

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: P651641

Luminaire Tested: **GALN-SA9D-840-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651641
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9D-840-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35221.1 lumens
Efficiency: N/A
Efficacy: 63.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G2

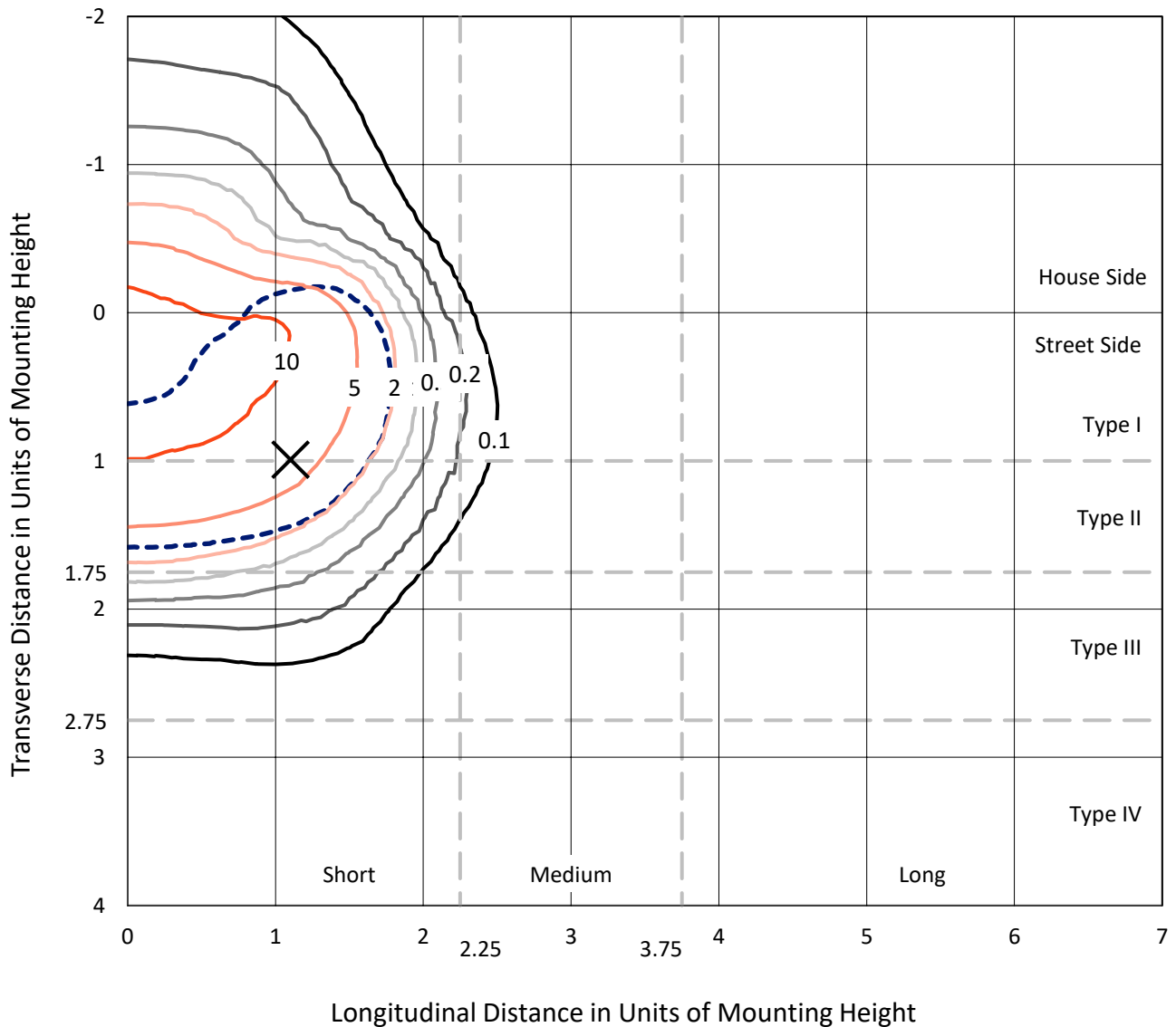
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

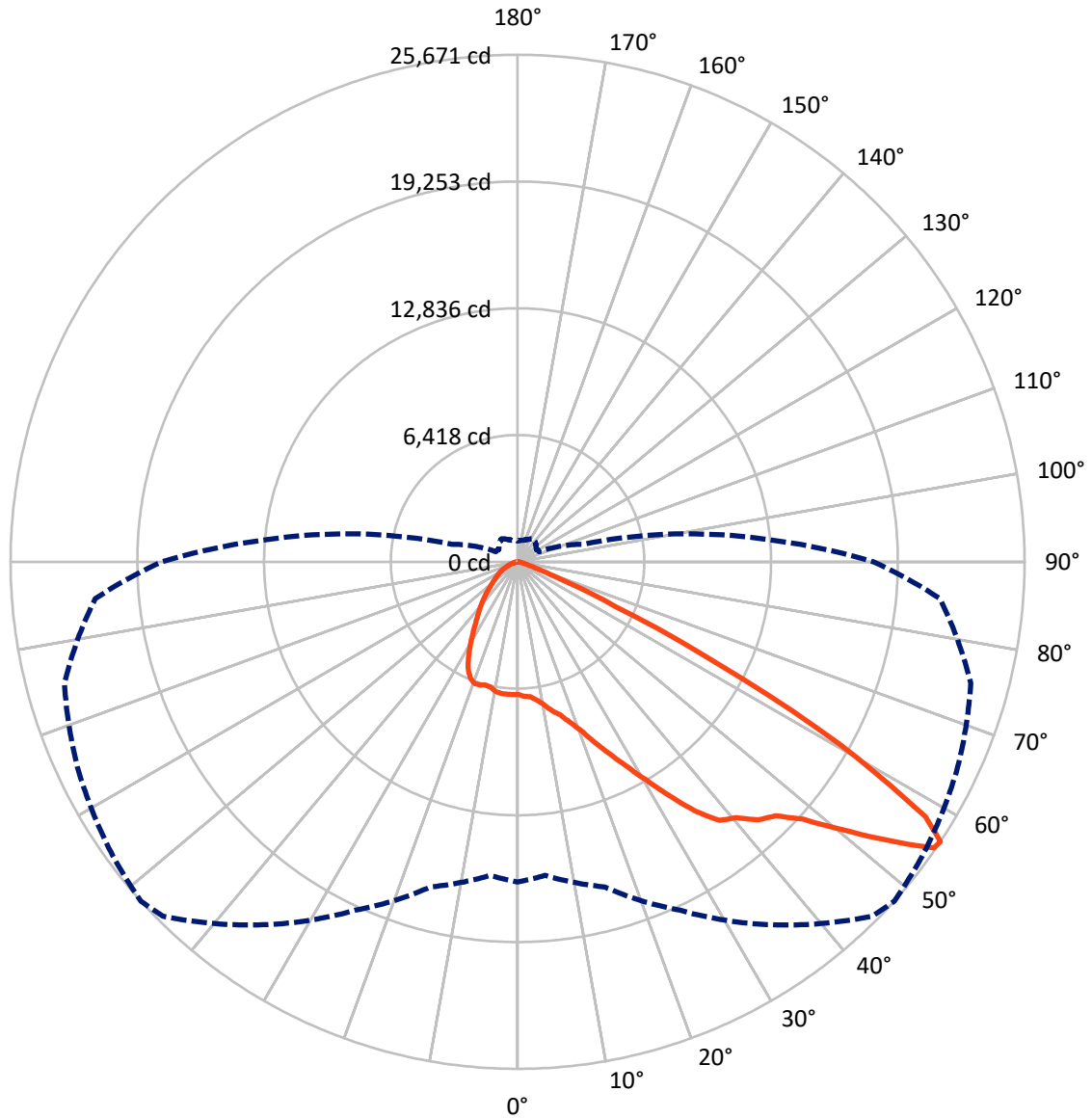
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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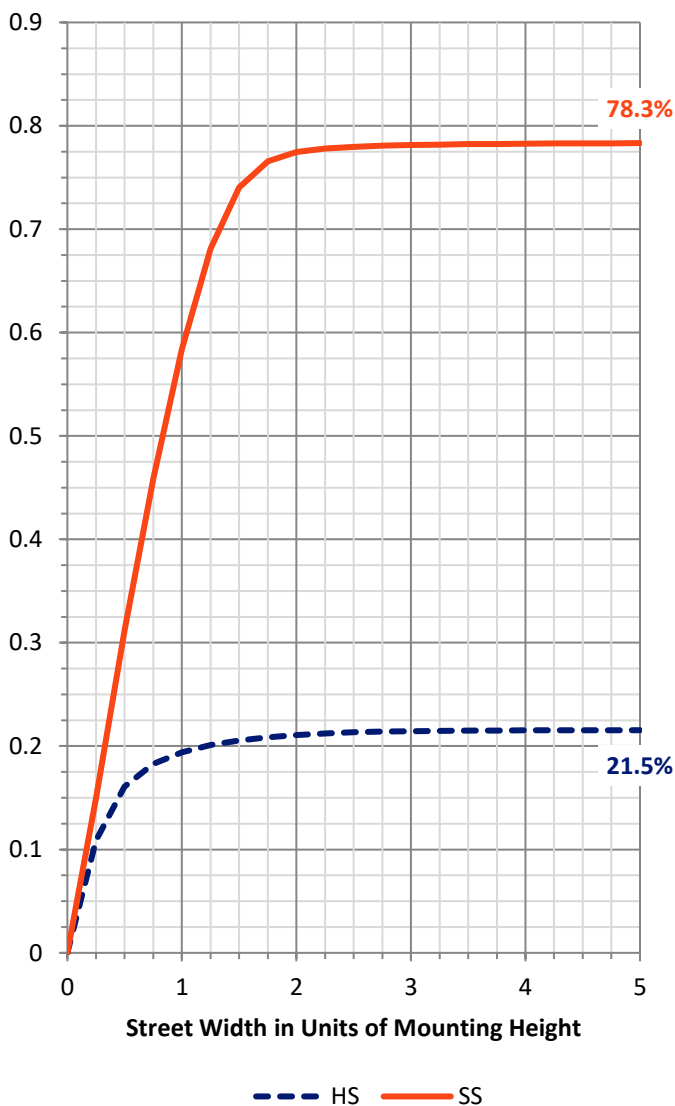
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7659.9	0.0	7659.9
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	27561.2	0.0	27561.2
	% Fixture	78.3	0.0	78.3
Total	Lumens	35221.1	0.0	35221.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	655.3	1.9
10°-20°	2094.2	5.9
20°-30°	3798.5	10.8
30°-40°	5966.8	16.9
40°-50°	8704.4	24.7
50°-60°	10487.1	29.8
60°-70°	3070.5	8.7
70°-80°	389.5	1.1
80°-90°	54.6	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°	35221.1	100.0
0°-180°	35221.1	100.0

Coefficient of Utilization

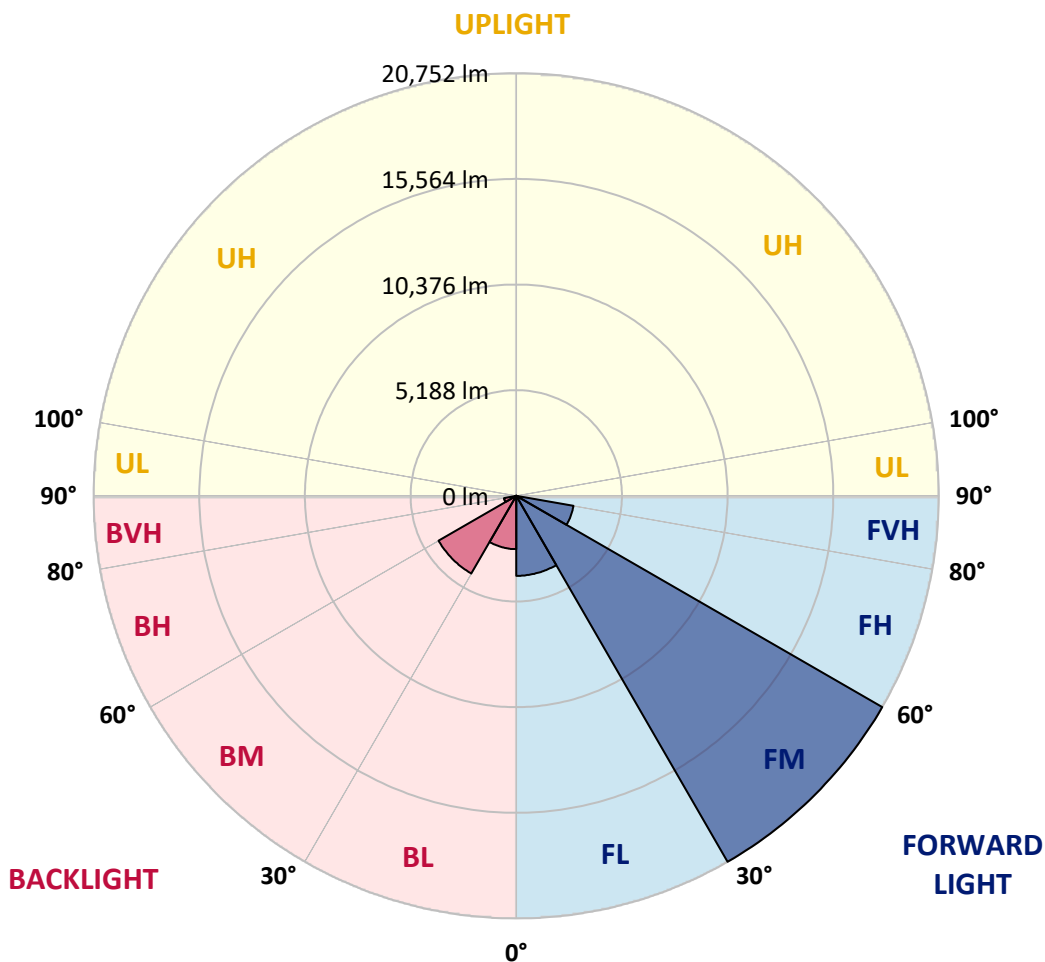


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3930.0	11.2			
FM (30°-60°)	20752.4	58.9			
FH (60°-80°)	2851.4	8.1			G2/5000
FVH (80°-90°)	27.4	0.1			G1/100
BL (0°-30°)	2618.1	7.4	B4/5000		
BM (30°-60°)	4406.0	12.5	B3/5000		
BH (60°-80°)	608.6	1.7	B2/1000		G2/1000
BVH (80°-90°)	27.2	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	6727.2	6727.2	6727.2	6727.2	6727.2	6727.2	6727.2	6727.2	6727.2	6727.2	6727.2
2.5°	6849.1	6817.1	6817.1	6765.8	6823.5	6797.8	6817.1	6752.9	6817.1	6720.9	6797.8
5°	6881.1	6887.5	6861.9	6894.0	6894.0	6932.4	6868.4	6926.1	6958.1	6887.5	6855.5
7.5°	7047.9	7060.7	7054.3	7028.7	7080.0	7073.6	7067.1	7022.3	7035.0	7009.4	6971.0
10°	7375.0	7368.5	7400.6	7336.5	7298.0	7342.9	7355.7	7285.2	7233.9	7214.6	7092.7
12.5°	7849.6	7772.5	7727.7	7663.5	7682.8	7618.6	7734.1	7612.2	7586.6	7471.2	7349.3
15°	8234.3	8221.4	8227.9	8125.2	8009.9	8035.5	8035.5	7971.3	7932.9	7791.8	7618.6
17.5°	9023.1	8753.7	8811.5	8683.2	8587.0	8580.6	8522.9	8535.7	8433.1	8138.1	7875.2
20°	9638.8	9523.3	9433.5	9215.5	9068.0	9112.9	9087.3	9023.1	8991.0	8606.3	8234.3
22.5°	10190.2	10228.7	10081.2	10023.5	9818.3	9837.5	9888.8	9831.1	9587.4	9189.9	8638.3
25°	10966.2	10921.3	10722.6	10652.0	10459.6	10530.2	10729.0	10684.1	10530.2	9811.9	8952.5
27.5°	11883.3	11729.3	11767.9	11447.2	11261.2	11460.1	11697.3	11921.8	11485.7	10542.9	9324.5
30°	12531.0	12370.7	12357.8	12345.0	12300.1	12531.0	12806.7	13012.0	12659.2	11274.0	9940.1
32.5°	12851.7	12890.2	12999.2	12960.7	13351.9	13826.5	14115.0	14410.0	13967.5	12466.9	10754.6
35°	13704.6	13460.9	13704.6	13730.3	14134.3	15141.1	15506.6	16212.0	16103.0	14153.5	11748.6
37.5°	14204.8	14185.6	14217.6	14461.3	14852.5	16096.7	16616.1	17161.2	16956.0	15166.8	12986.3
40°	15032.1	15083.4	15076.9	15263.0	15692.6	16814.9	17026.5	17469.0	17488.3	16571.2	14807.7
42.5°	16359.6	16154.3	16019.7	16212.0	16814.9	17437.0	17860.2	17770.4	18405.3	18277.0	17148.4
45°	17552.4	17674.2	17475.5	17796.1	18014.1	18347.6	18334.8	18527.1	19335.2	19944.5	18912.0
47.5°	18668.3	18745.2	18841.4	19059.4	19534.0	19585.3	19476.3	19393.0	20508.8	21137.3	20277.9
50°	19335.2	19405.7	19854.7	20245.8	21130.9	21246.3	21310.4	21098.8	21855.5	21926.0	21566.9
52.5°	19155.6	19232.6	19861.1	21150.1	22560.9	23619.1	23426.7	23067.5	23022.7	23298.5	22759.7
55°	17565.2	17494.7	18360.5	20367.7	23009.8	25549.4	25575.1	25196.7	24472.0	24286.1	22580.2
56°	16212.0	15936.3	17039.3	19463.4	22432.7	25382.6	25671.3	25267.3	24587.5	23753.8	21470.7
57.5°	13281.3	13544.3	14640.9	16648.2	20438.2	24183.5	24350.1	24254.0	23740.9	22342.9	18892.7
60°	7323.7	7785.4	8753.7	11209.9	14551.1	18559.3	18693.9	19476.3	19572.5	17109.9	12999.2
62.5°	3110.3	3059.0	4065.8	5874.3	8285.6	11203.5	11453.7	12255.2	12402.7	9863.2	6522.0
65°	1263.4	1333.9	1840.5	2956.4	4380.1	5104.8	5457.5	5720.4	6207.8	4072.3	2404.8
67.5°	833.7	827.3	1083.8	1686.6	2360.0	2276.6	2276.6	2404.8	2225.3	1661.0	1038.9
70°	596.4	615.6	776.0	1167.1	1468.6	1090.2	1045.3	1000.5	1135.1	1096.7	840.1
72.5°	391.2	416.9	519.5	699.0	763.1	596.4	596.4	718.3	936.3	885.0	686.2
75°	256.5	262.9	320.7	404.0	378.4	307.8	339.8	481.0	679.8	654.1	487.4
77.5°	173.2	179.6	218.1	262.9	211.6	173.2	185.9	243.7	333.5	333.5	256.5
80°	64.2	70.6	89.8	83.3	96.2	121.9	134.6	166.8	198.8	198.8	173.2
82.5°	0.0	6.4	19.3	44.9	70.6	96.2	109.0	128.3	147.5	166.8	160.3
85°	0.0	6.4	19.3	32.0	51.3	57.7	64.2	44.9	38.5	38.5	32.0
87.5°	0.0	0.0	6.4	6.4	6.4	6.4	6.4	6.4	12.9	6.4	6.4
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°	6727.2	6727.2	6727.2	6727.2	6727.2	6727.2	6727.2	6727.2	6727.2	6727.2	6727.2
2.5°	6727.2	6720.9	6720.9	6701.6	6740.0	6720.9	6733.6	6727.2	6643.9	6708.0	6663.1
5°	6797.8	6842.7	6772.2	6759.3	6708.0	6727.2	6727.2	6663.1	6720.9	6714.4	6701.6
7.5°	6977.4	6900.4	6823.5	6746.5	6733.6	6714.4	6643.9	6618.2	6663.1	6611.8	6688.7
10°	7054.3	7067.1	6951.7	6849.1	6752.9	6618.2	6522.0	6464.3	6393.8	6470.7	6515.6
12.5°	7407.0	7278.8	7080.0	6919.7	6592.6	6457.9	6361.7	6336.0	6457.9	6483.5	6438.7
15°	7528.9	7509.6	7253.1	6894.0	6554.1	6393.8	6413.0	6361.7	6374.5	6310.4	6323.2
17.5°	7779.0	7560.9	7259.5	6810.6	6547.7	6509.2	6393.8	6188.6	6073.1	6021.8	6066.7
20°	8054.8	7843.1	7407.0	6842.7	6605.4	6502.8	6124.4	5874.3	5637.1	5508.8	5515.2
22.5°	8298.4	8035.5	7342.9	6855.5	6656.7	6233.4	5778.1	5284.3	4989.3	4790.5	4796.9
25°	8593.4	8221.4	7368.5	6881.1	6522.0	5803.7	5149.6	4668.6	4315.9	4181.3	4226.2
27.5°	8760.2	8336.9	7509.6	6938.8	6169.3	5194.5	4489.1	4040.2	3835.0	3770.9	3764.4
30°	9260.4	8593.4	7682.8	6823.5	5579.3	4540.4	3886.3	3610.5	3411.7	3354.0	3366.9
32.5°	10004.3	9061.6	7907.3	6522.0	4976.4	3956.8	3495.1	3289.9	3103.9	2994.9	2982.0
35°	10626.4	9863.2	8144.5	6053.9	4277.5	3507.9	3219.3	2962.8	2680.6	2558.8	2526.7
37.5°	11812.8	10767.4	8093.2	5348.4	3610.5	3174.4	2924.3	2610.1	2366.4	2199.6	2180.5
40°	13390.3	11825.6	7843.1	4489.1	3116.7	2879.4	2610.1	2308.7	2007.3	1866.2	1853.4
42.5°	15307.9	13121.0	7387.8	3617.0	2622.9	2584.5	2340.8	1994.4	1725.1	1622.5	1628.9
45°	16866.2	14230.5	6926.1	2905.1	2257.4	2295.8	2084.3	1757.2	1571.2	1487.8	1487.8
47.5°	18251.4	14980.8	6425.8	2398.4	1917.5	2007.3	1821.3	1628.9	1468.6	1404.5	1391.6
50°	19585.3	15743.9	5925.6	1943.1	1635.3	1725.1	1705.9	1552.0	1423.7	1346.7	1353.2
52.5°	20419.0	15865.8	5290.7	1590.4	1430.1	1532.7	1596.8	1455.8	1314.7	1269.7	1257.0
55°	19399.3	14294.6	4104.3	1308.3	1212.0	1346.7	1468.6	1308.3	1199.3	1122.3	1115.8
56°	18026.9	12781.1	3430.9	1205.7	1148.0	1295.4	1423.7	1250.6	1128.7	1083.8	1051.8
57.5°	15263.0	10459.6	2533.2	1071.0	1064.5	1205.7	1353.2	1192.8	1051.8	1013.2	1013.2
60°	9516.9	5887.2	1532.7	897.9	923.5	1071.0	1218.4	1064.5	936.3	936.3	955.5
62.5°	4335.2	2449.7	929.9	763.1	795.2	923.5	1083.8	961.9	891.4	961.9	974.8
65°	1475.0	1058.1	673.4	609.2	628.5	763.1	929.9	974.8	968.3	1013.2	1038.9
67.5°	827.3	679.8	564.3	506.6	493.8	564.3	763.1	974.8	936.3	917.0	929.9
70°	699.0	577.2	500.2	448.9	429.7	455.3	590.0	737.5	660.5	641.3	628.5
72.5°	564.3	481.0	436.1	404.0	346.3	295.0	269.4	282.2	314.2	333.5	365.6
75°	397.6	365.6	365.6	327.1	250.1	185.9	147.5	121.9	83.3	57.7	64.2
77.5°	224.5	224.5	230.9	198.8	160.3	121.9	89.8	64.2	32.0	12.9	6.4
80°	153.9	166.8	179.6	160.3	134.6	109.0	77.0	44.9	19.3	0.0	0.0
82.5°	153.9	173.2	185.9	160.3	134.6	102.6	77.0	44.9	19.3	6.4	0.0
85°	32.0	38.5	44.9	51.3	77.0	77.0	57.7	38.5	19.3	6.4	0.0
87.5°	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	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)