

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: P533849

Luminaire Tested: **GALN-SA9B-740-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533849
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9B-740-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30167 lumens
Efficiency: N/A
Efficacy: 82.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

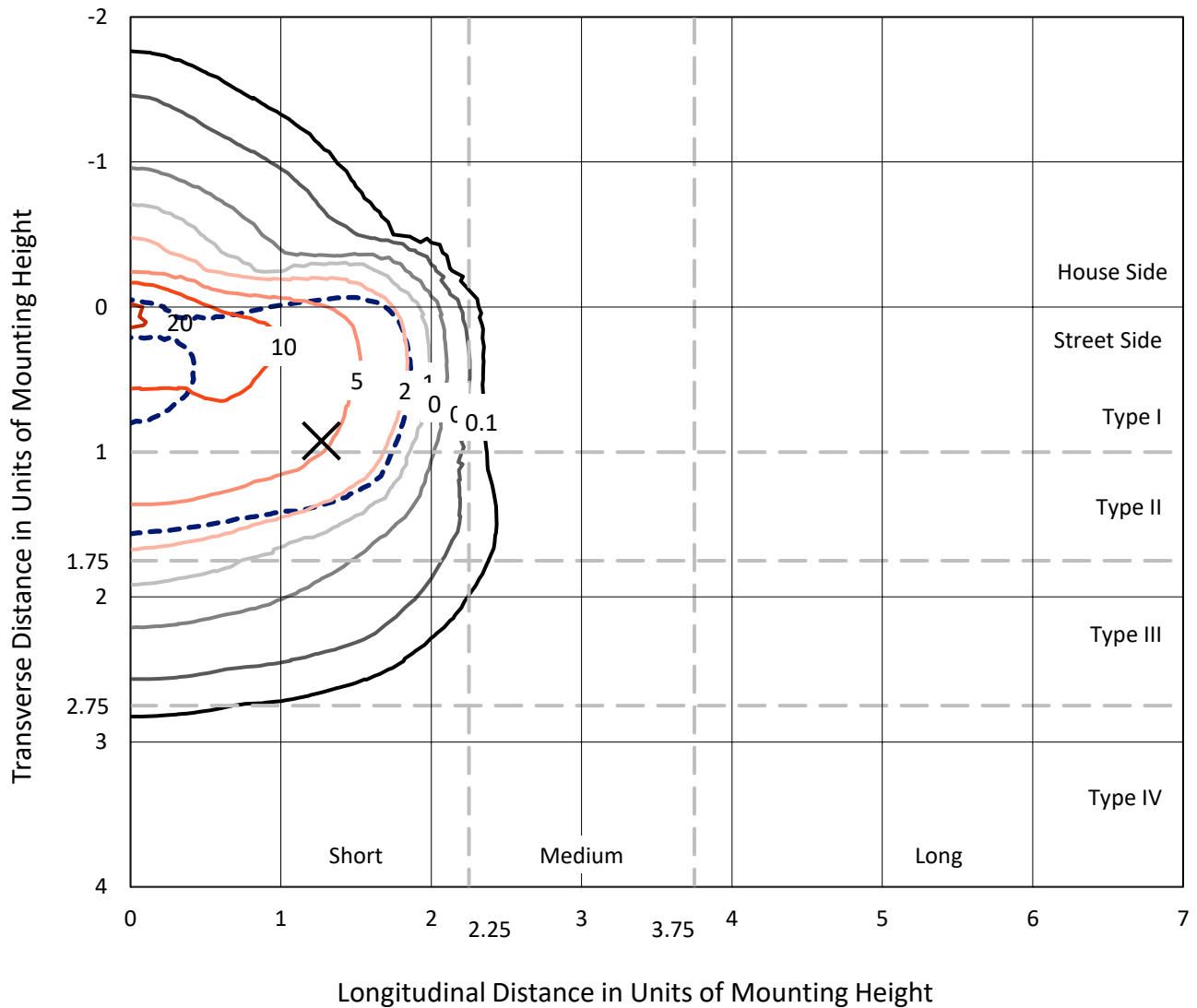
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

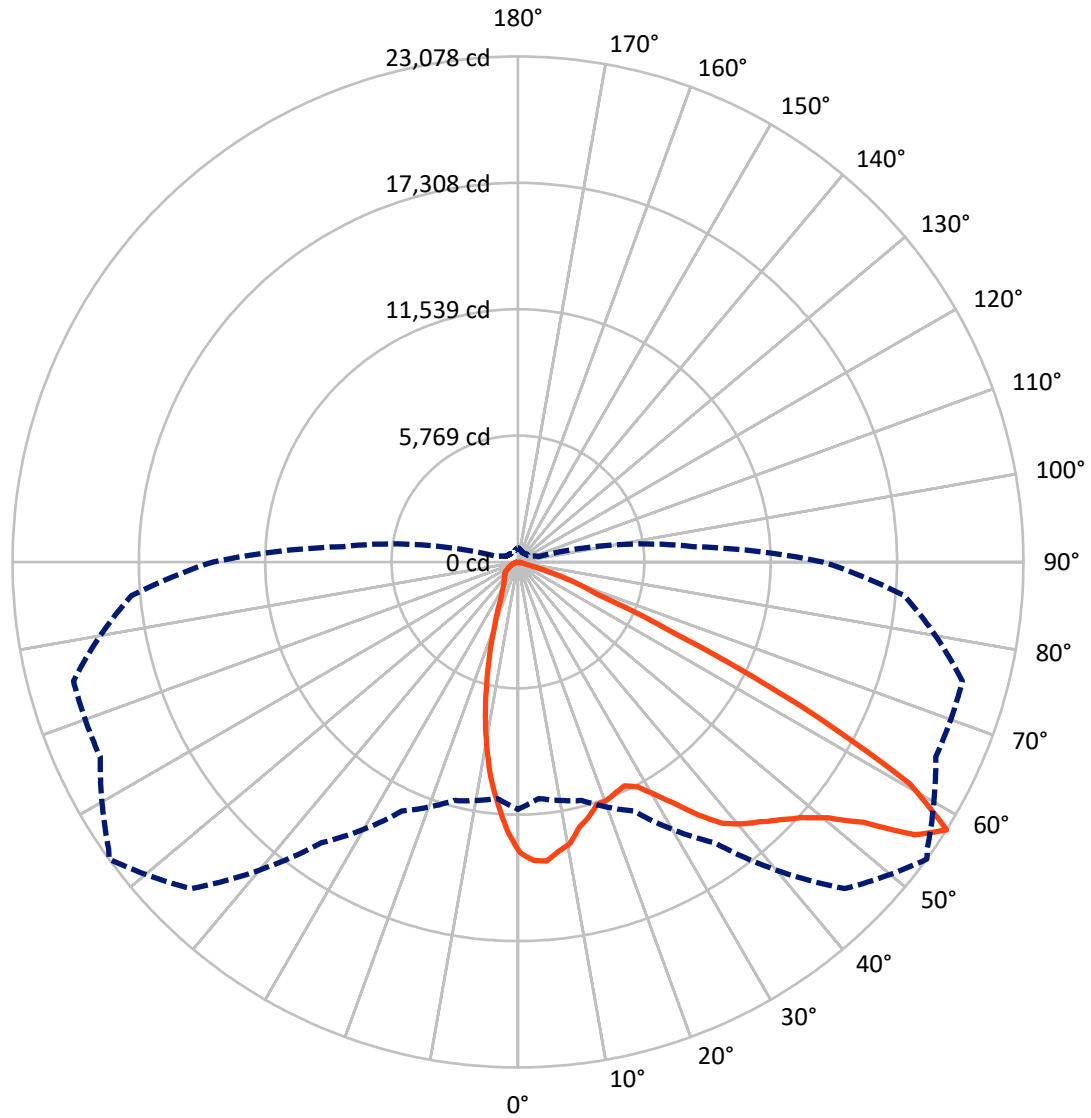
✕ Max cd
 - - - 1/2 Max cd



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

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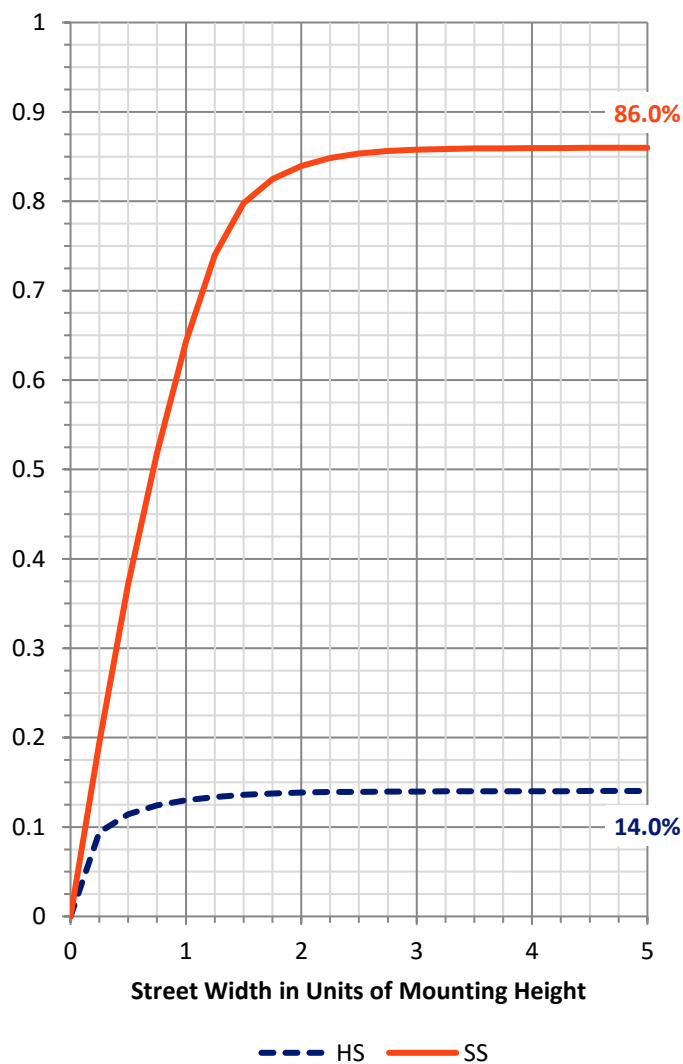
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4263.1	0.0	4263.1
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	25903.9	0.0	25903.9
	% Fixture	85.9	0.0	85.9
Total	Lumens	30167.0	0.0	30167.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1112.1	3.7
10°-20°	2374.2	7.9
20°-30°	3146.3	10.4
30°-40°	4572.4	15.2
40°-50°	6780.3	22.5
50°-60°	8478.5	28.1
60°-70°	3344.4	11.1
70°-80°	333.0	1.1
80°-90°	25.9	0.1
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°	30167.0	100.0
0°-180°	30167.0	100.0

Coefficient of Utilization



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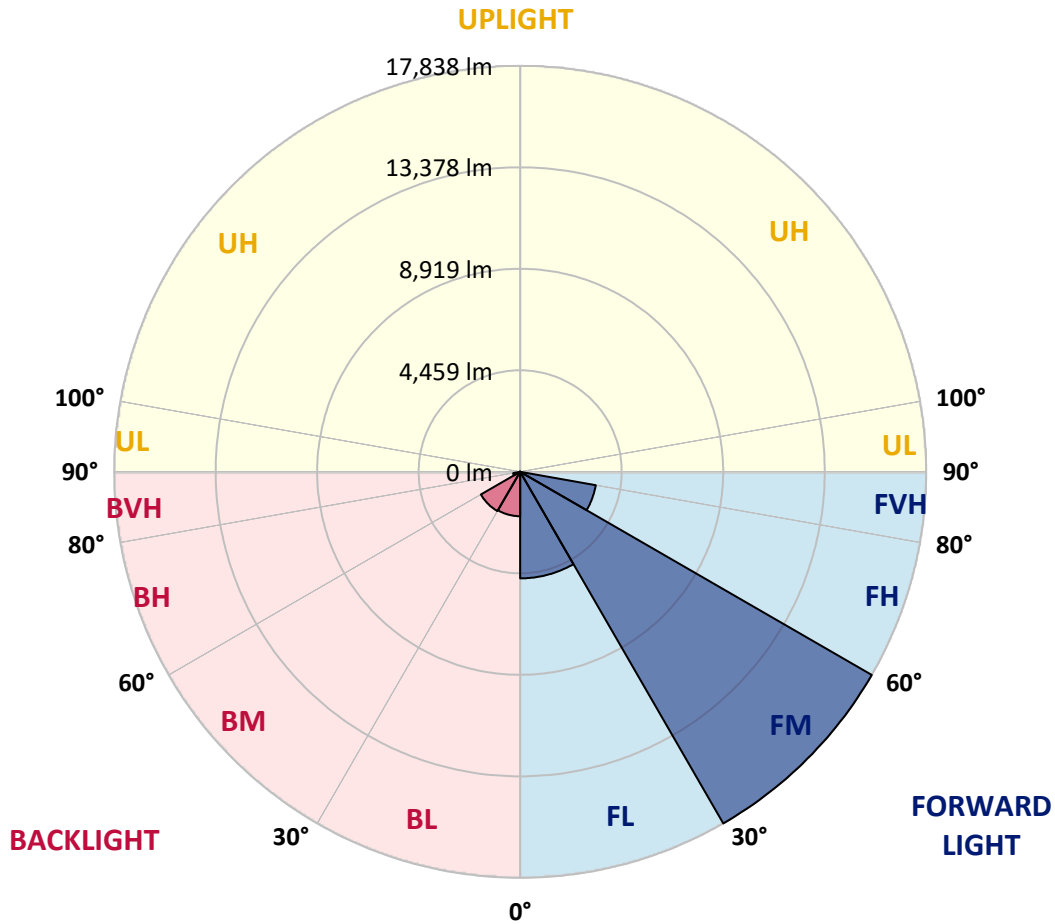
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4682.8	15.5			
FM (30°-60°)	17837.7	59.1			
FH (60°-80°)	3371.7	11.2			G2/5000
FVH (80°-90°)	11.8	0.0			G1/100
BL (0°-30°)	1949.7	6.5	B3/2500		
BM (30°-60°)	1993.5	6.6	B2/2500		
BH (60°-80°)	305.7	1.0	B1/500		G1/500
BVH (80°-90°)	14.1	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	13289.0	13289.0	13289.0	13289.0	13289.0	13289.0	13289.0	13289.0	13289.0	13289.0	13289.0
2.5°	14063.1	13917.2	13928.5	13878.0	13810.7	13861.1	13642.4	13692.9	13687.2	13389.9	13193.6
5°	13709.7	13866.8	13704.1	13838.7	13709.7	13849.9	13715.3	13614.3	13451.6	13232.9	12868.3
7.5°	13109.5	12958.0	13002.9	13171.2	13199.2	13513.4	13345.1	13474.1	13406.8	12974.8	12475.6
10°	11903.4	11869.8	12094.1	12318.5	12593.4	12930.0	13059.0	12986.1	12935.6	12772.9	12105.4
12.5°	10977.8	11073.2	11067.6	11437.8	11903.4	12094.1	12430.7	12419.5	12700.0	12397.1	11757.6
15°	10097.1	10147.6	10383.2	10613.2	11129.3	11673.4	12088.5	12144.6	12481.2	12268.0	11488.3
17.5°	9558.6	9485.7	9670.8	9945.7	10473.0	11185.4	11645.4	11780.0	12240.0	12195.1	11179.8
20°	9025.7	9025.7	9177.2	9502.5	9985.0	10787.1	11606.1	11566.8	12240.0	12111.0	10848.8
22.5°	8846.2	8936.0	8975.2	9222.1	9794.2	10484.2	11437.8	11510.7	12335.4	12071.7	10703.0
25°	9093.0	8975.2	8986.5	9182.8	9721.3	10338.4	11314.4	11477.1	12509.2	12268.0	10585.2
27.5°	9132.3	9250.1	9283.8	9418.4	9777.4	10383.2	11622.9	11953.9	12941.2	12728.0	10618.8
30°	9474.5	9592.3	9586.7	9816.7	10063.5	10747.9	12312.9	12380.2	13833.1	13305.8	10826.4
32.5°	9889.6	10013.0	10052.3	10321.5	10517.9	11415.4	13154.3	13328.2	14691.4	14214.5	11370.5
35°	10405.7	10360.8	10540.3	10809.6	11230.3	12391.4	14180.9	14472.6	15616.9	15392.5	11931.5
37.5°	11050.8	10994.7	11168.6	11606.1	12178.3	13547.0	15128.9	15319.6	16290.1	16486.4	12969.2
40°	11505.1	11527.6	12054.9	12643.9	13249.7	14646.5	15729.1	15914.2	16761.3	17507.3	13754.6
42.5°	12262.4	12402.7	13036.5	13754.6	14388.4	15471.1	16217.1	16396.6	16980.0	18326.3	14814.8
45°	13361.9	13300.2	14001.4	14803.5	15504.7	16329.3	16794.9	16733.2	17109.1	19139.7	15482.3
47.5°	14775.5	14786.7	15252.3	15936.7	16665.9	17075.4	17440.0	17221.2	17378.3	19998.0	16374.2
50°	15740.3	15824.5	16200.3	16901.5	17266.1	17894.4	18360.0	18225.4	18174.9	20514.0	16935.2
52.5°	15987.2	16239.6	16441.5	17316.6	18169.3	19162.1	19756.8	20042.8	19145.3	20687.9	17647.6
55°	14124.8	14349.2	15061.6	16262.0	18511.4	21170.4	21989.3	21995.0	20413.1	21462.1	18146.8
57.5°	11292.0	10837.6	11275.1	12548.5	15650.6	21086.2	23077.6	22813.9	21046.9	21007.7	17714.9
60°	7808.5	7696.3	7724.3	8229.2	10832.0	16772.5	20564.5	20906.7	19380.9	18208.5	14023.8
62.5°	6187.3	6091.9	5968.5	5912.4	6725.8	10450.5	14506.2	14988.7	13552.6	11808.1	8313.3
65°	4846.6	4790.5	4807.4	5031.7	5026.1	5929.3	7931.9	7735.5	6192.9	4577.4	2614.0
67.5°	3270.4	3354.5	3421.8	4100.6	4448.4	4128.6	3831.3	3719.1	2013.8	847.0	577.8
70°	1839.9	1851.1	1924.1	2563.6	3376.9	3203.0	2642.1	2642.1	1004.1	308.5	331.0
72.5°	1004.1	970.4	903.1	1105.1	1503.4	1525.8	1178.0	1026.5	297.3	201.9	185.1
75°	488.0	482.4	415.1	342.2	325.4	269.3	207.6	190.7	134.6	129.0	112.2
77.5°	101.0	95.4	50.5	50.5	56.1	61.7	78.5	78.5	95.4	95.4	78.5
80°	0.0	0.0	5.6	22.4	39.3	56.1	67.3	67.3	78.5	78.5	61.7
82.5°	0.0	0.0	5.6	16.8	33.7	50.5	61.7	67.3	78.5	84.1	67.3
85°	0.0	0.0	0.0	11.2	28.0	39.3	33.7	33.7	28.0	22.4	11.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	13289.0	13289.0	13289.0	13289.0	13289.0	13289.0	13289.0	13289.0	13289.0	13289.0	13289.0
2.5°	13092.6	13081.4	12823.4	12677.5	12413.9	12183.9	11998.8	11864.1	11864.1	11780.0	11701.5
5°	12722.4	12627.0	12077.3	11723.9	11224.7	10854.4	10602.0	10405.7	10097.1	10181.3	9850.3
7.5°	12262.4	12021.2	11292.0	10753.5	10063.5	9536.2	8997.7	8520.9	8060.9	7853.3	7965.5
10°	11768.8	11348.1	10366.4	9513.8	8655.5	7690.7	7062.4	6299.5	5828.3	5800.3	5676.8
12.5°	11247.1	10770.3	9575.5	8397.5	7269.9	6108.8	5149.5	4437.1	4117.4	3764.0	3831.3
15°	10854.4	10147.6	8694.8	7275.6	5777.8	4605.4	3640.6	3090.8	2787.9	2703.8	2675.7
17.5°	10428.1	9670.8	7797.2	6080.7	4532.5	3315.2	2619.6	2356.0	2238.2	2238.2	2221.4
20°	9985.0	9132.3	6905.3	4970.0	3399.4	2473.8	2098.0	2013.8	2008.2	2002.6	2002.6
22.5°	9693.3	8515.3	6097.6	3949.1	2563.6	1980.2	1823.1	1789.4	1811.9	1879.2	1879.2
25°	9384.7	7920.7	5205.6	3046.0	1985.8	1699.7	1609.9	1632.4	1688.5	1750.2	1727.7
27.5°	9070.6	7533.6	4364.2	2389.7	1626.8	1486.5	1452.9	1503.4	1565.1	1621.2	1604.3
30°	8997.7	7118.5	3567.7	1811.9	1396.8	1295.8	1318.2	1363.1	1424.8	1447.3	1469.7
32.5°	9109.9	6793.1	2922.6	1486.5	1217.3	1189.2	1189.2	1211.7	1250.9	1301.4	1284.6
35°	9429.6	6608.0	2311.1	1290.2	1116.3	1088.2	1082.6	1105.1	1127.5	1144.3	1127.5
37.5°	9917.6	6462.2	1890.4	1144.3	1049.0	1004.1	992.9	987.3	1009.7	1015.3	1026.5
40°	10540.3	6540.7	1604.3	1054.6	981.7	931.2	897.5	897.5	897.5	914.4	920.0
42.5°	11213.4	6647.3	1385.6	1004.1	920.0	858.3	824.6	813.4	824.6	847.0	841.4
45°	11920.2	6854.8	1245.3	925.6	863.9	785.3	740.5	729.2	757.3	802.2	796.6
47.5°	12582.2	7152.1	1138.7	875.1	807.8	734.8	678.8	667.5	718.0	779.7	785.3
50°	13244.1	7668.2	1099.5	835.8	768.5	684.4	633.9	622.7	678.8	757.3	774.1
52.5°	14007.0	8223.6	1071.4	785.3	723.6	645.1	589.0	577.8	639.5	740.5	746.1
55°	14506.2	8694.8	1049.0	695.6	639.5	583.4	538.5	532.9	600.2	690.0	712.4
57.5°	13922.8	8038.5	970.4	605.8	544.1	516.1	476.8	476.8	532.9	617.0	633.9
60°	10557.1	5289.8	690.0	488.0	460.0	443.2	426.3	426.3	471.2	532.9	538.5
62.5°	6181.7	2849.6	443.2	392.7	392.7	375.8	347.8	347.8	392.7	426.3	431.9
65°	1834.3	914.4	359.0	336.6	331.0	302.9	274.9	269.3	302.9	319.7	314.1
67.5°	527.3	420.7	297.3	280.5	274.9	230.0	213.2	207.6	213.2	201.9	196.3
70°	314.1	286.1	230.0	235.6	207.6	168.3	151.5	145.8	134.6	117.8	106.6
72.5°	173.9	173.9	168.3	179.5	145.8	112.2	95.4	78.5	61.7	50.5	44.9
75°	106.6	112.2	117.8	123.4	95.4	72.9	61.7	39.3	22.4	11.2	11.2
77.5°	72.9	78.5	84.1	89.8	78.5	67.3	50.5	28.0	5.6	0.0	0.0
80°	56.1	61.7	72.9	78.5	84.1	89.8	67.3	28.0	5.6	0.0	0.0
82.5°	61.7	67.3	84.1	78.5	78.5	78.5	61.7	28.0	5.6	0.0	0.0
85°	11.2	16.8	28.0	28.0	39.3	50.5	39.3	11.2	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)