

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: P650978

Luminaire Tested: **GALN-SA6C-840-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P650978
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-7)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6C-840-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28070.9 lumens
Efficiency: N/A
Efficacy: 87.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G3

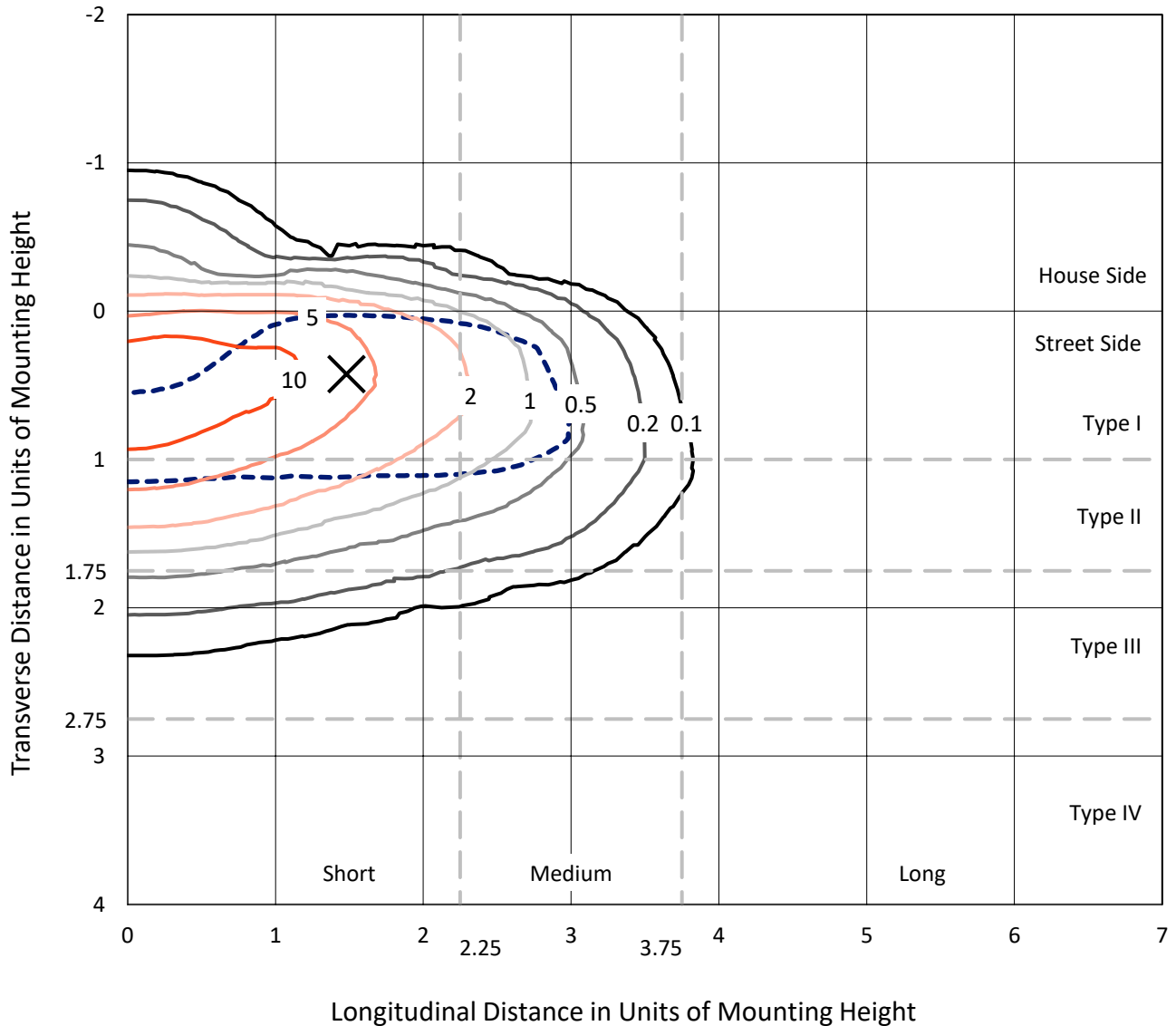
Input Watts (W): 321
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

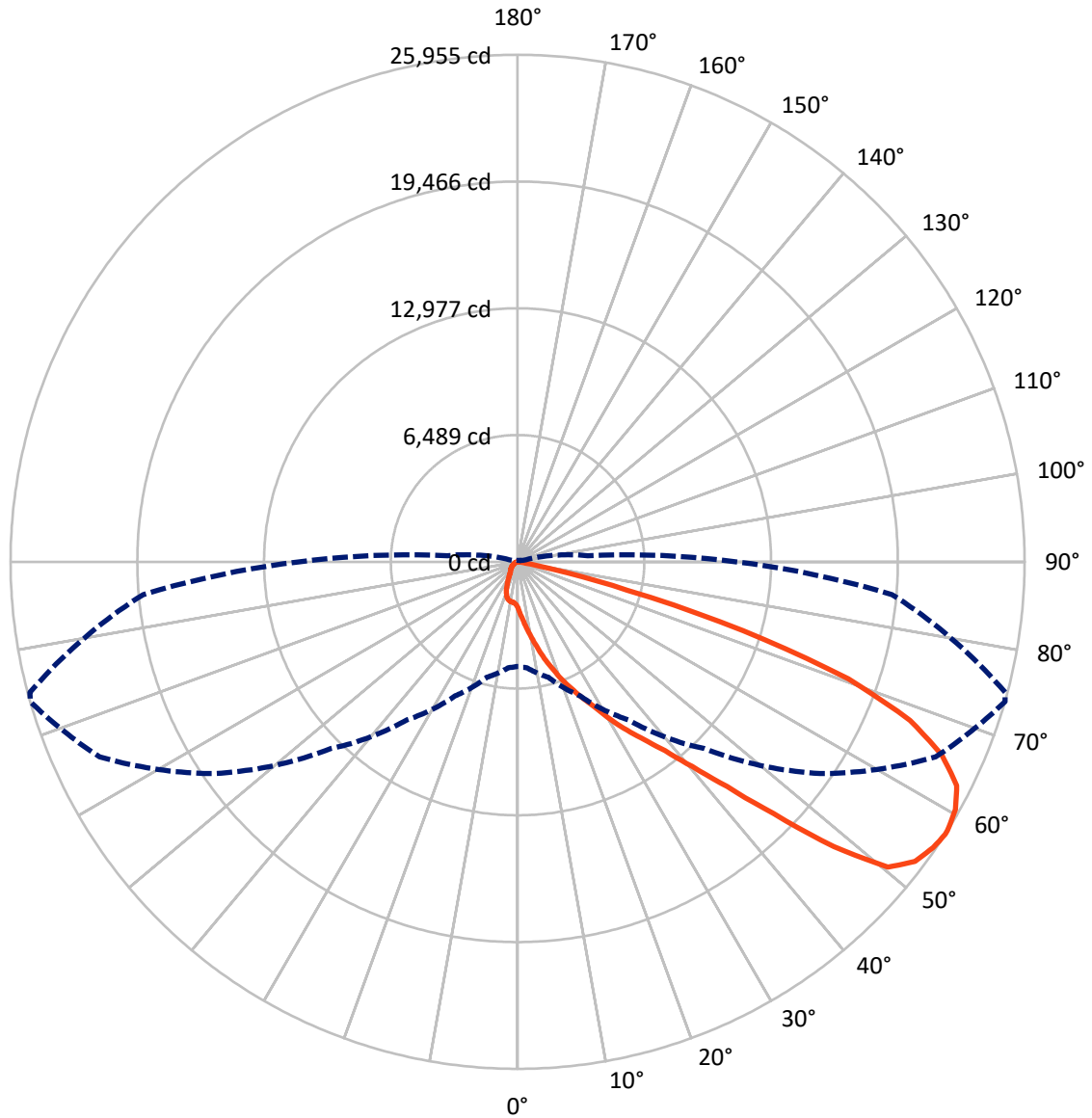
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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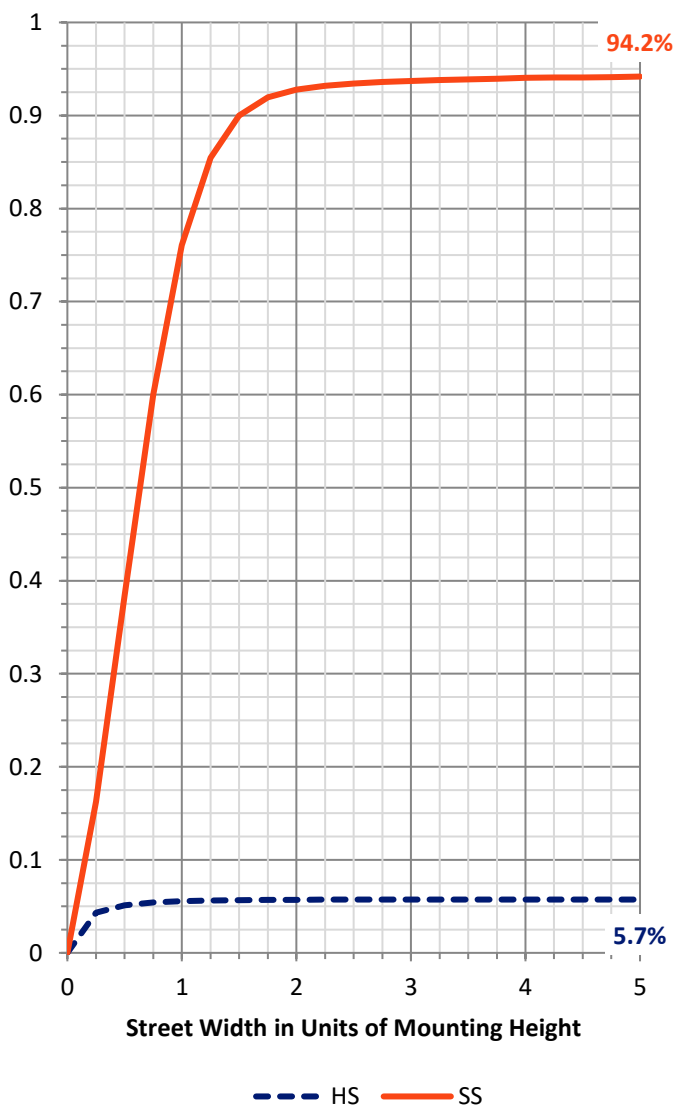
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1619.0	0.0	1619.0
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	26451.9	0.0	26451.9
	% Fixture	94.2	0.0	94.2
Total	Lumens	28070.9	0.0	28070.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	283.8	1.0
10°-20°	1118.5	4.0
20°-30°	2393.2	8.5
30°-40°	4398.8	15.7
40°-50°	6743.4	24.0
50°-60°	7133.6	25.4
60°-70°	4658.4	16.6
70°-80°	1272.8	4.5
80°-90°	68.5	0.2
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°	28070.9	100.0
0°-180°	28070.9	100.0

Coefficient of Utilization

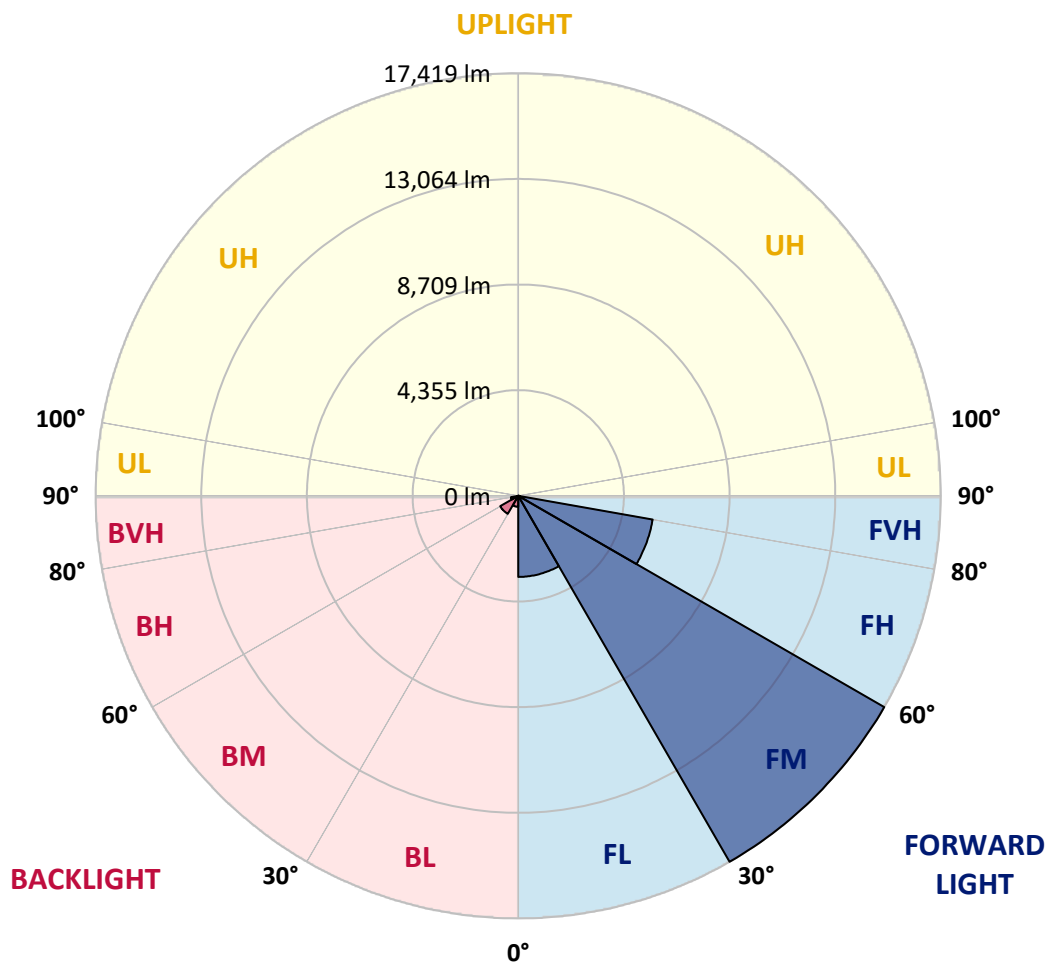


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3343.2	11.9			
FM (30°-60°)	17418.5	62.1			
FH (60°-80°)	5627.3	20.0			G3/7500
FVH (80°-90°)	62.9	0.2			G1/100
BL (0°-30°)	452.2	1.6	B1/500		
BM (30°-60°)	857.2	3.1	B1/1000		
BH (60°-80°)	304.0	1.1	B1/500		G1/500
BVH (80°-90°)	5.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	2350.9	2350.9	2350.9	2350.9	2350.9	2350.9	2350.9	2350.9	2350.9	2350.9	2350.9
2.5°	3440.1	3409.1	3347.1	3325.7	3234.7	3093.2	2969.2	2802.5	2670.7	2657.1	2498.2
5°	4606.8	4537.0	4508.0	4368.5	4149.4	3944.0	3591.2	3323.8	3015.7	2992.4	2672.6
7.5°	5730.9	5634.0	5604.9	5473.1	5217.3	4893.7	4436.3	3949.8	3461.4	3416.8	2907.2
10°	6544.9	6558.5	6506.1	6418.9	6211.5	5882.1	5318.1	4653.3	3957.6	3901.4	3170.7
12.5°	7128.3	7126.4	7136.1	7134.1	7023.6	6773.6	6180.6	5415.0	4504.1	4393.6	3473.1
15°	7508.2	7514.0	7543.0	7643.8	7655.5	7500.4	7006.2	6143.8	5137.8	5000.2	3800.6
17.5°	7891.9	7932.6	7979.1	8074.1	8159.4	8097.3	7748.5	6903.4	5711.6	5608.8	4151.3
20°	8525.6	8581.8	8554.7	8612.8	8657.4	8663.2	8393.9	7605.1	6407.3	6234.8	4552.6
22.5°	9539.3	9537.4	9467.6	9362.9	9275.7	9271.8	9027.6	8326.1	7039.2	6872.5	4955.7
25°	10820.3	10826.2	10690.5	10392.1	10174.9	9909.4	9628.4	8957.8	7715.5	7510.1	5380.1
27.5°	12289.4	12252.6	12047.2	11636.2	11206.0	10752.5	10347.4	9692.4	8432.6	8262.1	5866.6
30°	13609.2	13595.7	13355.3	12853.4	12287.5	11832.0	11244.8	10613.0	9361.0	9151.7	6411.2
32.5°	14838.0	14857.4	14524.1	14004.6	13458.1	12932.9	12312.7	11492.9	10271.9	9975.4	7004.3
35°	15797.3	15816.8	15471.8	15039.6	14477.5	14041.4	13450.4	12430.9	11171.2	10921.1	7686.5
37.5°	16309.0	16334.2	16134.6	15808.9	15458.2	15239.2	14688.7	13638.3	12264.2	12113.1	8492.7
40°	16405.9	16435.0	16347.8	16260.6	16241.1	16398.2	16237.3	15060.9	13779.8	13543.4	9694.3
42.5°	16115.2	16153.9	16192.7	16386.5	16781.9	17357.5	17917.6	16991.2	15731.5	15413.6	11163.3
45°	15351.6	15347.7	15500.8	16002.8	16888.5	18117.2	19673.5	19408.0	18390.5	18012.6	13239.1
47.5°	14045.3	14025.9	14357.4	15072.5	16452.4	18256.8	21105.8	22342.3	21784.1	21435.2	15469.9
50°	12054.9	12149.8	12671.3	13669.4	15369.0	17834.3	21547.7	24266.8	24569.1	24198.9	17272.2
52.5°	9723.4	9719.5	10537.4	11892.1	13764.3	16904.0	21239.5	24615.6	25474.2	25191.3	18159.9
55°	7196.1	7246.5	8097.3	9463.7	11680.8	15206.2	20233.6	24257.1	25819.2	25619.6	18745.2
57°	5353.0	5442.1	6124.3	7570.2	9866.8	13525.9	18894.4	23615.6	25954.9	25846.4	19231.7
57.5°	4996.4	5000.2	5665.1	6979.0	9335.8	12880.5	18510.7	23348.2	25951.0	25890.9	19311.1
60°	3075.7	3172.7	3631.9	4717.3	6833.7	10052.9	15938.8	21811.3	25749.4	25836.7	19650.3
62.5°	1841.2	1881.9	2180.4	2843.2	4405.2	7337.6	13043.3	19844.1	25224.2	25489.7	19627.0
65°	1184.2	1193.9	1329.5	1721.0	2754.0	4959.5	10051.0	17245.1	23865.6	24354.0	18859.5
67.5°	914.8	930.3	984.6	1129.9	1597.0	3089.3	7108.9	14471.7	21667.9	22297.7	16999.0
70°	812.1	819.8	839.2	885.7	1056.3	1744.3	4422.7	11304.9	17968.0	18146.3	13303.0
72.5°	662.8	684.2	744.2	759.8	837.2	1089.2	2461.4	7587.6	12072.4	12117.0	7442.3
75°	513.6	517.5	606.6	651.2	705.4	750.0	1098.9	3825.8	5798.8	5488.7	2868.4
77.5°	383.7	401.2	441.9	498.1	575.6	536.8	492.2	1442.0	1800.5	1767.5	833.3
80°	246.2	255.8	308.1	374.1	447.7	350.8	277.1	422.5	395.4	407.0	199.7
82.5°	124.0	126.0	197.7	304.3	284.9	176.4	174.4	172.5	147.3	145.3	93.0
85°	13.5	29.1	127.9	174.4	127.9	58.1	81.4	79.5	77.5	79.5	54.2
87.5°	1.9	1.9	21.3	25.2	17.4	19.3	23.3	25.2	31.0	29.1	23.3
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°	2350.9	2350.9	2350.9	2350.9	2350.9	2350.9	2350.9	2350.9	2350.9	2350.9	2350.9
2.5°	2420.7	2343.1	2199.7	2062.1	1959.4	1893.5	1808.2	1777.2	1732.6	1726.8	1705.5
5°	2525.4	2378.0	2128.0	1930.3	1771.4	1651.2	1546.6	1459.4	1389.6	1374.1	1381.8
7.5°	2674.5	2455.6	2106.7	1837.3	1616.4	1410.9	1244.3	1141.6	1067.9	1040.7	1044.6
10°	2843.2	2558.2	2102.8	1738.4	1401.3	1149.3	967.1	876.0	833.3	817.9	800.5
12.5°	3042.8	2676.5	2093.2	1585.4	1164.8	916.7	786.8	732.6	691.9	680.3	680.3
15°	3267.6	2802.5	2046.7	1395.4	945.8	757.8	670.6	628.0	614.4	602.7	602.7
17.5°	3502.1	2926.5	1949.7	1160.9	784.9	649.3	595.0	569.8	550.4	536.8	536.8
20°	3769.6	3048.6	1794.7	953.5	662.8	579.4	536.8	507.8	492.2	480.6	476.8
22.5°	4023.5	3147.4	1597.0	783.0	577.5	521.3	482.6	451.5	436.1	430.3	430.3
25°	4287.1	3207.6	1358.6	647.3	527.1	472.9	430.3	405.0	391.5	387.6	385.7
27.5°	4542.9	3242.4	1149.3	565.9	480.6	428.3	387.6	368.3	354.6	350.8	352.7
30°	4853.0	3248.2	945.8	507.8	439.9	385.7	348.8	331.4	323.7	319.7	317.8
32.5°	5166.9	3240.5	794.6	472.9	401.2	348.8	317.8	304.3	298.5	292.7	292.7
35°	5519.7	3199.8	676.4	438.0	364.3	317.8	290.7	279.0	271.3	265.5	263.6
37.5°	5957.6	3178.5	608.5	399.2	331.4	288.8	263.6	252.0	246.2	238.4	236.4
40°	6647.7	3273.4	587.3	364.3	298.5	261.6	238.4	224.8	217.1	209.3	207.4
42.5°	7508.2	3440.1	552.4	329.5	269.4	236.4	213.2	197.7	184.1	174.4	170.6
45°	8622.5	3659.1	498.1	292.7	244.2	209.3	188.0	168.6	151.2	143.4	141.5
47.5°	9791.3	3870.4	449.6	263.6	217.1	186.0	162.8	141.5	126.0	120.2	118.2
50°	10508.3	3913.0	418.6	230.6	189.9	160.9	137.6	118.2	108.6	102.7	102.7
52.5°	10835.9	3845.1	376.0	201.6	164.8	141.5	118.2	102.7	96.9	93.0	91.1
55°	11064.5	3740.5	319.7	174.4	141.5	120.2	104.6	93.0	85.3	81.4	79.5
57°	11198.3	3599.1	277.1	153.1	122.1	104.6	93.0	83.3	75.6	67.9	67.9
57.5°	11204.1	3544.7	265.5	151.2	116.3	100.8	91.1	81.4	71.7	63.9	62.0
60°	11031.6	3172.7	213.2	127.9	93.0	85.3	75.6	63.9	50.4	42.6	40.7
62.5°	10477.3	2699.8	176.4	108.6	75.6	65.9	54.2	48.4	34.9	25.2	25.2
65°	9638.1	2190.0	151.2	87.2	62.0	48.4	36.8	34.9	21.3	11.6	9.7
67.5°	8424.9	1705.5	127.9	71.7	52.3	34.9	25.2	23.3	11.6	3.9	0.0
70°	6418.9	1162.9	106.6	58.1	38.8	25.2	17.4	13.5	7.7	1.9	0.0
72.5°	3699.8	639.6	89.1	44.6	29.1	19.3	13.5	7.7	7.7	0.0	0.0
75°	1321.8	275.2	67.9	33.0	23.3	15.5	9.7	3.9	5.8	1.9	0.0
77.5°	420.6	147.3	44.6	25.2	19.3	11.6	7.7	3.9	3.9	1.9	0.0
80°	124.0	77.5	27.2	21.3	13.5	9.7	5.8	1.9	3.9	1.9	0.0
82.5°	67.9	38.8	21.3	15.5	13.5	7.7	5.8	1.9	1.9	1.9	0.0
85°	34.9	23.3	17.4	15.5	13.5	7.7	5.8	1.9	0.0	1.9	1.9
87.5°	19.3	17.4	17.4	15.5	13.5	9.7	5.8	1.9	0.0	0.0	0.0
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)