

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: P651398

Luminaire Tested: **GALN-SA5D-840-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651398
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-SA5D-840-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 4000K, 1200mA 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: 19052.9 lumens
Efficiency: N/A
Efficacy: 61.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

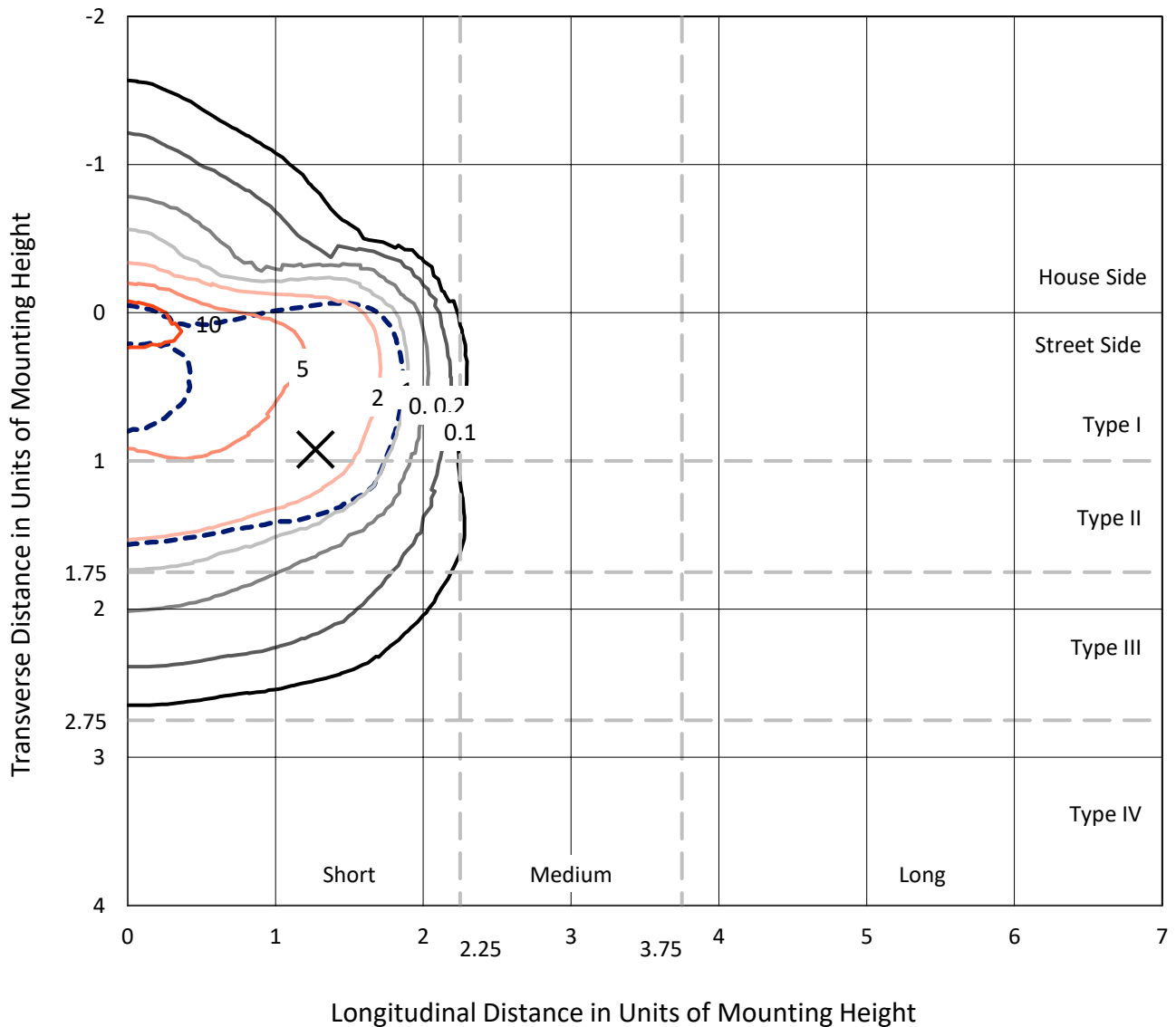
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

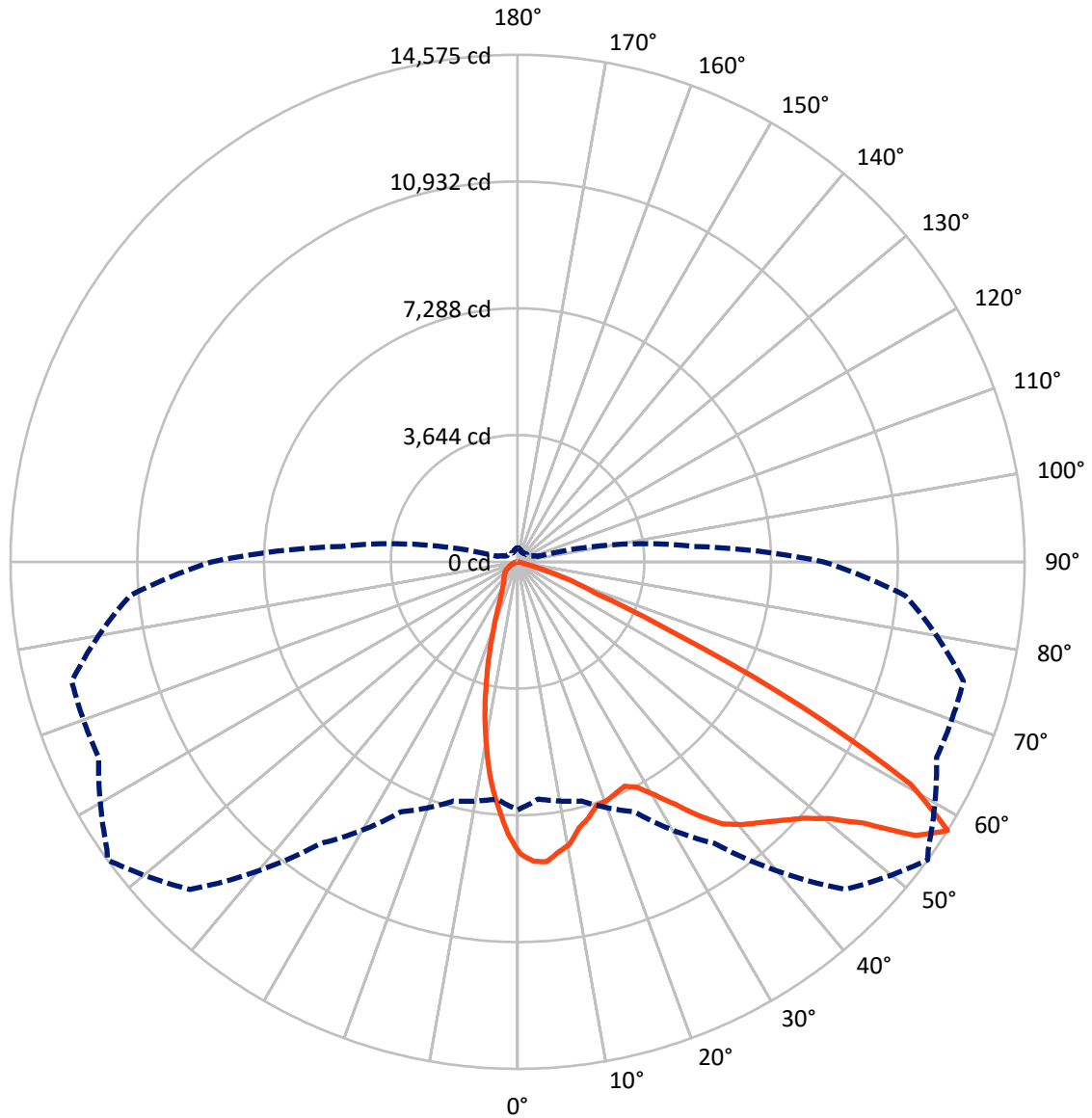
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.4 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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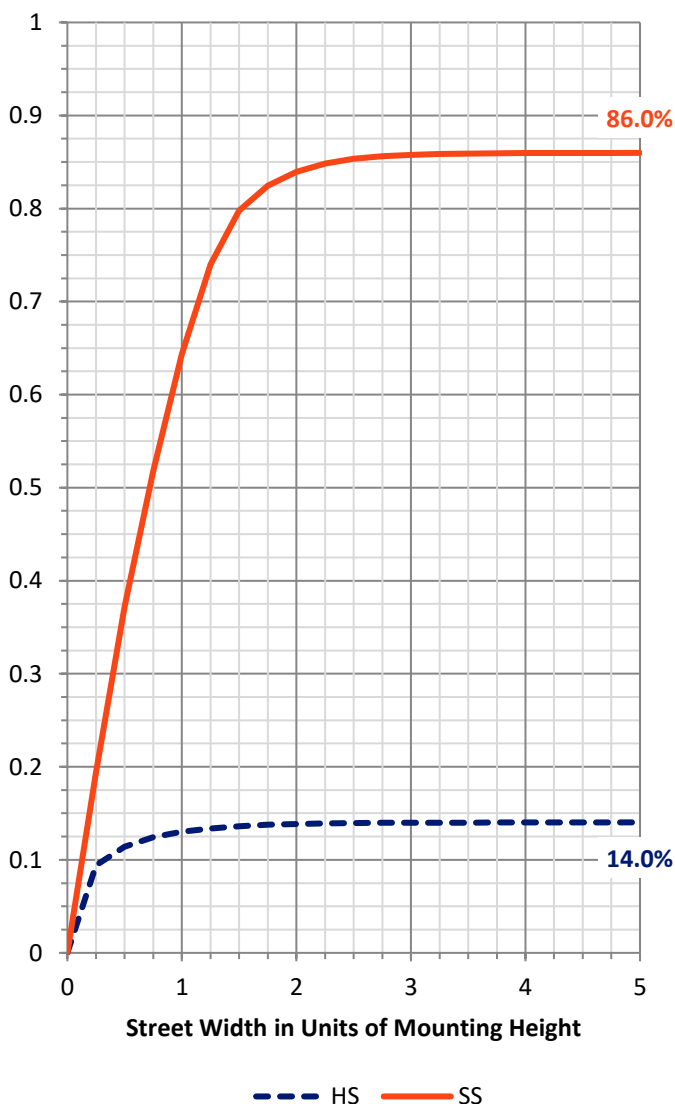
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2692.5	0.0	2692.5
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	16360.4	0.0	16360.4
	% Fixture	85.9	0.0	85.9
Total	Lumens	19052.9	0.0	19052.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	702.3	3.7
10°-20°	1499.5	7.9
20°-30°	1987.1	10.4
30°-40°	2887.9	15.2
40°-50°	4282.3	22.5
50°-60°	5354.8	28.1
60°-70°	2112.2	11.1
70°-80°	210.3	1.1
80°-90°	16.4	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°	19052.9	100.0
0°-180°	19052.9	100.0

Coefficient of Utilization



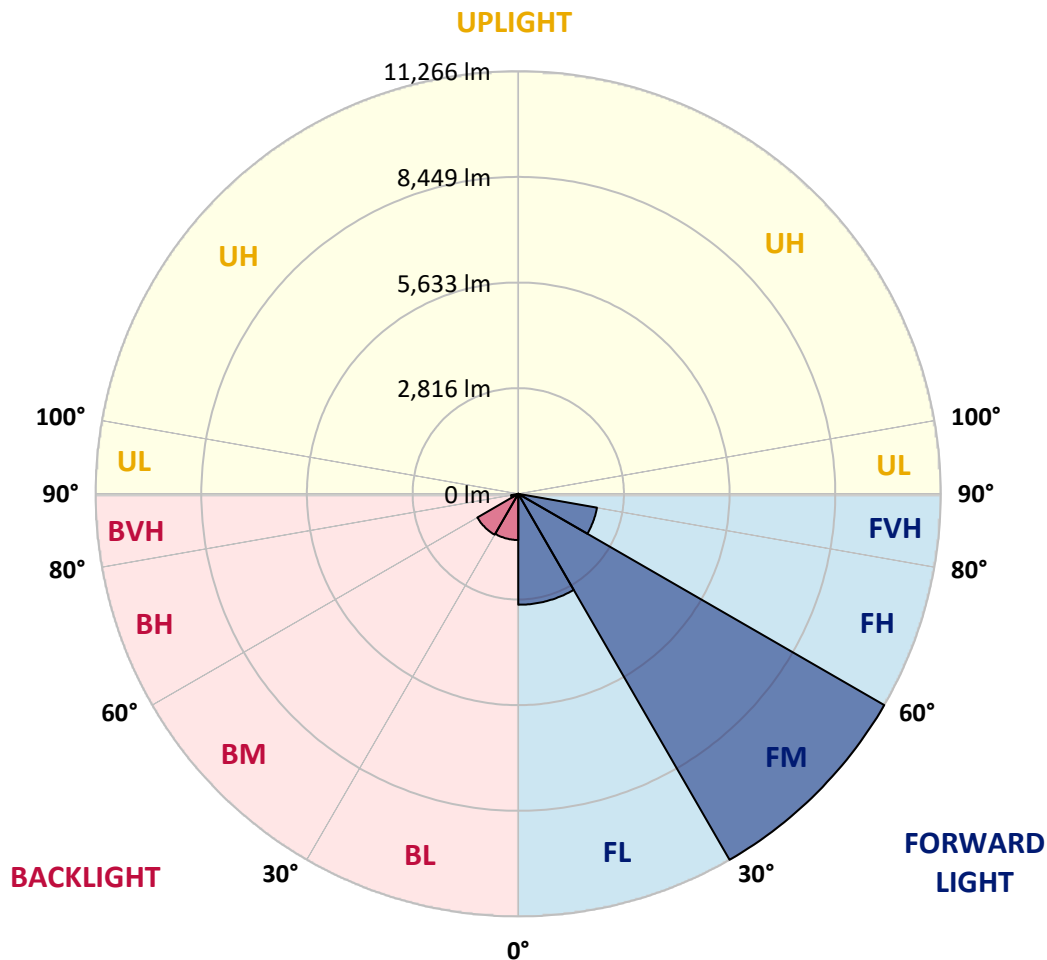
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2957.6	15.5			
FM (30°-60°)	11265.9	59.1			
FH (60°-80°)	2129.5	11.2			G2/5000
FVH (80°-90°)	7.4	0.0			G0/10
BL (0°-30°)	1231.4	6.5	B3/2500		
BM (30°-60°)	1259.1	6.6	B2/2500		
BH (60°-80°)	193.1	1.0	B1/500		G1/500
BVH (80°-90°)	8.9	0.0			G0/10
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°	8393.0	8393.0	8393.0	8393.0	8393.0	8393.0	8393.0	8393.0	8393.0	8393.0	8393.0
2.5°	8882.0	8789.9	8796.9	8765.1	8722.5	8754.4	8616.2	8648.1	8644.6	8456.8	8332.8
5°	8658.8	8757.9	8655.2	8740.3	8658.8	8747.3	8662.3	8598.6	8495.8	8357.6	8127.3
7.5°	8279.6	8184.0	8212.4	8318.7	8336.3	8534.7	8428.5	8510.0	8467.4	8194.6	7879.3
10°	7518.0	7496.7	7638.4	7780.1	7953.8	8166.3	8247.8	8201.7	8169.8	8067.1	7645.5
12.5°	6933.4	6993.6	6990.1	7223.9	7518.0	7638.4	7851.0	7843.9	8021.0	7829.7	7425.9
15°	6377.1	6409.0	6557.9	6703.1	7029.1	7372.7	7634.9	7670.3	7882.9	7748.2	7255.8
17.5°	6037.0	5990.9	6107.9	6281.5	6614.5	7064.5	7355.0	7440.0	7730.6	7702.2	7061.0
20°	5700.5	5700.5	5796.1	6001.6	6306.3	6812.9	7330.2	7305.3	7730.6	7649.1	6851.9
22.5°	5587.1	5643.8	5668.6	5824.4	6185.8	6621.6	7223.9	7269.9	7790.8	7624.3	6759.8
25°	5742.9	5668.6	5675.7	5799.7	6139.8	6529.5	7146.0	7248.7	7900.6	7748.2	6685.4
27.5°	5767.7	5842.2	5863.5	5948.5	6175.2	6557.9	7340.8	7549.8	8173.3	8038.8	6706.6
30°	5983.9	6058.3	6054.8	6200.0	6355.9	6788.1	7776.6	7819.1	8736.7	8403.7	6837.8
32.5°	6246.1	6324.0	6348.8	6518.8	6642.9	7209.7	8308.0	8417.8	9278.8	8977.6	7181.4
35°	6572.0	6543.7	6657.0	6827.1	7092.8	7826.2	8956.3	9140.6	9863.3	9721.6	7535.7
37.5°	6979.5	6944.0	7053.8	7330.2	7691.5	8556.0	9555.1	9675.5	10288.5	10412.5	8191.1
40°	7266.4	7280.6	7613.6	7985.6	8368.2	9250.4	9934.1	10051.1	10586.1	11057.3	8687.1
42.5°	7744.7	7833.2	8233.6	8687.1	9087.4	9771.2	10242.5	10355.8	10724.3	11574.5	9356.7
45°	8439.1	8400.2	8842.9	9349.6	9792.4	10313.3	10607.4	10568.3	10805.8	12088.3	9778.3
47.5°	9331.9	9339.0	9633.1	10065.3	10525.9	10784.5	11014.7	10876.6	10975.8	12630.3	10341.6
50°	9941.3	9994.4	10231.8	10674.6	10904.9	11301.7	11595.8	11510.8	11478.9	12956.3	10695.9
52.5°	10097.1	10256.6	10384.2	10936.8	11475.4	12102.4	12477.9	12658.6	12091.8	13066.1	11145.9
55°	8920.9	9062.6	9512.6	10270.8	11691.4	13370.7	13888.0	13891.6	12892.4	13555.0	11461.1
57.5°	7131.8	6844.8	7121.2	7925.4	9884.6	13317.7	14575.4	14408.9	13292.8	13268.0	11188.3
60°	4931.6	4860.8	4878.6	5197.4	6841.3	10593.2	12988.2	13204.2	12240.6	11500.2	8857.2
62.5°	3907.8	3847.6	3769.6	3734.2	4247.9	6600.3	9161.9	9466.5	8559.5	7457.7	5250.5
65°	3061.1	3025.6	3036.3	3178.0	3174.4	3744.8	5009.6	4885.6	3911.3	2890.9	1651.0
67.5°	2065.5	2118.6	2161.1	2589.9	2809.5	2607.5	2419.8	2348.9	1271.9	535.0	364.9
70°	1162.1	1169.2	1215.2	1619.1	2132.8	2022.9	1668.7	1668.7	634.2	194.9	209.0
72.5°	634.2	612.9	570.4	697.9	949.5	963.6	744.0	648.3	187.8	127.6	116.9
75°	308.2	304.7	262.1	216.1	205.5	170.1	131.1	120.4	85.0	81.5	70.9
77.5°	63.7	60.2	31.9	31.9	35.4	38.9	49.6	49.6	60.2	60.2	49.6
80°	0.0	0.0	3.5	14.2	24.8	35.4	42.6	42.6	49.6	49.6	38.9
82.5°	0.0	0.0	3.5	10.6	21.3	31.9	38.9	42.6	49.6	53.2	42.6
85°	0.0	0.0	0.0	7.1	17.7	24.8	21.3	21.3	17.7	14.2	7.1
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°	8393.0	8393.0	8393.0	8393.0	8393.0	8393.0	8393.0	8393.0	8393.0	8393.0	8393.0
2.5°	8269.0	8262.0	8099.0	8006.9	7840.4	7695.1	7578.2	7493.1	7493.1	7440.0	7390.4
5°	8035.3	7975.0	7627.8	7404.6	7089.3	6855.4	6696.0	6572.0	6377.1	6430.3	6221.3
7.5°	7744.7	7592.4	7131.8	6791.7	6355.9	6022.9	5682.7	5381.6	5091.1	4960.0	5030.9
10°	7432.9	7167.2	6547.2	6008.7	5466.7	4857.3	4460.5	3978.6	3681.1	3663.3	3585.4
12.5°	7103.4	6802.3	6047.6	5303.7	4591.5	3858.2	3252.3	2802.4	2600.5	2377.3	2419.8
15°	6855.4	6409.0	5491.4	4595.1	3649.2	2908.7	2299.3	1952.1	1760.8	1707.7	1689.9
17.5°	6586.2	6107.9	4924.6	3840.4	2862.6	2093.8	1654.5	1488.0	1413.6	1413.6	1403.0
20°	6306.3	5767.7	4361.3	3138.9	2147.0	1562.4	1325.0	1271.9	1268.3	1264.8	1264.8
22.5°	6122.1	5378.0	3851.1	2494.2	1619.1	1250.7	1151.4	1130.1	1144.3	1186.8	1186.8
25°	5927.2	5002.5	3287.8	1923.8	1254.2	1073.5	1016.8	1031.0	1066.4	1105.4	1091.2
27.5°	5728.8	4758.0	2756.4	1509.3	1027.4	938.9	917.6	949.5	988.4	1023.9	1013.2
30°	5682.7	4495.9	2253.3	1144.3	882.2	818.4	832.6	860.9	899.9	914.1	928.2
32.5°	5753.6	4290.4	1845.8	938.9	768.8	751.1	751.1	765.2	790.0	821.9	811.3
35°	5955.5	4173.5	1459.6	814.8	705.0	687.3	683.7	697.9	712.1	722.8	712.1
37.5°	6263.8	4081.4	1194.0	722.8	662.5	634.2	627.0	623.5	637.7	641.3	648.3
40°	6657.0	4131.0	1013.2	666.1	620.0	588.1	566.8	566.8	566.8	577.5	581.0
42.5°	7082.1	4198.3	875.1	634.2	581.0	542.0	520.8	513.7	520.8	535.0	531.4
45°	7528.5	4329.4	786.5	584.6	545.6	496.0	467.7	460.5	478.3	506.6	503.1
47.5°	7946.6	4517.2	719.2	552.7	510.2	464.1	428.7	421.6	453.5	492.5	496.0
50°	8364.7	4843.1	694.4	527.9	485.3	432.2	400.3	393.3	428.7	478.3	488.9
52.5°	8846.6	5193.8	676.7	496.0	457.0	407.5	372.0	364.9	403.8	467.7	471.2
55°	9161.9	5491.4	662.5	439.3	403.8	368.4	340.1	336.6	379.1	435.8	449.9
57.5°	8793.4	5076.9	612.9	382.7	343.6	326.0	301.2	301.2	336.6	389.7	400.3
60°	6667.7	3341.0	435.8	308.2	290.5	279.9	269.3	269.3	297.6	336.6	340.1
62.5°	3904.3	1799.7	279.9	248.0	248.0	237.3	219.7	219.7	248.0	269.3	272.8
65°	1158.5	577.5	226.7	212.6	209.0	191.3	173.6	170.1	191.3	201.9	198.4
67.5°	333.0	265.8	187.8	177.1	173.6	145.2	134.6	131.1	134.6	127.6	124.0
70°	198.4	180.6	145.2	148.8	131.1	106.3	95.6	92.1	85.0	74.4	67.3
72.5°	109.8	109.8	106.3	113.4	92.1	70.9	60.2	49.6	38.9	31.9	28.3
75°	67.3	70.9	74.4	78.0	60.2	46.1	38.9	24.8	14.2	7.1	7.1
77.5°	46.1	49.6	53.2	56.7	49.6	42.6	31.9	17.7	3.5	0.0	0.0
80°	35.4	38.9	46.1	49.6	53.2	56.7	42.6	17.7	3.5	0.0	0.0
82.5°	38.9	42.6	53.2	49.6	49.6	49.6	38.9	17.7	3.5	0.0	0.0
85°	7.1	10.6	17.7	17.7	24.8	31.9	24.8	7.1	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)