5	19878.7	20243.8	19391.8
52.5°	17896.6	17827.0	18418.2	20180.0	23640.0	25819.1	24039.8	23182.1	21721.6	21443.4	21147.9
55°	13636.9	13799.1	14320.7	16100.0	20527.8	25848.0	27244.8	26543.5	23692.1	23216.9	22874.9
56°	11962.0	11985.1	12477.8	14100.5	18731.1	24926.6	27853.3	27285.3	24671.6	23947.1	23425.5
57.5°	9916.1	9782.8	10037.9	10924.6	15810.2	22979.3	27186.8	27743.2	25819.1	24735.3	24010.9
60°	7806.6	7777.6	7673.3	7835.6	9991.5	17311.2	22631.5	23883.4	25703.2	23993.5	22996.6
62.5°	6375.1	6230.2	6438.8	6670.7	6943.0	10739.1	15902.9	16639.0	20406.0	19154.2	17276.5
65°	4943.6	4874.0	5134.8	5888.3	6050.5	6821.3	9058.4	9626.4	12048.9	11834.5	10420.4
67.5°	3402.0	3413.6	3639.6	4787.1	5610.1	5540.5	5546.3	5841.9	6288.1	4671.2	4068.5
70°	2155.9	2150.1	2271.8	3083.2	4514.7	4561.1	4329.3	4242.3	4022.1	2434.1	2579.0
72.5°	1385.1	1344.6	1408.3	1703.9	2335.6	2700.7	2781.9	2834.0	2329.8	1912.5	2074.8
75°	782.4	741.8	718.6	794.0	921.5	1066.4	1170.7	1205.5	1350.4	1448.9	1535.8
77.5°	237.6	214.4	260.8	347.7	457.8	614.3	747.6	770.8	909.9	1025.8	1112.7
80°	104.3	115.9	162.3	231.8	324.5	434.7	527.4	562.2	654.9	741.8	765.0
82.5°	63.8	69.5	110.1	156.5	226.0	307.2	376.7	388.3	481.0	550.6	568.0
85°	23.2	29.0	58.0	92.7	144.9	197.0	197.0	214.4	197.0	197.0	214.4
87.5°	0.0	0.0	5.8	11.6	11.6	17.4	23.2	23.2	29.0	34.8	40.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	14946.7	14946.7	14946.7	14946.7	14946.7	14946.7	14946.7	14946.7	14946.7	14946.7	14946.7
2.5°	14987.2	14958.3	14911.9	14743.8	14726.4	14674.3	14384.5	14338.1	14384.5	14245.4	14257.0
5°	14958.3	15045.2	14697.5	14529.4	14216.4	13990.4	13729.6	13596.3	13358.7	13208.0	13376.1
7.5°	15085.8	15051.0	14616.3	14251.2	13781.8	13208.0	12750.2	12489.4	12072.1	11956.2	12043.1
10°	15039.4	14853.9	14343.9	13862.9	12976.2	12472.0	11730.1	11011.5	10617.4	10414.6	10385.6
12.5°	14975.6	14923.5	14071.5	13242.8	12309.7	11249.1	10205.9	9527.8	8884.5	8606.4	8646.9
15°	15051.0	14610.5	13561.5	12512.5	11272.3	9881.4	8757.0	7881.9	7435.7	7256.0	7256.0
17.5°	15016.2	14459.8	13318.1	11695.4	10124.8	8478.9	7244.4	6717.0	6531.6	6531.6	6583.7
20°	15033.6	14558.4	12825.5	10878.2	8768.6	7140.1	6241.8	6050.5	6131.7	6160.6	6189.6
22.5°	15132.1	14233.8	12344.5	9979.9	7511.0	6108.5	5668.0	5673.8	5818.7	5975.2	5946.2
25°	15253.8	14106.3	11759.1	9087.4	6548.9	5604.3	5465.2	5447.8	5557.9	5639.0	5650.6
27.5°	15149.5	13886.1	11162.2	7974.6	5760.8	5268.1	5239.2	5250.7	5285.5	5447.8	5395.6
30°	15491.4	13949.8	10414.6	7041.6	5326.1	5158.0	5123.2	5105.9	5158.0	5204.4	5163.8
32.5°	15914.5	13723.8	9858.2	6143.3	5111.7	5076.9	5007.3	4984.2	5013.1	4966.8	4989.9
35°	16100.0	13683.2	9133.7	5500.0	4943.6	4914.6	4874.0	4868.2	4874.0	4833.5	4798.7
37.5°	16204.3	13874.5	8305.0	5204.4	4839.3	4868.2	4775.5	4763.9	4659.6	4682.8	4700.2
40°	16384.0	13578.9	7632.7	4920.4	4775.5	4717.6	4636.4	4619.0	4549.5	4508.9	4549.5
42.5°	16123.2	13492.0	6972.0	4798.7	4682.8	4619.0	4561.1	4462.6	4439.4	4404.6	4381.4
45°	15914.5	12993.6	6380.9	4648.0	4572.7	4537.9	4427.8	4323.5	4236.5	4271.3	4219.1
47.5°	16071.0	12819.7	5795.5	4520.5	4422.0	4381.4	4271.3	4190.2	4103.2	4062.7	4051.1
50°	16696.9	13144.3	5302.9	4427.8	4294.5	4271.3	4126.4	4033.7	3952.5	3923.6	3935.2
52.5°	18192.2	14031.0	4966.8	4236.5	4172.8	4068.5	3987.3	3871.4	3819.3	3726.5	3784.5
55°	20087.3	15474.1	4879.8	4056.9	4022.1	3929.4	3819.3	3732.3	3633.8	3558.5	3541.1
56°	20695.8	16163.7	4810.3	3987.3	3929.4	3877.2	3732.3	3680.2	3523.7	3506.3	3494.7
57.5°	21188.4	16772.3	4821.9	3854.0	3796.1	3749.7	3662.8	3535.3	3431.0	3367.2	3396.2
60°	20075.7	15700.1	4601.6	3651.2	3639.6	3552.7	3431.0	3373.0	3245.5	3170.2	3152.8
62.5°	14923.5	10658.0	3732.3	3390.4	3384.6	3291.9	3152.8	3089.0	3065.8	2961.5	2961.5
65°	8594.8	6682.2	3228.1	3175.9	3129.6	3036.9	2897.8	2845.6	2787.6	2752.9	2723.9
67.5°	3668.6	3465.7	2932.5	2926.7	2874.6	2758.7	2619.6	2538.4	2463.1	2393.6	2428.3
70°	2660.1	2700.7	2648.6	2619.6	2555.8	2410.9	2289.2	2190.7	2074.8	2028.4	2063.2
72.5°	2109.6	2196.5	2271.8	2277.6	2202.3	2034.2	1900.9	1767.6	1640.1	1576.4	1605.4
75°	1599.6	1657.5	1732.9	1750.2	1640.1	1524.2	1396.7	1257.6	1159.1	1083.8	1095.4
77.5°	1153.3	1141.7	1211.3	1199.7	1147.5	1066.4	950.5	823.0	712.8	643.3	649.1
80°	788.2	805.6	846.1	840.4	776.6	724.4	637.5	533.2	452.1	394.1	382.5
82.5°	550.6	579.6	614.3	585.3	533.2	481.0	417.3	341.9	278.2	231.8	220.2
85°	197.0	226.0	260.8	278.2	295.6	284.0	237.6	191.3	139.1	115.9	110.1
87.5°	40.6	46.4	52.2	52.2	52.2	46.4	40.6	40.6	34.8	17.4	17.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)