

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: P651119

Luminaire Tested: **GALN-SA9C-840-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651119
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9C-840-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31286.1 lumens
Efficiency: N/A
Efficacy: 65.0 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

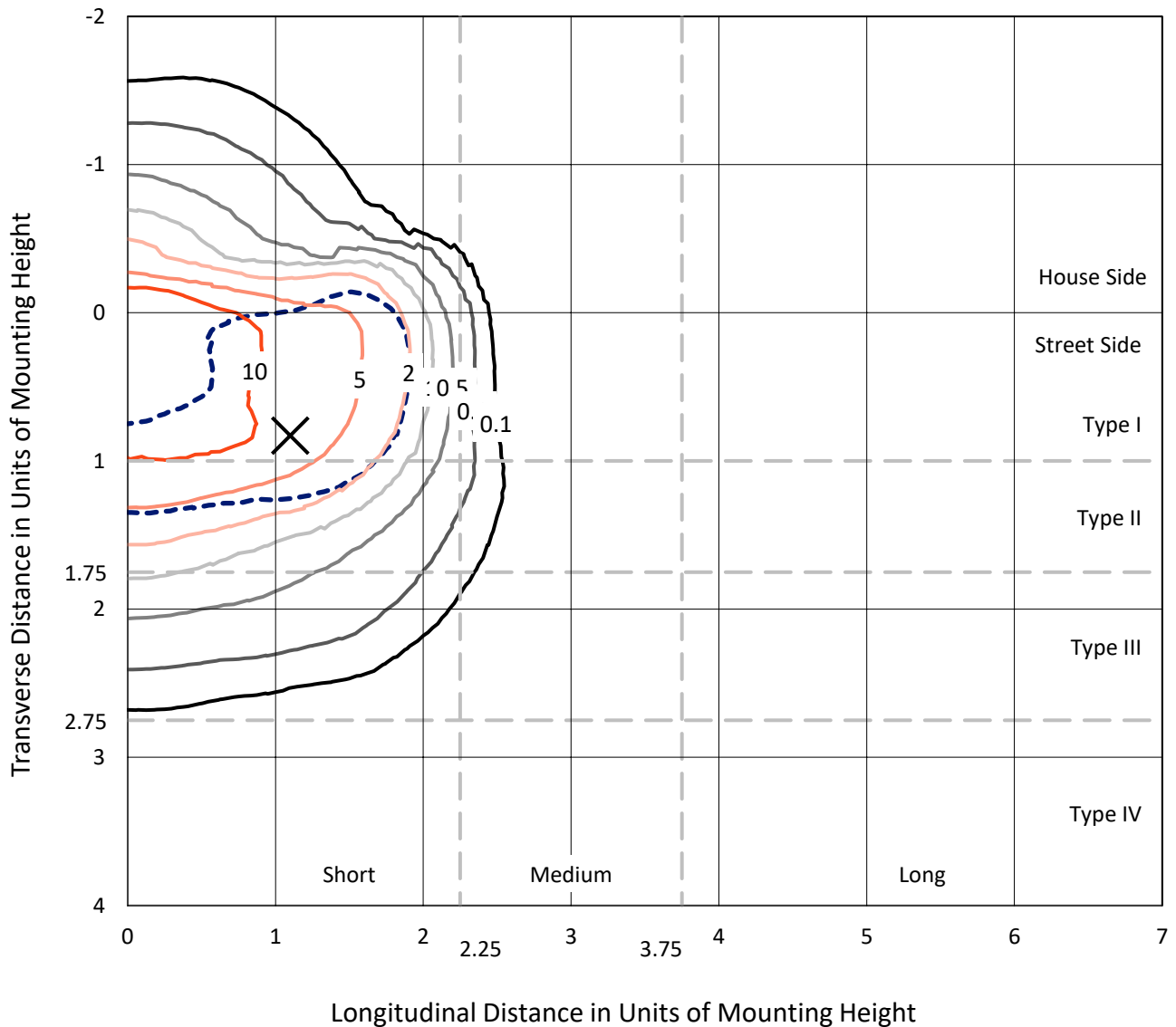
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

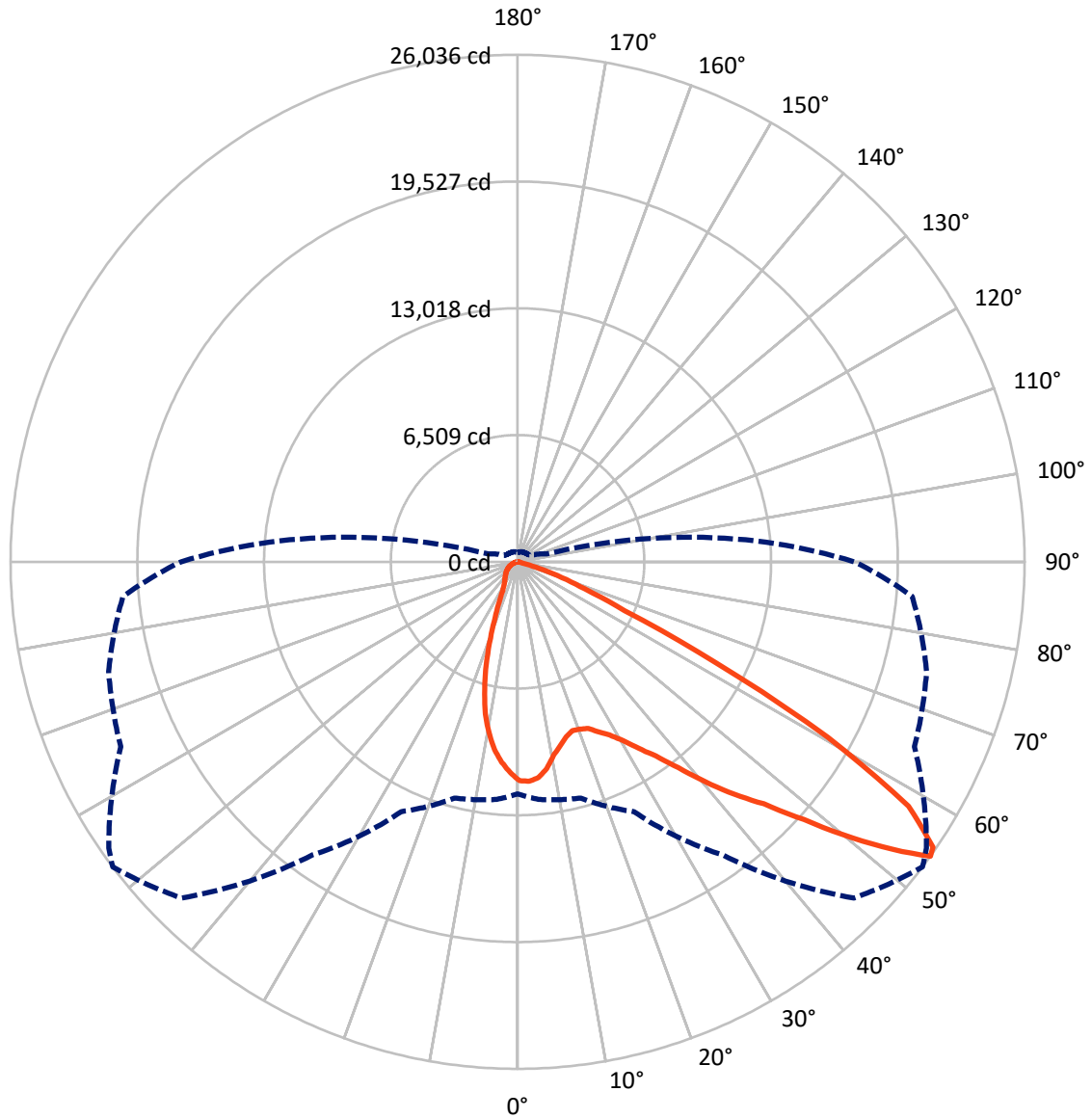
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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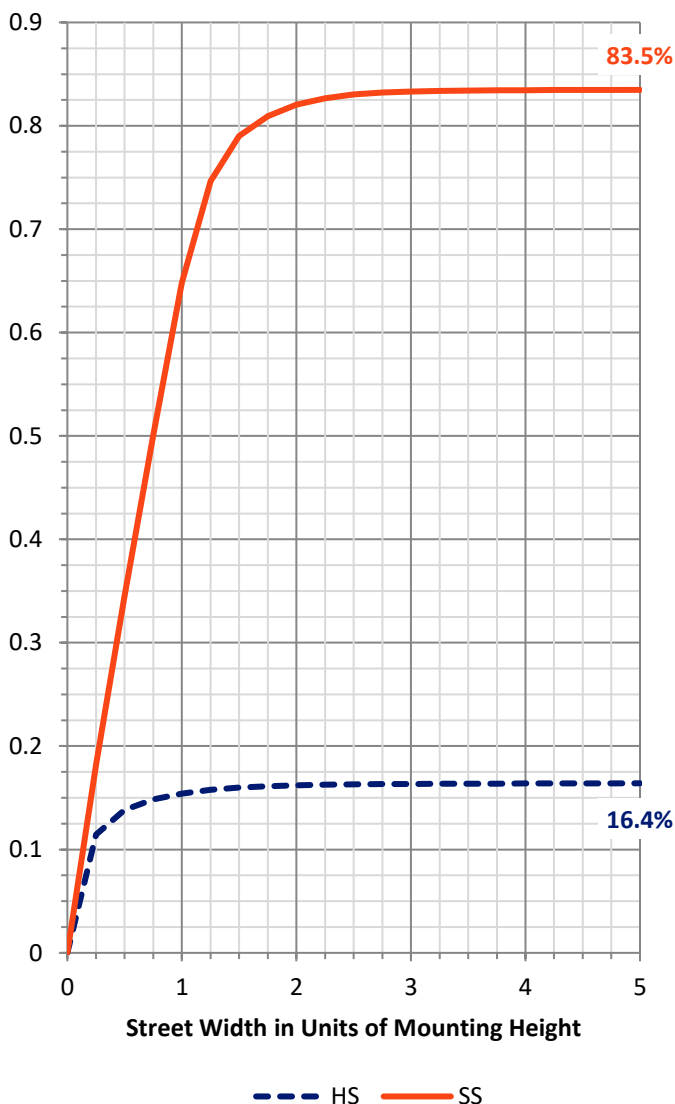
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5176.4	0.0	5176.4
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	26109.7	0.0	26109.7
	% Fixture	83.5	0.0	83.5
Total	Lumens	31286.1	0.0	31286.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	964.1	3.1
10°-20°	2210.5	7.1
20°-30°	3141.6	10.0
30°-40°	4848.3	15.5
40°-50°	7601.6	24.3
50°-60°	8830.3	28.2
60°-70°	3336.6	10.7
70°-80°	317.3	1.0
80°-90°	35.7	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°	31286.1	100.0
0°-180°	31286.1	100.0

Coefficient of Utilization

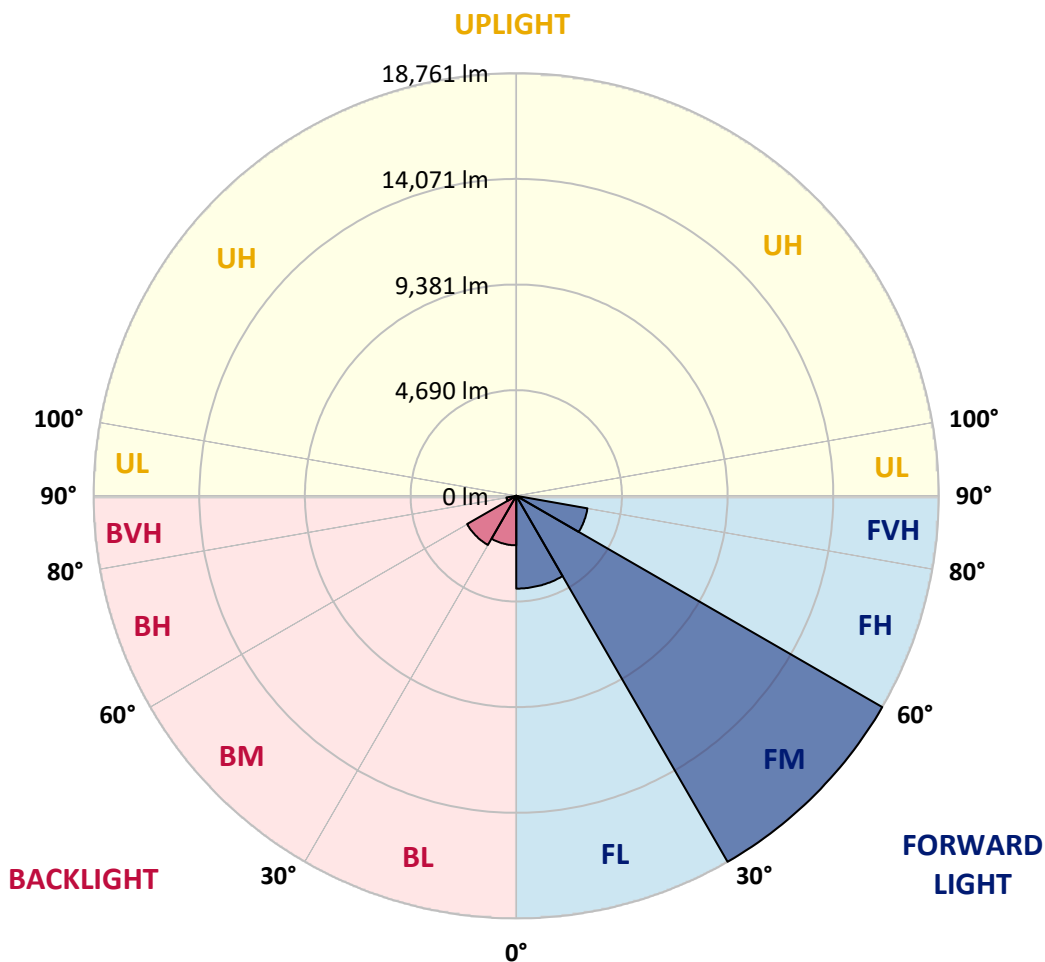


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4119.6	13.2			
FM (30°-60°)	18761.3	60.0			
FH (60°-80°)	3210.4	10.3			G2/5000
FVH (80°-90°)	18.5	0.1			G1/100
BL (0°-30°)	2196.6	7.0	B3/2500		
BM (30°-60°)	2519.0	8.1	B3/5000		
BH (60°-80°)	443.5	1.4	B1/500		G1/500
BVH (80°-90°)	17.3	0.1			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°	53°	55°	65°	75°	85°
0°	11237.4	11237.4	11237.4	11237.4	11237.4	11237.4	11237.4	11237.4	11237.4	11237.4	11237.4
2.5°	11179.2	11080.0	11179.2	11190.8	11260.7	11324.8	11284.0	11377.3	11324.8	11266.5	11249.0
5°	10275.7	10409.7	10415.6	10625.4	10578.8	10963.4	11132.5	11085.9	11371.5	11354.0	11313.2
7.5°	9465.5	9413.1	9483.0	9727.8	10036.7	10479.7	10724.5	10718.7	11126.7	11418.1	11389.0
10°	8713.7	8707.8	8853.5	9045.9	9308.2	9774.4	10112.5	10281.6	10916.9	11359.8	11423.9
12.5°	8206.6	8183.3	8340.6	8498.0	8911.8	9273.2	9704.6	9786.1	10514.7	11155.8	11260.7
15°	7874.4	7926.8	7938.5	8241.5	8503.9	8981.8	9319.8	9488.8	10328.2	10992.6	11394.8
17.5°	7816.1	7886.0	7891.9	8142.5	8422.2	8824.4	9121.7	9349.0	10170.8	11074.2	11400.6
20°	7932.6	7891.9	7926.8	8084.2	8358.1	8742.8	9174.1	9249.9	10118.3	11115.0	11464.8
22.5°	8264.8	8253.2	8165.8	8294.0	8486.4	8888.5	9296.5	9413.1	10269.9	11324.8	11517.2
25°	8632.0	8696.2	8614.6	8597.1	8731.2	9127.5	9669.6	9821.1	10777.0	11703.7	11680.4
27.5°	9319.8	9255.7	9255.7	9174.1	9139.1	9331.5	10071.7	10322.3	11342.3	12193.3	11866.9
30°	9978.5	10048.4	9996.0	10025.1	9791.9	9774.4	10642.9	10951.8	12344.9	12939.4	12263.2
32.5°	11021.7	10928.5	11015.9	10940.1	10631.2	10316.5	11418.1	11738.7	13557.2	13796.2	12857.7
35°	11890.2	11849.4	12222.4	12210.8	11709.5	11400.6	12239.9	12717.9	14402.3	14822.0	13557.2
37.5°	13125.8	13050.1	13475.6	13679.5	13230.8	12770.3	13417.3	13971.0	15189.1	15643.8	14274.1
40°	14396.5	14588.8	15160.0	15498.1	15020.2	14408.2	14856.9	15026.0	15713.7	16180.0	14763.7
42.5°	16005.2	16285.0	16867.8	17159.2	17118.4	16454.0	16319.9	16314.1	16092.6	16028.5	15125.0
45°	17549.7	17444.8	18342.4	18977.8	19490.6	19298.3	17730.4	17555.5	16692.9	16255.8	15218.3
47.5°	18225.8	18190.8	18802.8	19933.6	21682.2	21921.1	19782.1	19105.9	17707.1	17211.7	15725.4
50°	17351.5	17532.2	18138.4	19391.5	22072.6	23897.0	22300.0	21390.8	18890.3	18377.4	16926.1
52.5°	14495.6	14618.0	15195.0	16786.2	20743.8	25062.7	24713.0	24188.4	21064.4	20213.4	19018.5
54°	11919.3	12245.7	12560.5	14157.5	18377.4	24415.7	26036.1	25633.9	22480.7	21740.4	20335.8
55°	10380.6	10573.0	10800.3	12391.5	16739.5	23320.0	25884.6	25919.5	23430.7	22218.4	21221.7
57.5°	7583.0	7717.0	7483.8	8189.1	11493.9	18936.9	23675.5	24619.8	24713.0	22935.3	21763.7
60°	5793.6	5851.8	5589.5	5700.3	7145.8	12997.7	18313.3	19449.8	22294.2	20044.3	18435.6
62.5°	4493.8	4505.5	4499.6	4691.9	4925.1	7647.0	11453.1	12461.4	15369.9	14233.3	12519.7
65°	3310.6	3258.1	3351.4	3934.3	4202.4	4808.5	6032.6	6766.9	8352.3	7052.5	5041.7
67.5°	2144.9	2162.4	2255.6	2925.9	3602.0	3689.5	3712.8	3654.5	3660.3	2016.6	1264.8
70°	1288.1	1317.3	1288.1	1655.3	2576.2	2646.1	2418.9	2360.5	1841.8	477.9	472.1
72.5°	763.5	722.8	647.0	711.1	1072.4	1282.3	1154.0	1148.2	722.8	279.8	279.8
75°	320.6	291.4	238.9	215.6	285.6	273.9	273.9	244.8	192.3	186.5	174.8
77.5°	64.1	64.1	46.6	52.5	70.0	81.6	99.1	99.1	116.6	116.6	110.8
80°	0.0	5.8	17.5	35.0	52.5	75.8	87.5	87.5	99.1	99.1	81.6
82.5°	0.0	5.8	17.5	35.0	46.6	70.0	87.5	87.5	99.1	104.9	87.5
85°	0.0	5.8	17.5	29.2	46.6	58.3	58.3	52.5	40.8	35.0	23.3
87.5°	0.0	0.0	5.8	11.7	5.8	11.7	11.7	11.7	11.7	11.7	11.7
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°	11237.4	11237.4	11237.4	11237.4	11237.4	11237.4	11237.4	11237.4	11237.4	11237.4	11237.4
2.5°	11289.8	11284.0	11144.2	10916.9	10864.4	10672.0	10648.7	10532.2	10596.3	10380.6	10357.3
5°	11196.7	11126.7	10957.6	10811.9	10386.4	10083.3	9844.4	9553.0	9384.0	9413.1	9302.4
7.5°	11330.7	11150.0	10852.8	10345.6	9826.9	9296.5	9010.9	8416.4	8200.8	7880.2	7833.6
10°	11190.8	11056.7	10596.3	9756.9	9040.1	8276.5	7606.3	6947.6	6446.3	6230.7	6184.0
12.5°	11179.2	10946.0	10176.6	9244.0	8206.6	7110.8	6137.4	5315.6	4820.2	4540.4	4476.3
15°	10998.4	10718.7	9704.6	8451.4	7017.6	5653.7	4592.9	3800.2	3421.4	3258.1	3304.8
17.5°	11015.9	10596.3	9232.4	7612.1	5846.0	4149.9	3135.8	2727.8	2628.6	2669.5	2669.5
20°	10998.4	10322.3	8661.2	6644.6	4476.3	2879.3	2302.2	2156.6	2220.7	2348.9	2319.7
22.5°	10905.2	10194.1	8136.7	5624.5	3293.1	2133.3	1847.7	1853.5	1952.5	2109.9	2144.9
25°	10975.1	9908.5	7472.2	4592.9	2401.4	1701.9	1602.9	1643.7	1748.5	1865.2	1888.5
27.5°	10922.7	9704.6	6778.6	3567.1	1754.4	1463.0	1457.1	1503.8	1550.4	1637.8	1637.8
30°	10980.9	9518.0	6096.7	2652.0	1445.5	1340.6	1317.3	1352.2	1398.8	1416.3	1410.5
32.5°	11196.7	9378.1	5309.8	1981.7	1276.5	1224.0	1224.0	1224.0	1218.2	1241.5	1247.3
35°	11668.7	9401.5	4616.2	1532.9	1165.7	1124.9	1107.4	1084.1	1072.4	1084.1	1089.9
37.5°	12181.6	9389.8	3899.3	1305.6	1084.1	1049.1	1008.4	973.4	967.6	979.2	961.7
40°	12409.0	9500.5	3234.8	1171.5	1008.4	967.6	903.4	874.3	880.1	891.8	880.1
42.5°	12717.9	9535.5	2803.6	1066.6	938.4	874.3	833.5	798.5	792.6	810.1	804.3
45°	12712.1	9337.3	2348.9	1008.4	874.3	804.3	751.9	722.8	722.8	734.4	740.2
47.5°	13085.0	9308.2	2016.6	955.9	827.6	757.7	693.6	670.3	664.5	664.5	652.8
50°	13953.5	9716.2	1760.2	897.6	769.3	705.3	652.8	623.7	600.3	588.7	582.8
52.5°	15649.6	10986.8	1562.1	827.6	705.3	652.8	606.2	582.8	553.7	524.5	518.7
54°	17293.2	12298.2	1550.4	769.3	652.8	617.8	577.0	565.4	530.4	489.6	477.9
55°	18033.5	13061.7	1591.2	722.8	617.8	594.5	559.5	547.9	512.9	466.3	460.4
57.5°	18645.5	13359.0	1567.9	600.3	559.5	553.7	524.5	507.1	466.3	402.2	390.5
60°	15008.5	10100.8	1124.9	530.4	512.9	501.2	477.9	466.3	413.9	343.9	338.1
62.5°	9483.0	5811.1	716.9	466.3	448.8	431.3	402.2	390.5	343.9	273.9	256.4
65°	4039.2	2407.2	483.7	413.9	384.7	355.6	332.2	314.7	273.9	204.0	198.1
67.5°	1049.1	856.8	402.2	361.4	320.6	279.8	262.3	233.1	186.5	139.9	134.1
70°	472.1	431.3	338.1	303.1	256.4	215.6	192.3	163.2	122.4	93.3	87.5
72.5°	279.8	273.9	256.4	227.3	192.3	163.2	139.9	110.8	81.6	52.5	52.5
75°	174.8	169.0	174.8	157.4	134.1	122.4	104.9	75.8	46.6	23.3	23.3
77.5°	104.9	104.9	104.9	99.1	93.3	93.3	75.8	46.6	23.3	5.8	5.8
80°	81.6	81.6	87.5	81.6	81.6	81.6	64.1	35.0	11.7	0.0	0.0
82.5°	81.6	87.5	99.1	93.3	81.6	70.0	58.3	35.0	11.7	0.0	0.0
85°	23.3	17.5	29.2	40.8	58.3	52.5	40.8	29.2	11.7	0.0	0.0
87.5°	11.7	11.7	11.7	11.7	5.8	5.8	5.8	5.8	5.8	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)