

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: P532134

Luminaire Tested: **GALN-SA7C-727-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532134
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7C-727-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34646 lumens
Efficiency: N/A
Efficacy: 91.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

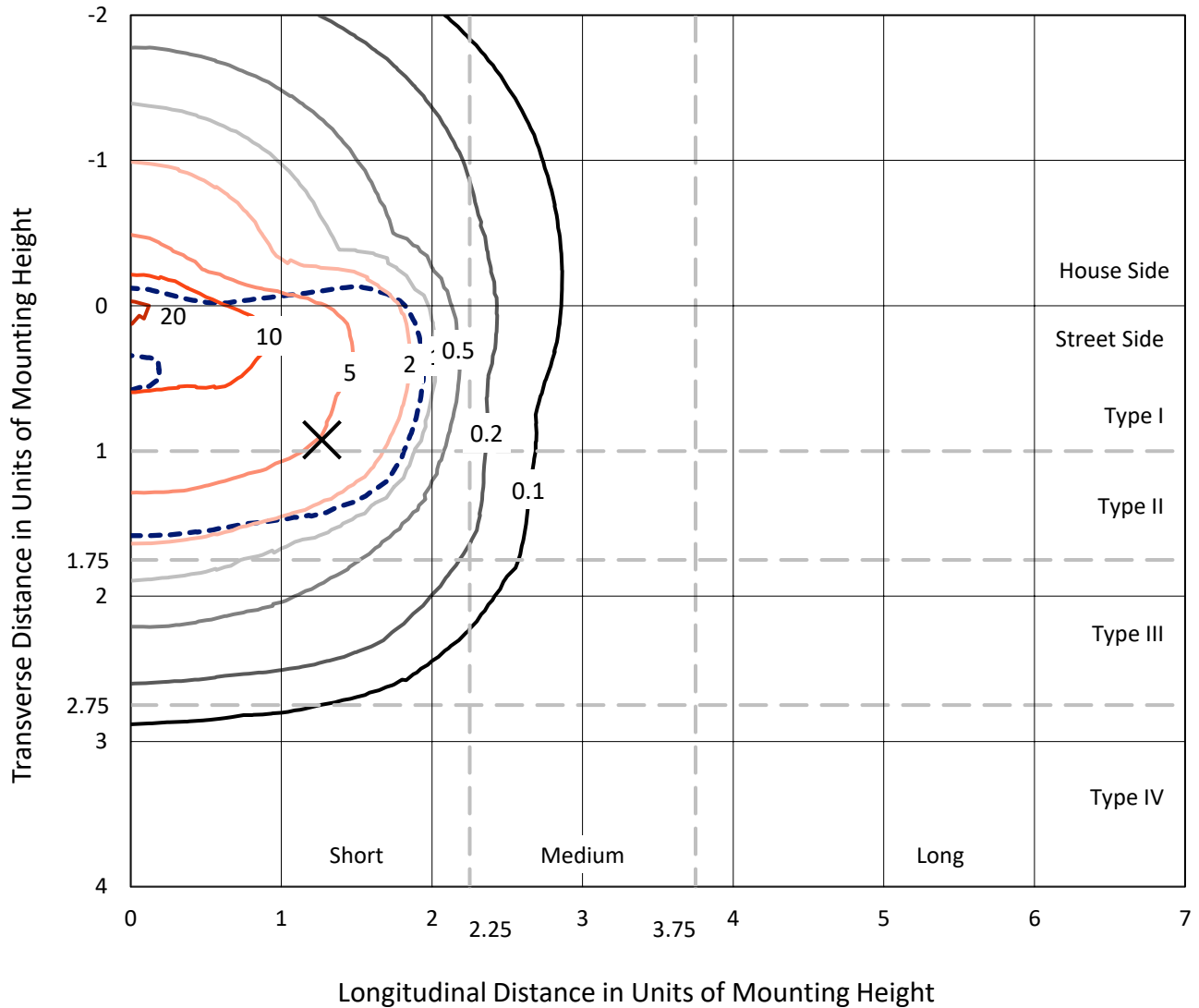
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

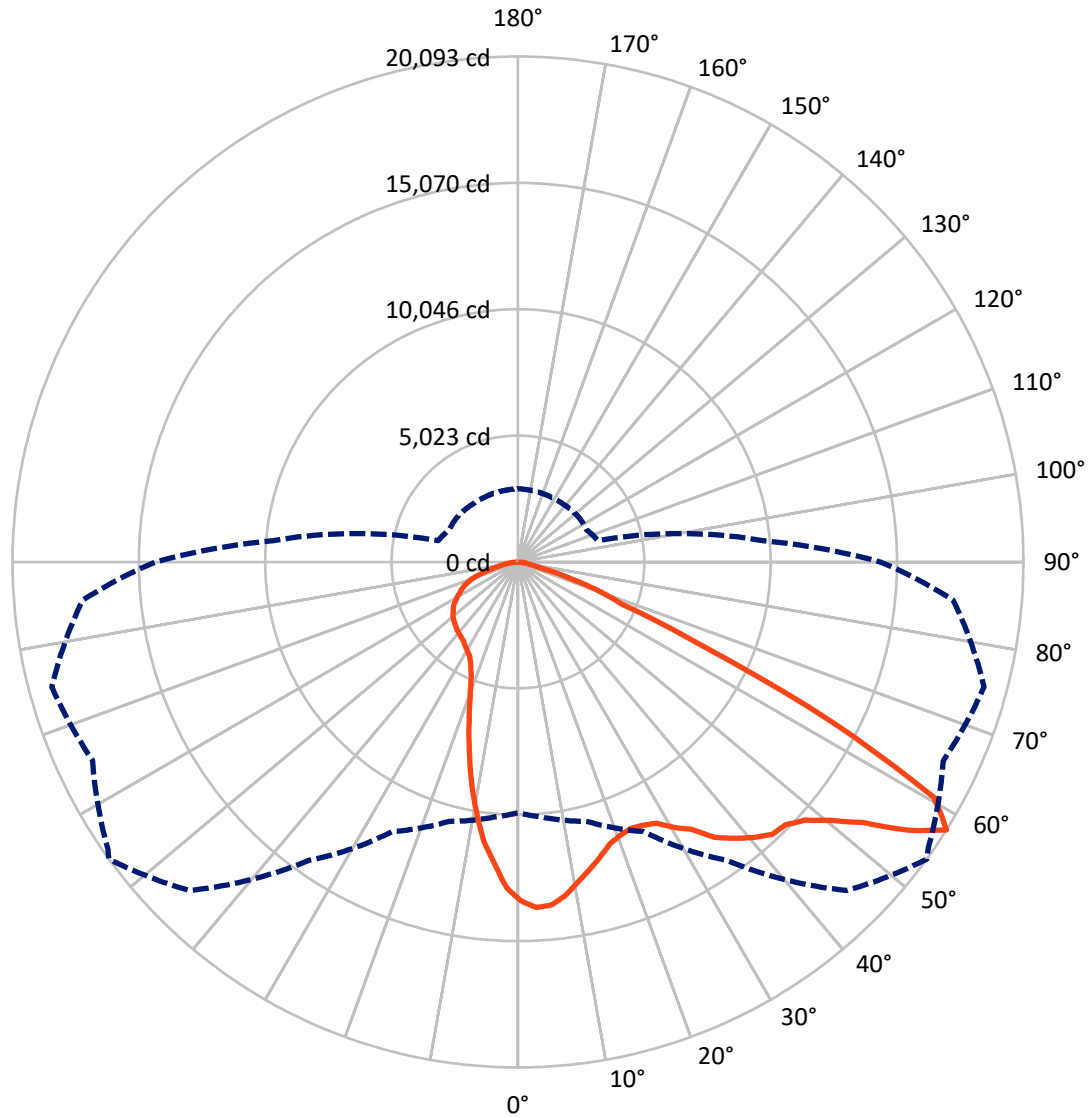
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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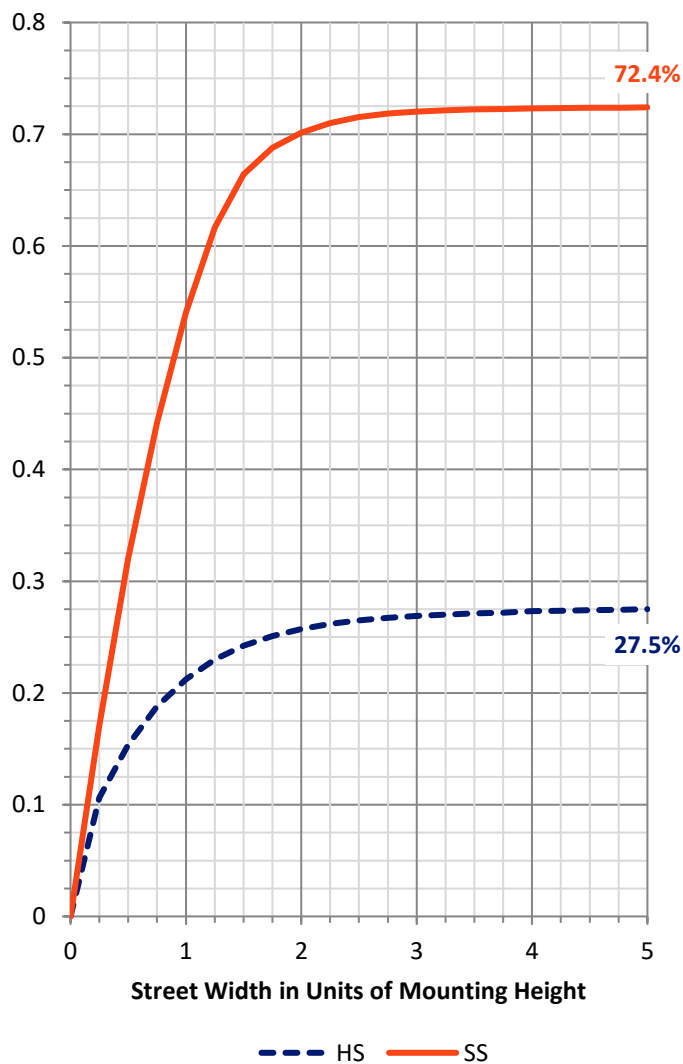
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9585.0	0.0	9585.0
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	25061.0	0.0	25061.0
	% Fixture	72.3	0.0	72.3
Total	Lumens	34646.0	0.0	34646.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1161.4	3.4
10°-20°	2689.0	7.8
20°-30°	3778.0	10.9
30°-40°	5281.7	15.2
40°-50°	7150.4	20.6
50°-60°	8709.5	25.1
60°-70°	4536.3	13.1
70°-80°	1162.4	3.4
80°-90°	177.3	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°	34646.0	100.0
0°-180°	34646.0	100.0

Coefficient of Utilization



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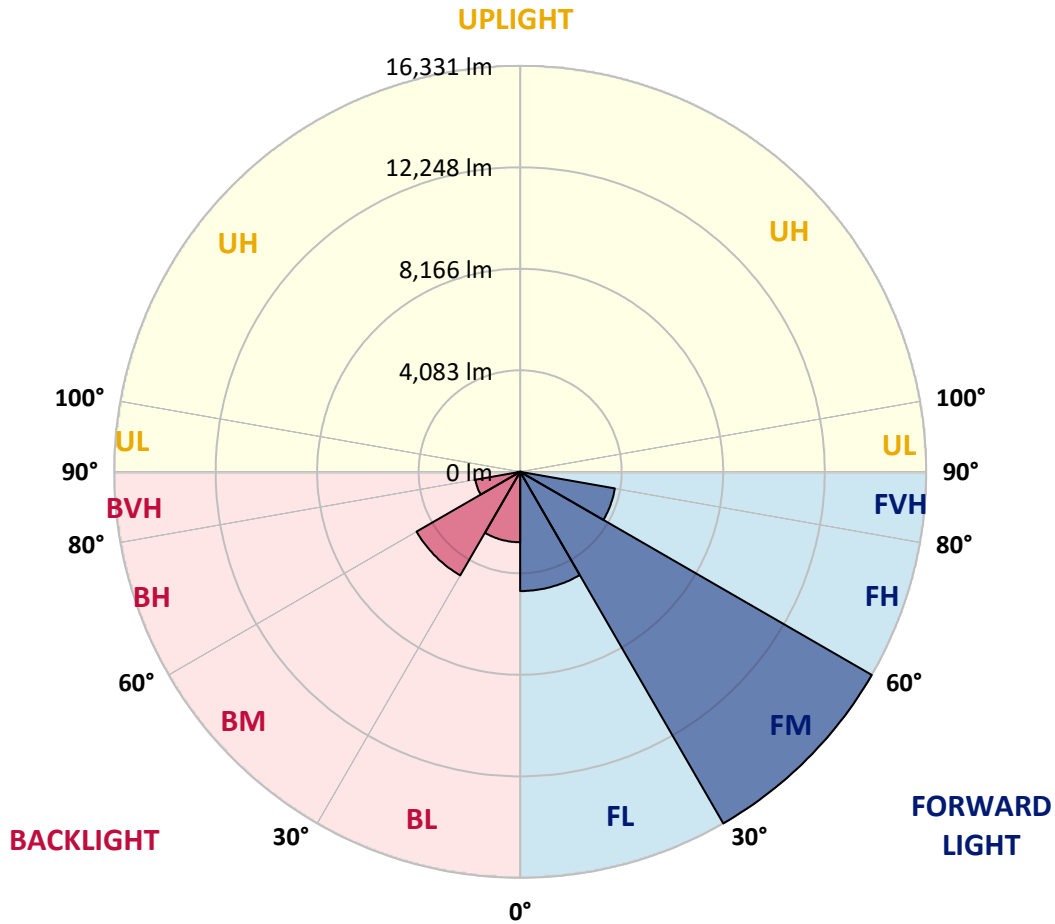
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4795.5	13.8			
FM (30°-60°)	16331.1	47.1			
FH (60°-80°)	3867.5	11.2			G2/5000
FVH (80°-90°)	67.0	0.2			G1/100
BL (0°-30°)	2832.9	8.2	B4/5000		
BM (30°-60°)	4810.6	13.9	B3/5000		
BH (60°-80°)	1831.2	5.3	B3/2500		G3/2500
BVH (80°-90°)	110.3	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°	54°	55°	65°	75°	85°
0°	13466.5	13466.5	13466.5	13466.5	13466.5	13466.5	13466.5	13466.5	13466.5	13466.5	13466.5
2.5°	13849.5	13796.0	13804.9	13876.2	13787.1	13751.5	13751.5	13577.8	13591.2	13471.0	13439.8
5°	13528.8	13404.2	13488.8	13595.6	13613.5	13649.1	13707.0	13662.4	13537.8	13408.6	13199.3
7.5°	12691.6	12803.0	12834.1	12909.9	13070.2	13217.1	13399.7	13275.0	13270.6	13141.4	13016.7
10°	11956.9	11890.1	12059.3	12170.6	12437.8	12682.7	12963.3	12949.9	13016.7	12869.8	12656.0
12.5°	11226.5	11173.1	11253.3	11507.1	11881.2	12237.4	12571.4	12446.7	12803.0	12776.3	12317.6
15°	10451.7	10491.8	10607.5	10843.6	11333.4	11760.9	12184.0	12188.4	12504.6	12611.5	11996.9
17.5°	9908.4	9863.9	10010.8	10362.6	10799.0	11311.2	11792.1	11890.1	12375.5	12437.8	11899.0
20°	9503.1	9565.5	9757.0	9935.1	10438.3	11057.3	11600.6	11636.2	12348.7	12518.0	11743.1
22.5°	9405.2	9369.6	9431.9	9721.4	10135.5	10807.9	11498.2	11631.8	12344.3	12491.3	11449.2
25°	9302.8	9418.5	9414.1	9703.5	10006.4	10607.5	11582.8	11729.8	12580.3	12629.3	11489.3
27.5°	9534.3	9521.0	9645.7	9667.9	10042.0	10661.0	11760.9	11872.3	12972.2	12932.1	11520.5
30°	9765.9	9699.1	9774.8	10037.5	10211.2	10968.3	12250.8	12241.9	13479.9	13453.1	11618.4
32.5°	10050.9	10019.7	10068.7	10300.3	10594.2	11377.9	12664.9	12927.7	13996.4	14165.7	11956.9
35°	10104.3	10233.5	10349.3	10661.0	11079.6	12041.5	13444.2	13662.4	14593.2	15123.1	12602.6
37.5°	10442.8	10491.8	10763.4	11315.6	11698.6	12927.7	13938.5	14076.6	15136.5	15737.6	13283.9
40°	10803.5	10861.4	11271.1	11850.0	12375.5	13506.6	14401.7	14446.2	15310.1	16209.7	13729.2
42.5°	11293.3	11346.8	11752.0	12477.9	13181.5	14000.9	14811.4	14860.4	15296.8	16753.0	14437.3
45°	11801.0	11930.1	12406.6	13230.5	13862.8	14579.8	14904.9	15105.3	15421.5	17238.4	15011.8
47.5°	12513.5	12633.8	13025.6	13831.7	14570.9	15087.5	15336.9	15532.8	15719.8	17661.4	15381.4
50°	13270.6	13292.8	13769.3	14499.6	15042.9	15661.9	16142.9	16209.7	16111.7	18151.3	16009.3
52.5°	13827.2	13898.5	14268.1	14980.6	15791.1	16552.6	17211.7	17282.9	17091.4	18333.9	16223.0
55°	12905.4	12865.3	13466.5	14415.0	16294.3	17879.6	18837.1	18890.5	17803.9	18899.4	16922.2
57.5°	9975.2	10166.7	10678.8	11823.3	14477.4	18467.5	20092.9	19901.4	18658.9	19184.4	17367.5
60°	7249.8	7205.3	7548.2	8314.1	10910.4	15915.8	18997.4	19193.3	17959.8	17291.8	14321.5
62.5°	5905.0	5842.6	5869.3	5896.0	7040.5	10563.0	14063.2	14058.8	13831.7	12428.9	9659.0
65°	4720.4	4867.4	4880.7	5081.1	5228.1	6310.2	8149.4	8585.8	7476.9	6132.1	4448.8
67.5°	3558.1	3504.7	3682.8	4395.3	4671.4	4555.6	4448.8	4497.7	3197.4	2306.8	2173.2
70°	2097.5	2075.2	2288.9	3063.8	3847.6	3620.5	3353.3	3357.7	2195.4	1612.1	1794.6
72.5°	1148.9	1144.5	1189.0	1554.2	2186.5	2271.1	2012.9	2075.2	1309.2	1304.8	1402.8
75°	641.3	627.9	614.5	685.8	788.2	832.8	850.6	859.5	899.5	1006.4	1046.5
77.5°	236.0	227.1	227.1	262.7	334.0	418.6	529.9	538.8	636.8	730.3	770.4
80°	80.2	89.1	120.2	164.8	222.7	298.4	360.7	369.6	449.8	512.1	525.5
82.5°	49.0	53.4	80.2	115.8	160.3	209.3	267.2	271.6	334.0	374.1	391.9
85°	22.3	26.7	44.5	71.3	102.4	138.0	142.5	142.5	138.0	142.5	133.6
87.5°	0.0	0.0	8.9	8.9	8.9	13.4	17.8	13.4	22.3	26.7	26.7
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°	13466.5	13466.5	13466.5	13466.5	13466.5	13466.5	13466.5	13466.5	13466.5	13466.5	13466.5
2.5°	13346.3	13297.3	13145.9	13012.3	12972.2	12794.1	12531.3	12562.5	12371.0	12460.1	12366.6
5°	13163.7	12998.9	12611.5	12446.7	12014.8	11818.8	11685.2	11351.2	11195.4	11164.2	11030.6
7.5°	12696.1	12593.7	12108.3	11663.0	11204.3	10812.4	10309.2	9966.3	9721.4	9654.6	9458.6
10°	12326.5	12099.4	11426.9	10750.0	10095.4	9414.1	8759.5	8247.3	7998.0	7708.5	7610.5
12.5°	11961.3	11618.4	10710.0	9841.6	8995.5	8136.0	7343.3	6719.9	6176.6	6047.5	6002.9
15°	11734.2	11137.5	10068.7	9022.2	7819.8	6697.6	5905.0	5495.3	5161.3	5023.2	5121.2
17.5°	11435.8	10741.1	9454.2	8060.3	6737.7	5704.6	5041.0	4787.2	4667.0	4680.3	4640.2
20°	11061.8	10367.1	8648.1	7187.5	5771.4	4947.5	4569.0	4475.5	4493.3	4524.5	4511.1
22.5°	10794.6	9912.8	8064.8	6296.8	4987.6	4528.9	4373.1	4306.3	4364.1	4390.9	4368.6
25°	10589.7	9525.4	7356.7	5508.6	4533.4	4292.9	4221.6	4217.2	4306.3	4341.9	4319.6
27.5°	10402.7	9164.7	6653.1	4907.4	4230.5	4110.3	4088.0	4141.5	4199.4	4235.0	4266.2
30°	10291.4	8888.6	5994.0	4404.2	4079.1	4021.2	3981.2	4030.2	4061.3	4097.0	4079.1
32.5°	10398.2	8692.7	5357.2	4119.2	3954.4	3896.6	3950.0	3918.8	3972.3	4003.4	3954.4
35°	10732.2	8519.0	4903.0	3967.8	3811.9	3834.2	3843.1	3829.8	3852.0	3825.3	3883.2
37.5°	11061.8	8456.6	4484.4	3838.7	3745.1	3745.1	3736.2	3709.5	3754.1	3745.1	3771.9
40°	11480.4	8496.7	4128.1	3700.6	3682.8	3673.9	3638.3	3633.8	3616.0	3620.5	3629.4
42.5°	11845.5	8585.8	3923.3	3611.6	3624.9	3642.7	3575.9	3522.5	3544.8	3500.2	3500.2
45°	12233.0	8665.9	3740.7	3549.2	3535.8	3531.4	3478.0	3446.8	3429.0	3433.4	3473.5
47.5°	12843.1	8781.7	3602.6	3464.6	3473.5	3406.7	3393.3	3353.3	3371.1	3397.8	3402.3
50°	13275.0	9026.7	3495.8	3366.6	3397.8	3353.3	3273.1	3255.3	3255.3	3299.8	3290.9
52.5°	13577.8	9369.6	3393.3	3259.7	3273.1	3237.5	3210.8	3170.7	3144.0	3206.3	3237.5
55°	14504.1	9939.6	3366.6	3170.7	3166.2	3130.6	3081.6	3041.5	3028.2	3037.1	3099.4
57.5°	14415.0	9761.4	3282.0	3014.8	3005.9	2956.9	2907.9	2894.6	2890.1	2899.0	2916.9
60°	11703.0	7209.7	2930.2	2836.7	2823.3	2814.4	2765.4	2712.0	2685.3	2712.0	2689.7
62.5°	7744.1	4827.3	2582.9	2622.9	2631.8	2609.6	2529.4	2476.0	2484.9	2516.1	2467.1
65°	3803.0	2836.7	2342.4	2449.3	2458.2	2395.8	2320.1	2257.8	2226.6	2253.3	2231.1
67.5°	2173.2	2168.7	2146.4	2257.8	2253.3	2191.0	2070.7	2017.3	1963.9	1972.8	1959.4
70°	1843.6	1879.3	1923.8	1990.6	1986.1	1914.9	1772.4	1732.3	1656.6	1647.7	1625.4
72.5°	1451.7	1514.1	1612.1	1661.0	1621.0	1531.9	1438.4	1371.6	1304.8	1264.7	1278.1
75°	1077.7	1166.7	1220.2	1251.4	1189.0	1140.0	1064.3	984.2	904.0	868.4	855.0
77.5°	783.8	810.5	859.5	881.7	841.7	792.7	748.1	668.0	592.3	543.3	529.9
80°	547.7	565.6	601.2	601.2	601.2	578.9	521.0	440.9	391.9	347.4	338.4
82.5°	383.0	400.8	436.4	418.6	414.1	387.4	351.8	289.5	236.0	204.8	195.9
85°	133.6	147.0	178.1	213.8	227.1	222.7	200.4	160.3	124.7	102.4	93.5
87.5°	31.2	31.2	35.6	31.2	31.2	35.6	31.2	31.2	31.2	22.3	17.8
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)