

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: P533068

Luminaire Tested: **GALN-SA8C-727-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533068
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-SA8C-727-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 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: 40242 lumens
Efficiency: N/A
Efficacy: 93.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

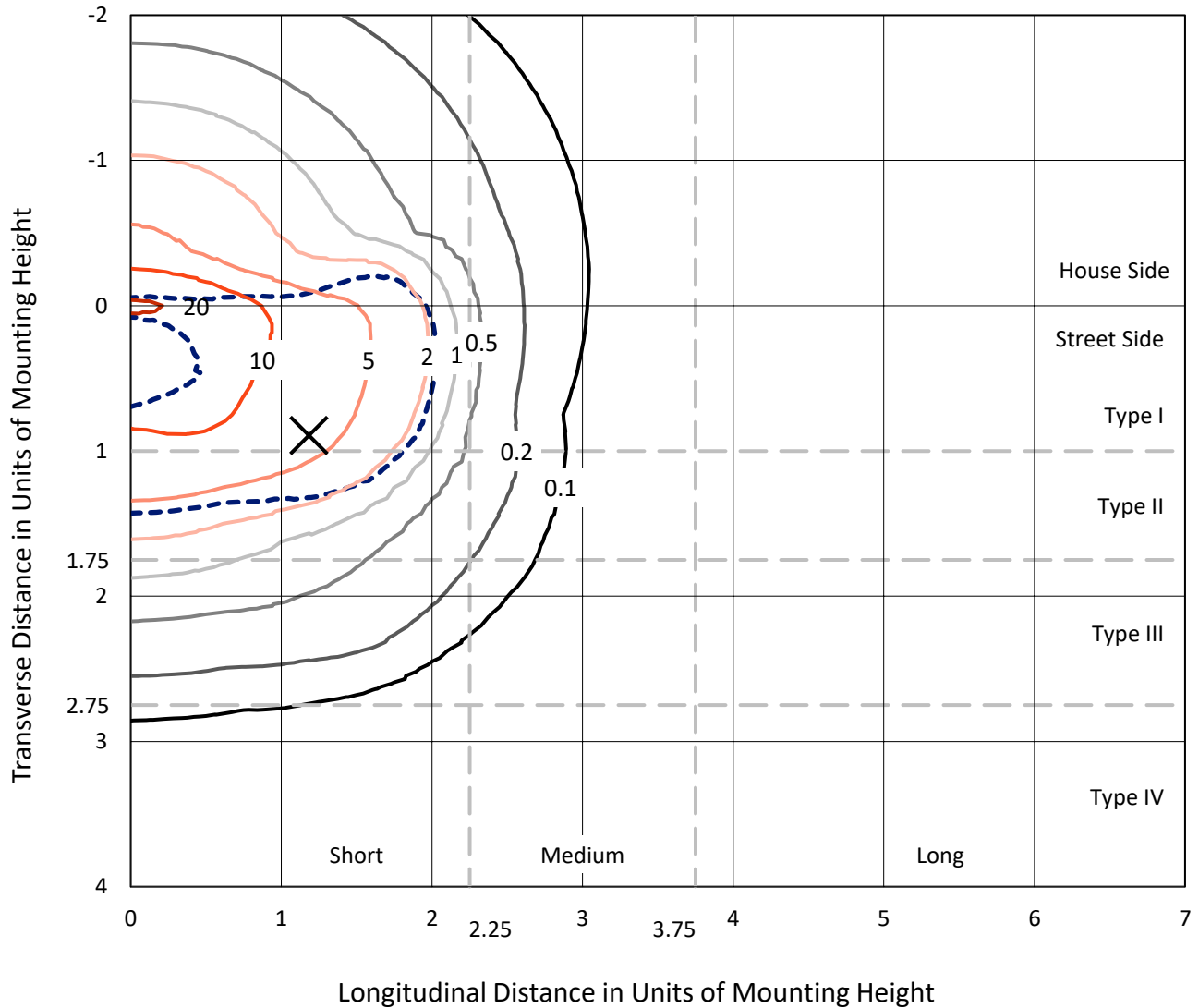
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

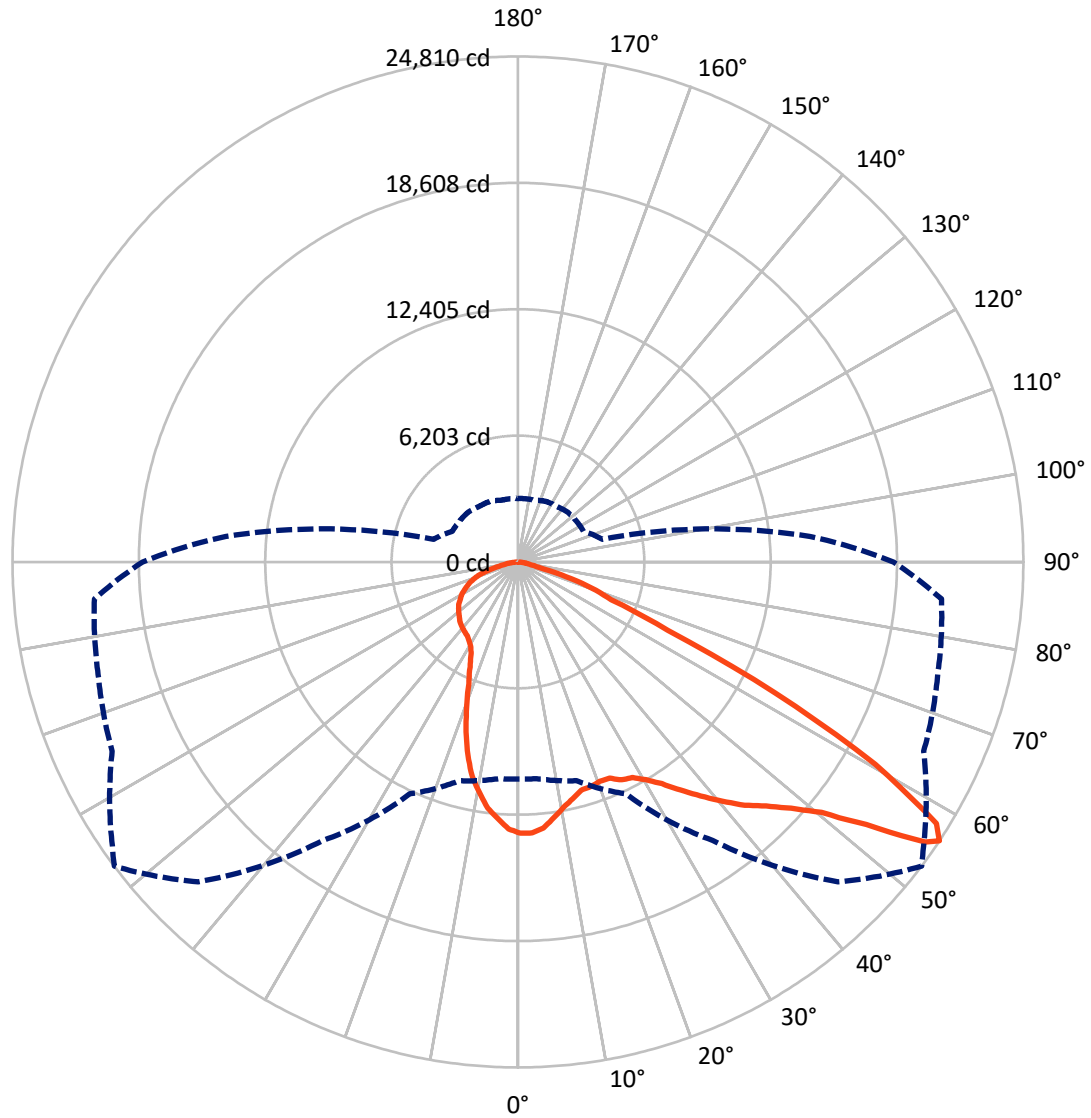
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.3 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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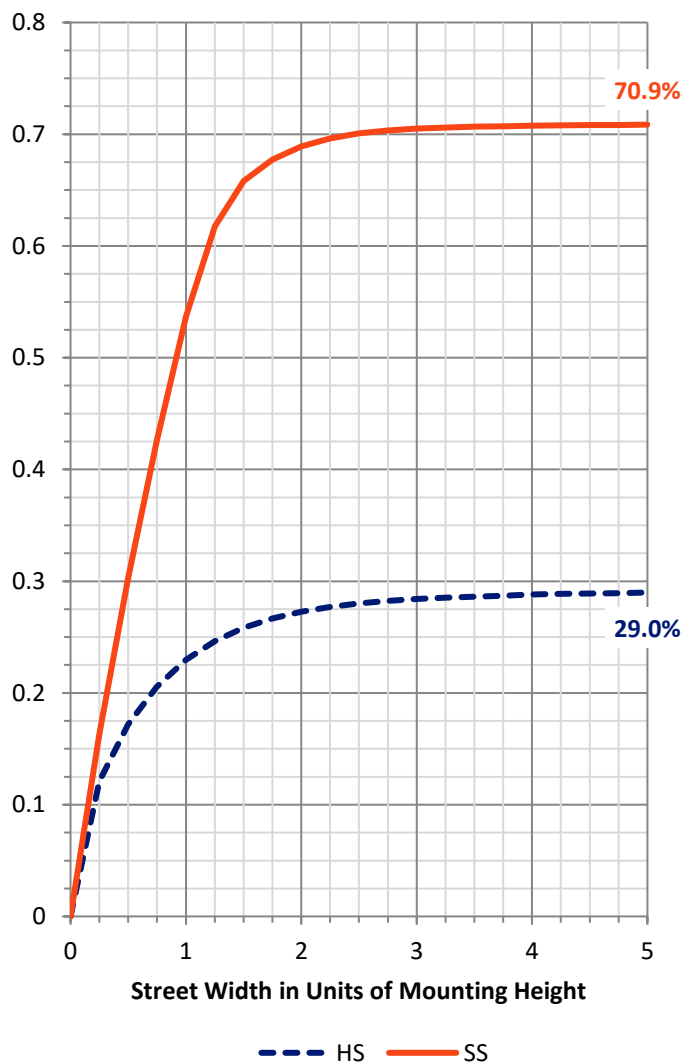
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11743.5	0.0	11743.5
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	28498.5	0.0	28498.5
	% Fixture	70.8	0.0	70.8
Total	Lumens	40242.0	0.0	40242.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1178.6	2.9
10°-20°	2943.7	7.3
20°-30°	4340.8	10.8
30°-40°	6202.1	15.4
40°-50°	8536.4	21.2
50°-60°	10087.7	25.1
60°-70°	5376.1	13.4
70°-80°	1363.9	3.4
80°-90°	212.7	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°	40242.0	100.0
0°-180°	40242.0	100.0

Coefficient of Utilization



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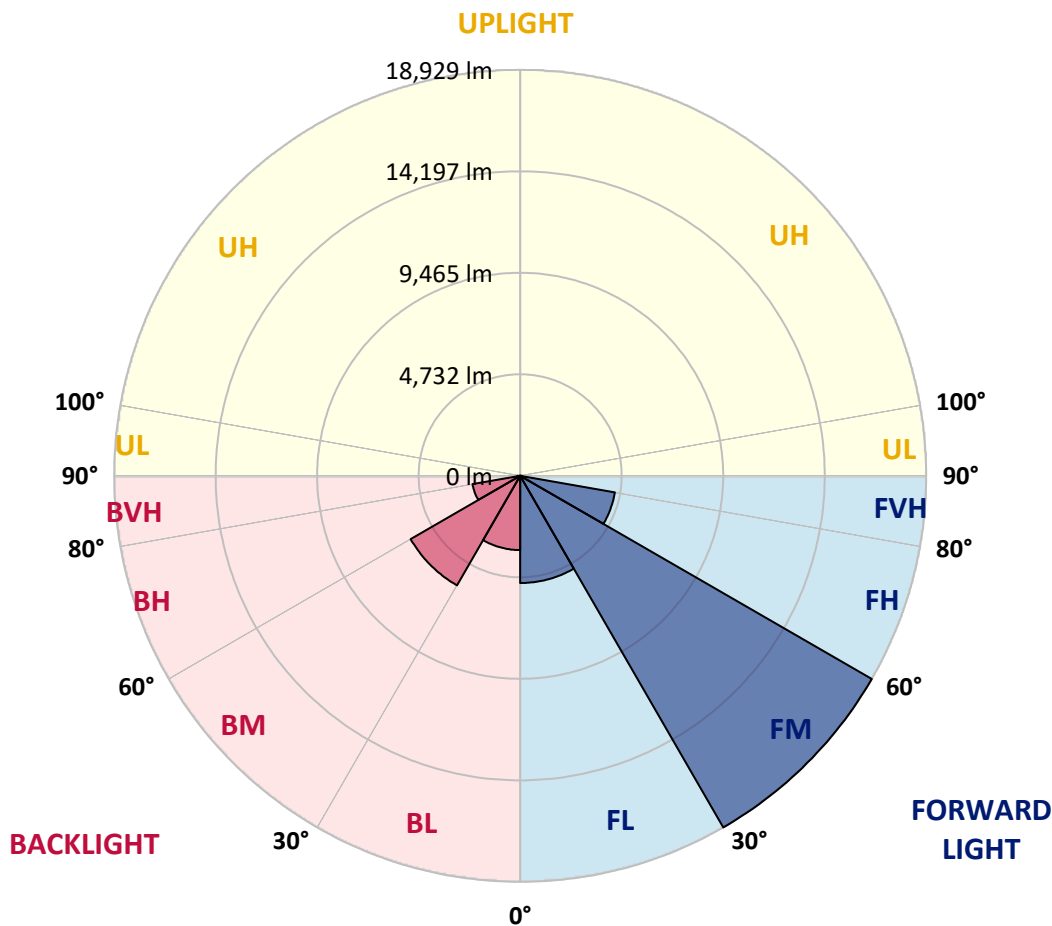
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4999.5	12.4			
FM (30°-60°)	18929.1	47.0			
FH (60°-80°)	4484.5	11.1			G2/5000
FVH (80°-90°)	85.5	0.2			G1/100
BL (0°-30°)	3463.6	8.6	B4/5000		
BM (30°-60°)	5897.2	14.7	B4/8500		
BH (60°-80°)	2255.5	5.6	B3/2500		G3/2500
BVH (80°-90°)	127.2	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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	13313.6	13313.6	13313.6	13313.6	13313.6	13313.6	13313.6	13313.6	13313.6	13313.6	13313.6
2.5°	13148.4	13034.9	13102.0	13076.2	13287.8	13349.8	13318.8	13344.6	13463.3	13406.6	13287.8
5°	12286.3	12446.4	12477.3	12554.8	12678.7	12921.3	13112.3	13163.9	13220.7	13484.0	13458.2
7.5°	11501.7	11610.1	11553.3	11780.4	12048.9	12441.2	12673.5	12714.8	13236.2	13380.7	13489.2
10°	11006.1	10897.7	11155.8	11217.7	11522.3	11971.4	12250.2	12420.6	12895.5	13468.5	13535.6
12.5°	10546.6	10510.5	10665.4	10840.9	11181.6	11646.2	11930.1	11997.2	12730.3	13334.3	13649.2
15°	10205.9	10164.6	10319.5	10448.5	10846.0	11259.0	11620.4	11811.4	12549.6	13256.9	13551.1
17.5°	9937.5	9932.3	10020.1	10252.4	10660.2	11006.1	11589.4	11599.7	12456.7	13375.6	13633.7
20°	9922.0	9916.8	9932.3	10190.4	10562.1	10985.4	11491.3	11584.3	12456.7	13293.0	13638.9
22.5°	10051.0	9968.5	10061.4	10226.6	10495.0	11021.6	11527.5	11734.0	12756.1	13700.8	13871.2
25°	10257.5	10278.2	10329.8	10386.6	10541.5	11104.2	11847.5	12017.9	13107.1	14051.9	14191.2
27.5°	10634.4	10624.1	10644.7	10675.7	10809.9	11181.6	11976.6	12415.4	13840.2	14676.5	14537.1
30°	11186.8	11150.6	11233.2	11341.6	11217.7	11429.4	12405.1	12735.5	14521.6	15306.3	14924.3
32.5°	11687.5	11821.7	11976.6	12023.1	11873.4	11914.6	12972.9	13308.5	15089.5	16080.6	15399.2
35°	12312.1	12420.6	12627.1	12771.6	12745.8	12621.9	13747.3	14191.2	15910.3	16648.5	15900.0
37.5°	12921.3	13050.4	13391.1	13819.5	13582.1	13525.3	14573.2	14939.8	16163.2	16953.1	16266.5
40°	13902.1	13897.0	14485.5	14707.5	14919.1	14821.0	15430.2	15554.1	16297.5	16886.0	16276.8
42.5°	15053.3	14981.1	15579.9	15925.8	16199.4	16209.7	16323.3	16282.0	16359.4	16545.3	16168.4
45°	16147.8	16302.6	16906.6	17526.1	17799.7	17830.7	17077.0	16999.5	16467.8	16447.2	15961.9
47.5°	17484.8	17520.9	18016.5	18832.2	19467.1	19250.3	18052.7	17882.3	16942.8	17102.8	16307.8
50°	17562.2	17830.7	18274.6	19234.8	21186.2	21129.4	19317.4	18997.4	17706.8	18032.0	17273.1
52.5°	15941.3	15879.3	16405.9	17975.2	21057.1	22998.2	21413.3	20649.3	19348.4	19100.6	18837.3
55°	12147.0	12291.5	12756.1	14340.9	18285.0	23024.0	24268.1	23643.5	21103.6	20680.3	20375.7
56°	10655.0	10675.7	11114.5	12559.9	16684.6	22203.2	24810.1	24304.2	21976.0	21330.7	20866.1
57.5°	8832.7	8714.0	8941.1	9731.0	14082.8	20468.6	24216.5	24712.1	22998.2	22032.8	21387.5
60°	6953.7	6927.8	6834.9	6979.5	8899.9	15419.9	20158.9	21273.9	22894.9	21372.0	20484.1
62.5°	5678.6	5549.5	5735.3	5941.8	6184.5	9565.8	14165.4	14821.0	18176.6	17061.5	15388.9
65°	4403.5	4341.5	4573.8	5244.9	5389.5	6076.1	8068.7	8574.6	10732.5	10541.5	9281.9
67.5°	3030.3	3040.6	3241.9	4264.1	4997.1	4935.2	4940.3	5203.6	5601.1	4160.8	3624.0
70°	1920.4	1915.2	2023.6	2746.4	4021.5	4062.8	3856.3	3778.8	3582.7	2168.2	2297.2
72.5°	1233.8	1197.7	1254.4	1517.7	2080.4	2405.6	2477.9	2524.4	2075.3	1703.6	1848.1
75°	696.9	660.8	640.1	707.2	820.8	949.9	1042.8	1073.8	1202.8	1290.6	1368.0
77.5°	211.7	191.0	232.3	309.7	407.8	547.2	665.9	686.6	810.5	913.7	991.2
80°	92.9	103.2	144.5	206.5	289.1	387.2	469.8	500.7	583.3	660.8	681.4
82.5°	56.8	61.9	98.1	139.4	201.3	273.6	335.6	345.9	428.5	490.4	505.9
85°	20.6	25.8	51.6	82.6	129.1	175.5	175.5	191.0	175.5	175.5	191.0
87.5°	0.0	0.0	5.2	10.3	10.3	15.5	20.6	20.6	25.8	31.0	36.1
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°	13313.6	13313.6	13313.6	13313.6	13313.6	13313.6	13313.6	13313.6	13313.6	13313.6	13313.6
2.5°	13349.8	13324.0	13282.7	13133.0	13117.5	13071.0	12812.9	12771.6	12812.9	12689.0	12699.3
5°	13324.0	13401.4	13091.7	12942.0	12663.2	12461.9	12229.6	12110.8	11899.2	11764.9	11914.6
7.5°	13437.5	13406.6	13019.4	12694.2	12276.0	11764.9	11357.1	11124.8	10753.1	10649.9	10727.3
10°	13396.2	13231.0	12776.8	12348.3	11558.4	11109.3	10448.5	9808.4	9457.4	9276.7	9250.9
12.5°	13339.5	13293.0	12534.1	11795.9	10964.8	10020.1	9090.9	8486.9	7913.8	7666.1	7702.2
15°	13406.6	13014.2	12079.8	11145.5	10040.7	8801.8	7800.3	7020.8	6623.3	6463.2	6463.2
17.5°	13375.6	12880.0	11863.0	10417.6	9018.6	7552.5	6452.9	5983.1	5817.9	5817.9	5864.4
20°	13391.1	12967.8	11424.2	9689.7	7810.6	6360.0	5559.8	5389.5	5461.7	5487.6	5513.4
22.5°	13478.8	12678.7	10995.8	8889.5	6690.4	5441.1	5048.8	5053.9	5183.0	5322.4	5296.5
25°	13587.2	12565.1	10474.4	8094.5	5833.4	4992.0	4868.1	4852.6	4950.7	5022.9	5033.3
27.5°	13494.3	12368.9	9942.6	7103.4	5131.4	4692.6	4666.7	4677.1	4708.0	4852.6	4806.1
30°	13798.9	12425.7	9276.7	6272.2	4744.2	4594.5	4563.5	4548.0	4594.5	4635.8	4599.6
32.5°	14175.7	12224.4	8781.1	5472.1	4553.2	4522.2	4460.2	4439.6	4465.4	4424.1	4444.8
35°	14340.9	12188.3	8135.8	4899.0	4403.5	4377.7	4341.5	4336.4	4341.5	4305.4	4274.4
37.5°	14433.9	12358.6	7397.6	4635.8	4310.5	4336.4	4253.8	4243.4	4150.5	4171.2	4186.6
40°	14593.9	12095.3	6798.8	4382.8	4253.8	4202.1	4129.9	4114.4	4052.4	4016.3	4052.4
42.5°	14361.6	12017.9	6210.3	4274.4	4171.2	4114.4	4062.8	3975.0	3954.3	3923.4	3902.7
45°	14175.7	11573.9	5683.7	4140.2	4073.1	4042.1	3944.0	3851.1	3773.7	3804.6	3758.2
47.5°	14315.1	11419.1	5162.3	4026.6	3938.9	3902.7	3804.6	3732.4	3654.9	3618.8	3608.5
50°	14872.7	11708.2	4723.5	3944.0	3825.3	3804.6	3675.6	3593.0	3520.7	3494.9	3505.2
52.5°	16204.5	12498.0	4424.1	3773.7	3716.9	3624.0	3551.7	3448.4	3402.0	3319.4	3371.0
55°	17892.6	13783.4	4346.7	3613.6	3582.7	3500.1	3402.0	3324.5	3236.8	3169.7	3154.2
56°	18434.7	14397.7	4284.7	3551.7	3500.1	3453.6	3324.5	3278.1	3138.7	3123.2	3112.9
57.5°	18873.5	14939.8	4295.1	3432.9	3381.3	3340.0	3262.6	3149.0	3056.1	2999.3	3025.1
60°	17882.3	13984.7	4098.9	3252.3	3241.9	3164.5	3056.1	3004.5	2890.9	2823.8	2808.3
62.5°	13293.0	9493.5	3324.5	3020.0	3014.8	2932.2	2808.3	2751.5	2730.9	2637.9	2637.9
65°	7655.7	5952.2	2875.4	2829.0	2787.7	2705.1	2581.2	2534.7	2483.1	2452.1	2426.3
67.5°	3267.8	3087.1	2612.1	2607.0	2560.5	2457.3	2333.4	2261.1	2194.0	2132.0	2163.0
70°	2369.5	2405.6	2359.2	2333.4	2276.6	2147.5	2039.1	1951.4	1848.1	1806.8	1837.8
72.5°	1879.1	1956.5	2023.6	2028.8	1961.7	1812.0	1693.2	1574.5	1460.9	1404.2	1430.0
75°	1424.8	1476.4	1543.5	1559.0	1460.9	1357.7	1244.1	1120.2	1032.5	965.4	975.7
77.5°	1027.3	1017.0	1078.9	1068.6	1022.1	949.9	846.6	733.1	635.0	573.0	578.2
80°	702.1	717.6	753.7	748.5	691.8	645.3	567.9	474.9	402.7	351.0	340.7
82.5°	490.4	516.2	547.2	521.4	474.9	428.5	371.7	304.6	247.8	206.5	196.2
85°	175.5	201.3	232.3	247.8	263.3	253.0	211.7	170.4	123.9	103.2	98.1
87.5°	36.1	41.3	46.5	46.5	46.5	41.3	36.1	36.1	31.0	15.5	15.5
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)