

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: P532861

Luminaire Tested: **GALN-SA8B-730-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532861
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-SA8B-730-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 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: 24472 lumens
Efficiency: N/A
Efficacy: 75.3 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

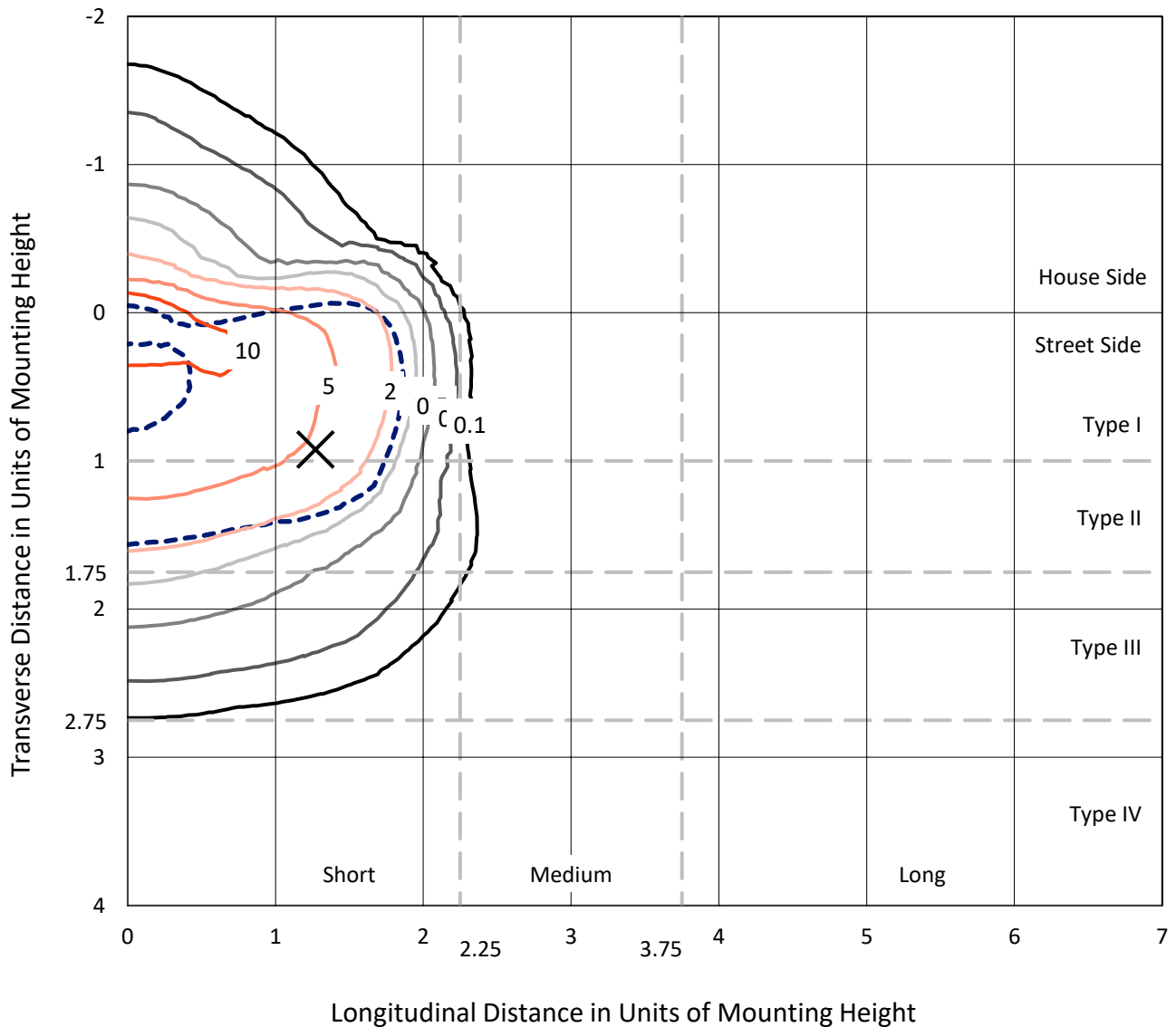
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

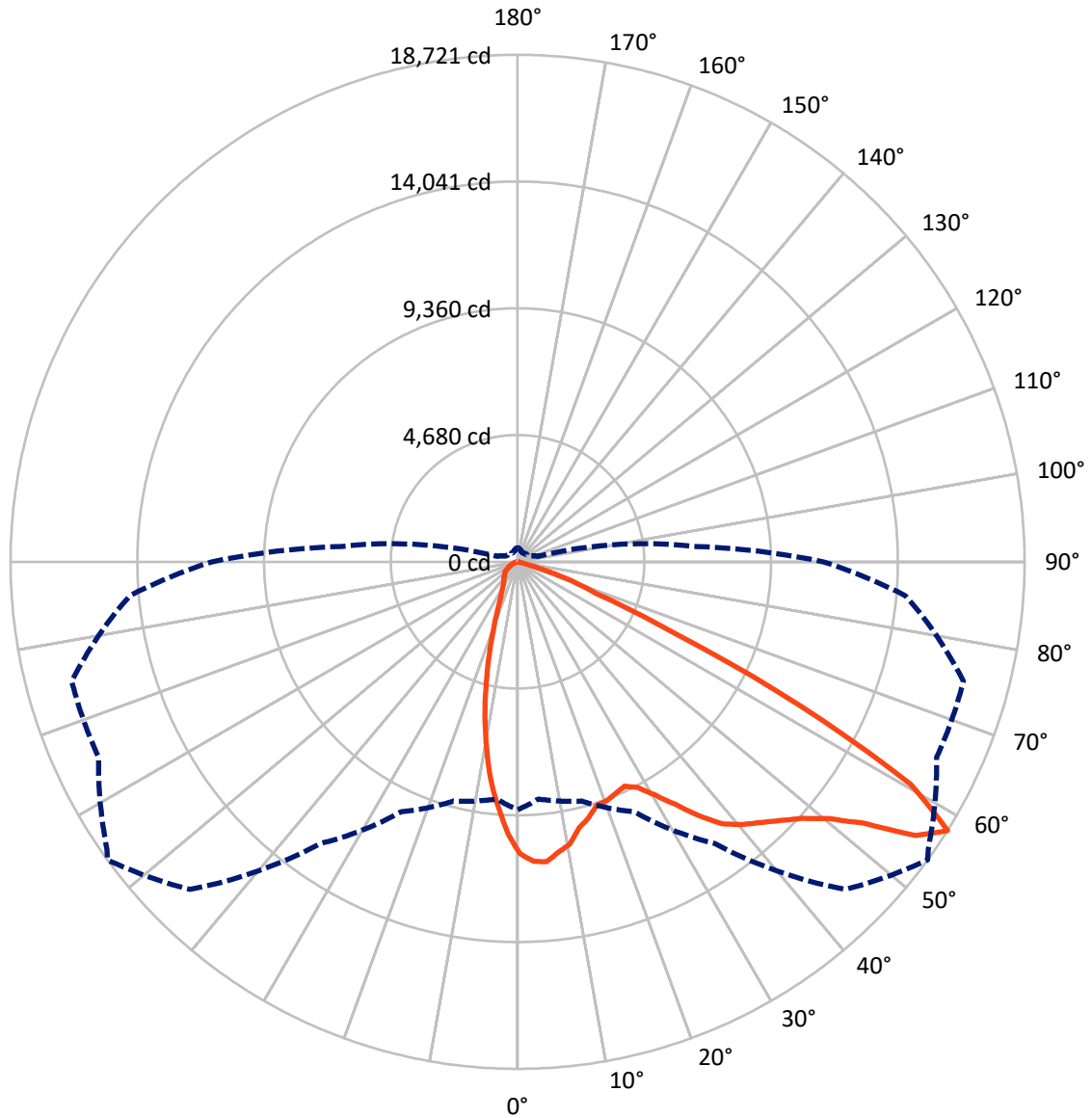
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.2 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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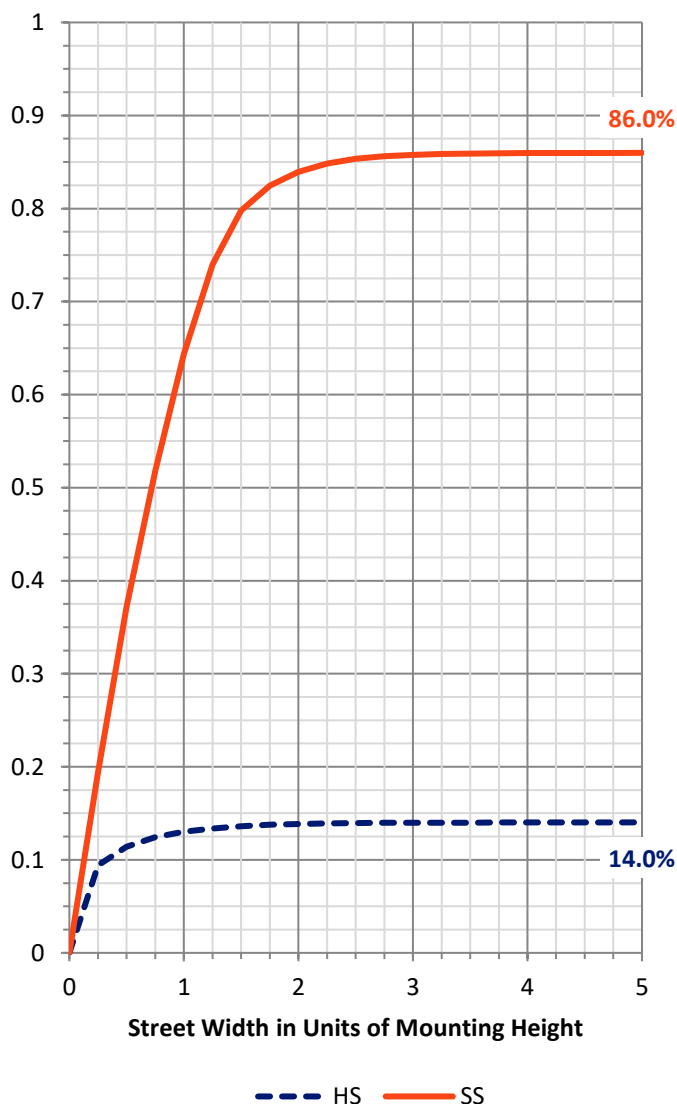
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3458.3	0.0	3458.3
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	21013.7	0.0	21013.7
	% Fixture	85.9	0.0	85.9
Total	Lumens	24472.0	0.0	24472.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	902.1	3.7
10°-20°	1926.0	7.9
20°-30°	2552.3	10.4
30°-40°	3709.2	15.2
40°-50°	5500.3	22.5
50°-60°	6877.9	28.1
60°-70°	2713.0	11.1
70°-80°	270.1	1.1
80°-90°	21.0	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°	24472.0	100.0
0°-180°	24472.0	100.0

Coefficient of Utilization

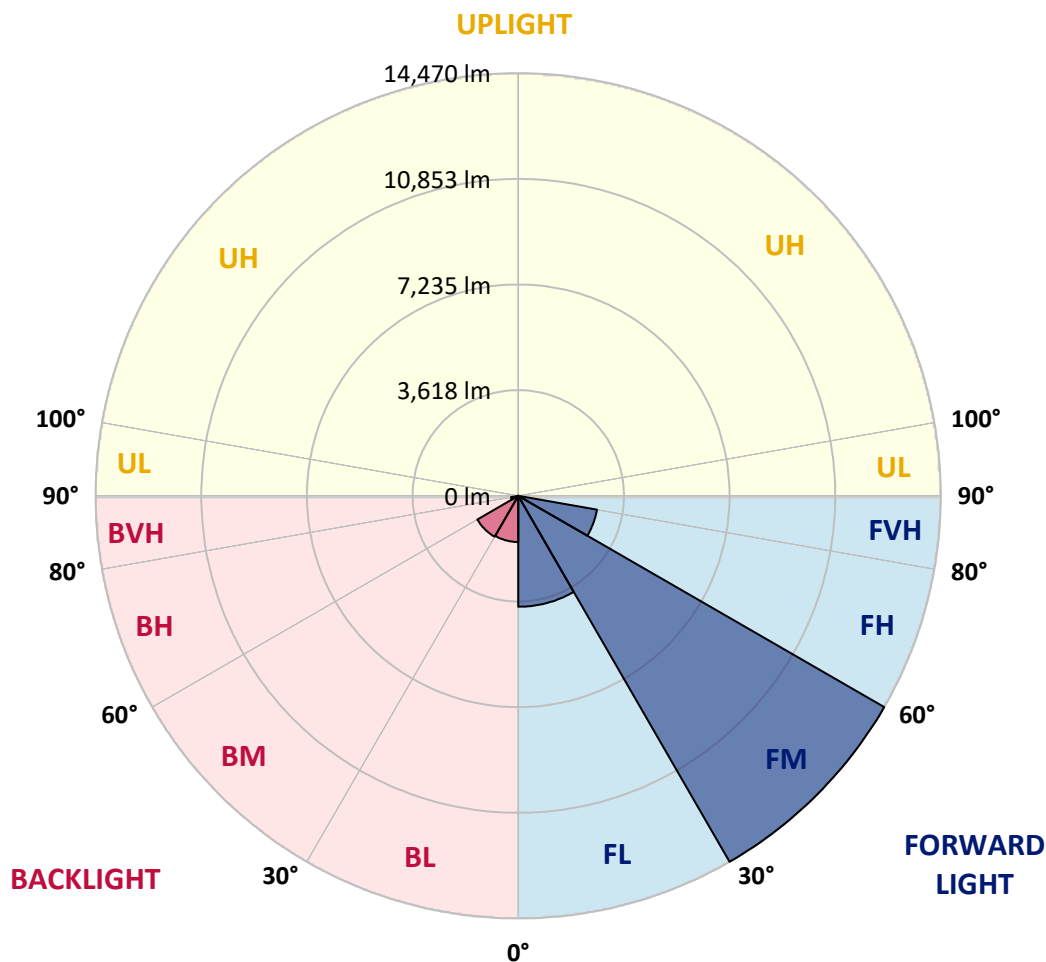


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3798.8	15.5			
FM (30°-60°)	14470.2	59.1			
FH (60°-80°)	2735.1	11.2			G2/5000
FVH (80°-90°)	9.5	0.0			G0/10
BL (0°-30°)	1581.7	6.5	B3/2500		
BM (30°-60°)	1617.2	6.6	B2/2500		
BH (60°-80°)	248.0	1.0	B1/500		G1/500
BVH (80°-90°)	11.5	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°	10780.2	10780.2	10780.2	10780.2	10780.2	10780.2	10780.2	10780.2	10780.2	10780.2	10780.2
2.5°	11408.2	11289.9	11299.0	11258.1	11203.4	11244.4	11066.9	11107.9	11103.3	10862.2	10702.9
5°	11121.5	11249.0	11117.0	11226.2	11121.5	11235.3	11126.1	11044.2	10912.2	10734.7	10439.0
7.5°	10634.6	10511.8	10548.2	10684.7	10707.4	10962.3	10825.8	10930.4	10875.8	10525.4	10120.4
10°	9656.3	9629.0	9811.0	9993.0	10216.0	10489.0	10593.7	10534.5	10493.6	10361.6	9820.1
12.5°	8905.4	8982.8	8978.2	9278.6	9656.3	9811.0	10084.0	10074.9	10302.4	10056.7	9537.9
15°	8191.0	8231.9	8423.1	8609.6	9028.3	9469.7	9806.4	9851.9	10125.0	9952.0	9319.5
17.5°	7754.1	7695.0	7845.1	8068.1	8495.9	9073.8	9446.9	9556.1	9929.3	9892.9	9069.2
20°	7321.8	7321.8	7444.7	7708.6	8100.0	8750.7	9415.1	9383.2	9929.3	9824.6	8800.8
22.5°	7176.2	7249.0	7280.9	7481.1	7945.3	8505.0	9278.6	9337.7	10006.7	9792.8	8682.4
25°	7376.4	7280.9	7290.0	7449.2	7886.1	8386.7	9178.5	9310.4	10147.7	9952.0	8586.9
27.5°	7408.3	7503.9	7531.2	7640.4	7931.6	8423.1	9428.7	9697.2	10498.1	10325.2	8614.2
30°	7685.9	7781.4	7776.9	7963.5	8163.7	8718.8	9988.5	10043.1	11221.6	10793.9	8782.6
32.5°	8022.6	8122.7	8154.6	8373.0	8532.3	9260.4	10671.0	10812.1	11917.9	11531.1	9224.0
35°	8441.3	8404.9	8550.5	8768.9	9110.2	10052.2	11503.8	11740.4	12668.7	12486.7	9679.0
37.5°	8964.6	8919.1	9060.1	9415.1	9879.2	10989.6	12272.8	12427.5	13214.8	13374.1	10520.9
40°	9333.2	9351.4	9779.1	10256.9	10748.4	11881.5	12759.7	12909.9	13597.0	14202.3	11157.9
42.5°	9947.5	10061.3	10575.5	11157.9	11672.2	12550.4	13155.6	13301.2	13774.5	14866.6	12018.0
45°	10839.4	10789.3	11358.2	12008.9	12577.7	13246.6	13624.3	13574.3	13879.2	15526.5	12559.5
47.5°	11986.1	11995.2	12372.9	12928.1	13519.7	13851.9	14147.7	13970.2	14097.6	16222.7	13283.0
50°	12768.8	12837.1	13142.0	13710.8	14006.6	14516.2	14893.9	14784.7	14743.8	16641.3	13738.1
52.5°	12969.1	13173.8	13337.7	14047.5	14739.2	15544.7	16027.0	16259.1	15531.0	16782.4	14316.0
55°	11458.3	11640.3	12218.2	13192.0	15016.8	17173.8	17838.1	17842.7	16559.4	17410.4	14721.0
57.5°	9160.3	8791.7	9146.6	10179.6	12696.0	17105.5	18720.9	18507.1	17073.7	17041.8	14370.6
60°	6334.4	6243.4	6266.1	6675.7	8787.1	13606.1	16682.3	16959.9	15722.1	14771.1	11376.4
62.5°	5019.3	4941.9	4841.8	4796.3	5456.1	8477.7	11767.7	12159.1	10994.1	9578.9	6743.9
65°	3931.7	3886.2	3899.8	4081.8	4077.3	4809.9	6434.5	6275.2	5023.8	3713.2	2120.6
67.5°	2653.0	2721.2	2775.8	3326.4	3608.6	3349.2	3108.0	3017.0	1633.6	687.1	468.7
70°	1492.6	1501.7	1560.8	2079.6	2739.4	2598.4	2143.3	2143.3	814.5	250.3	268.5
72.5°	814.5	787.2	732.6	896.5	1219.5	1237.7	955.6	832.8	241.2	163.8	150.2
75°	395.9	391.3	336.7	277.6	263.9	218.4	168.4	154.7	109.2	104.7	91.0
77.5°	81.9	77.4	41.0	41.0	45.5	50.1	63.7	63.7	77.4	77.4	63.7
80°	0.0	0.0	4.6	18.2	31.9	45.5	54.6	54.6	63.7	63.7	50.1
82.5°	0.0	0.0	4.6	13.7	27.3	41.0	50.1	54.6	63.7	68.3	54.6
85°	0.0	0.0	0.0	9.1	22.8	31.9	27.3	27.3	22.8	18.2	9.1
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°	10780.2	10780.2	10780.2	10780.2	10780.2	10780.2	10780.2	10780.2	10780.2	10780.2	10780.2
2.5°	10621.0	10611.9	10402.6	10284.2	10070.4	9883.8	9733.6	9624.4	9624.4	9556.1	9492.4
5°	10320.6	10243.3	9797.3	9510.6	9105.6	8805.3	8600.5	8441.3	8191.0	8259.2	7990.8
7.5°	9947.5	9751.8	9160.3	8723.4	8163.7	7735.9	7299.1	6912.3	6539.1	6370.8	6461.8
10°	9547.0	9205.8	8409.4	7717.7	7021.5	6238.8	5729.1	5110.3	4728.0	4705.3	4605.2
12.5°	9123.8	8737.0	7767.8	6812.2	5897.5	4955.5	4177.4	3599.5	3340.1	3053.4	3108.0
15°	8805.3	8231.9	7053.3	5902.1	4687.1	3736.0	2953.3	2507.4	2261.6	2193.4	2170.6
17.5°	8459.5	7845.1	6325.3	4932.8	3676.8	2689.4	2125.1	1911.2	1815.7	1815.7	1802.0
20°	8100.0	7408.3	5601.7	4031.8	2757.6	2006.8	1701.9	1633.6	1629.1	1624.5	1624.5
22.5°	7863.3	6907.7	4946.4	3203.6	2079.6	1606.3	1478.9	1451.6	1469.8	1524.4	1524.4
25°	7613.1	6425.4	4222.9	2470.9	1610.9	1378.8	1306.0	1324.2	1369.7	1419.8	1401.6
27.5°	7358.2	6111.4	3540.3	1938.5	1319.7	1205.9	1178.6	1219.5	1269.6	1315.1	1301.5
30°	7299.1	5774.6	2894.1	1469.8	1133.1	1051.2	1069.4	1105.8	1155.8	1174.0	1192.2
32.5°	7390.1	5510.7	2370.8	1205.9	987.5	964.7	964.7	982.9	1014.8	1055.7	1042.1
35°	7649.5	5360.5	1874.8	1046.6	905.6	882.8	878.3	896.5	914.7	928.3	914.7
37.5°	8045.4	5242.2	1533.5	928.3	851.0	814.5	805.4	800.9	819.1	823.6	832.8
40°	8550.5	5305.9	1301.5	855.5	796.3	755.4	728.1	728.1	728.1	741.7	746.3
42.5°	9096.5	5392.4	1124.0	814.5	746.3	696.2	668.9	659.8	668.9	687.1	682.6
45°	9669.9	5560.8	1010.2	750.8	700.8	637.1	600.7	591.6	614.3	650.7	646.2
47.5°	10206.9	5801.9	923.8	709.9	655.3	596.1	550.6	541.5	582.5	632.5	637.1
50°	10743.8	6220.6	891.9	678.0	623.4	555.2	514.2	505.1	550.6	614.3	628.0
52.5°	11362.7	6671.1	869.2	637.1	587.0	523.3	477.8	468.7	518.8	600.7	605.2
55°	11767.7	7053.3	851.0	564.3	518.8	473.3	436.9	432.3	486.9	559.7	577.9
57.5°	11294.5	6520.9	787.2	491.5	441.4	418.7	386.8	386.8	432.3	500.6	514.2
60°	8564.1	4291.2	559.7	395.9	373.1	359.5	345.8	345.8	382.2	432.3	436.9
62.5°	5014.7	2311.7	359.5	318.5	318.5	304.9	282.1	282.1	318.5	345.8	350.4
65°	1488.0	741.7	291.2	273.0	268.5	245.7	223.0	218.4	245.7	259.4	254.8
67.5°	427.8	341.3	241.2	227.5	223.0	186.6	172.9	168.4	172.9	163.8	159.3
70°	254.8	232.1	186.6	191.1	168.4	136.5	122.9	118.3	109.2	95.6	86.5
72.5°	141.1	141.1	136.5	145.6	118.3	91.0	77.4	63.7	50.1	41.0	36.4
75°	86.5	91.0	95.6	100.1	77.4	59.2	50.1	31.9	18.2	9.1	9.1
77.5°	59.2	63.7	68.3	72.8	63.7	54.6	41.0	22.8	4.6	0.0	0.0
80°	45.5	50.1	59.2	63.7	68.3	72.8	54.6	22.8	4.6	0.0	0.0
82.5°	50.1	54.6	68.3	63.7	63.7	63.7	50.1	22.8	4.6	0.0	0.0
85°	9.1	13.7	22.8	22.8	31.9	41.0	31.9	9.1	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)