

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: P531223

Luminaire Tested: **GALN-SA6C-730-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531223
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-SA6C-730-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 1050mA 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: 22203 lumens
Efficiency: N/A
Efficacy: 69.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

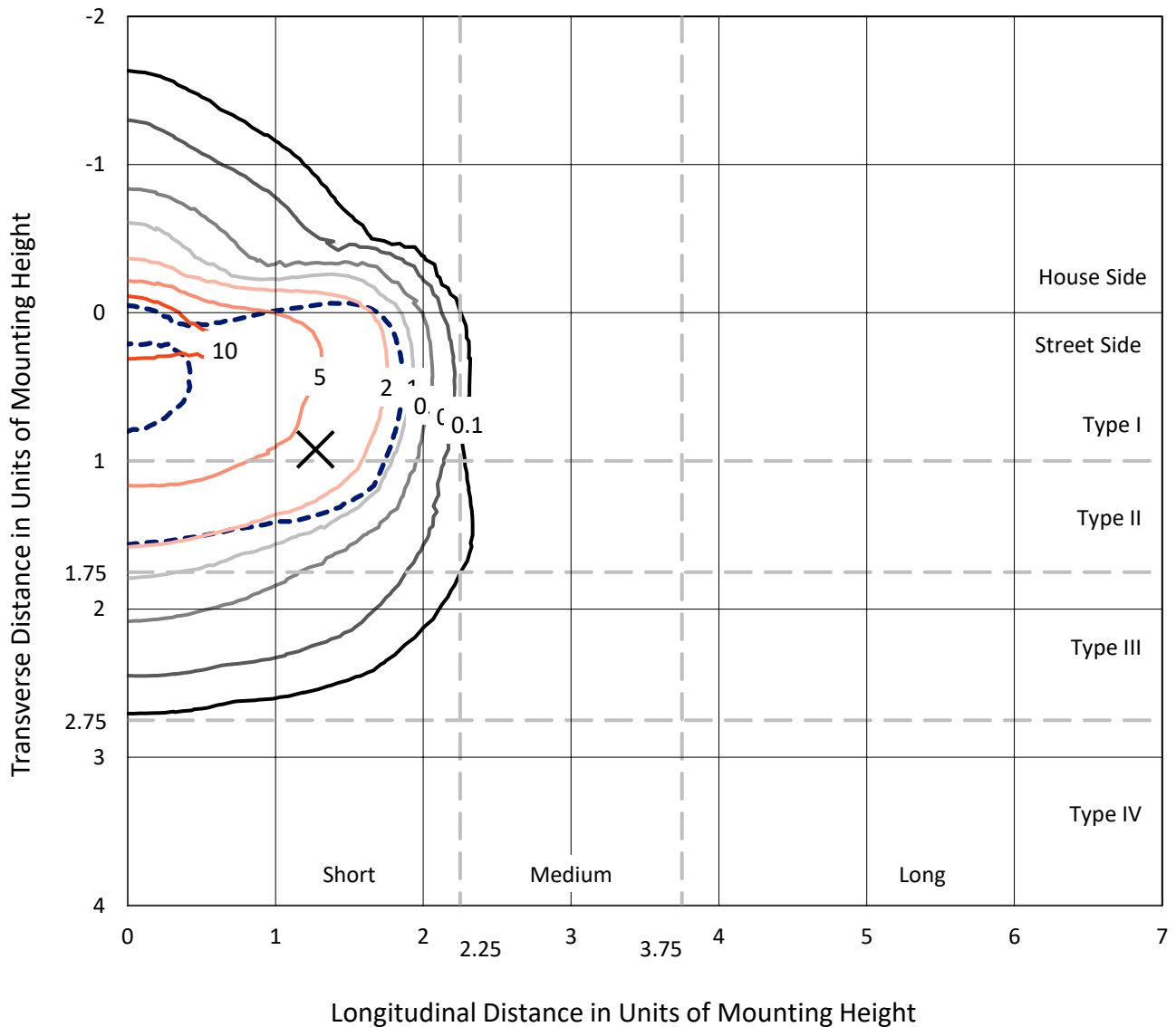
Input Watts (W): 321
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

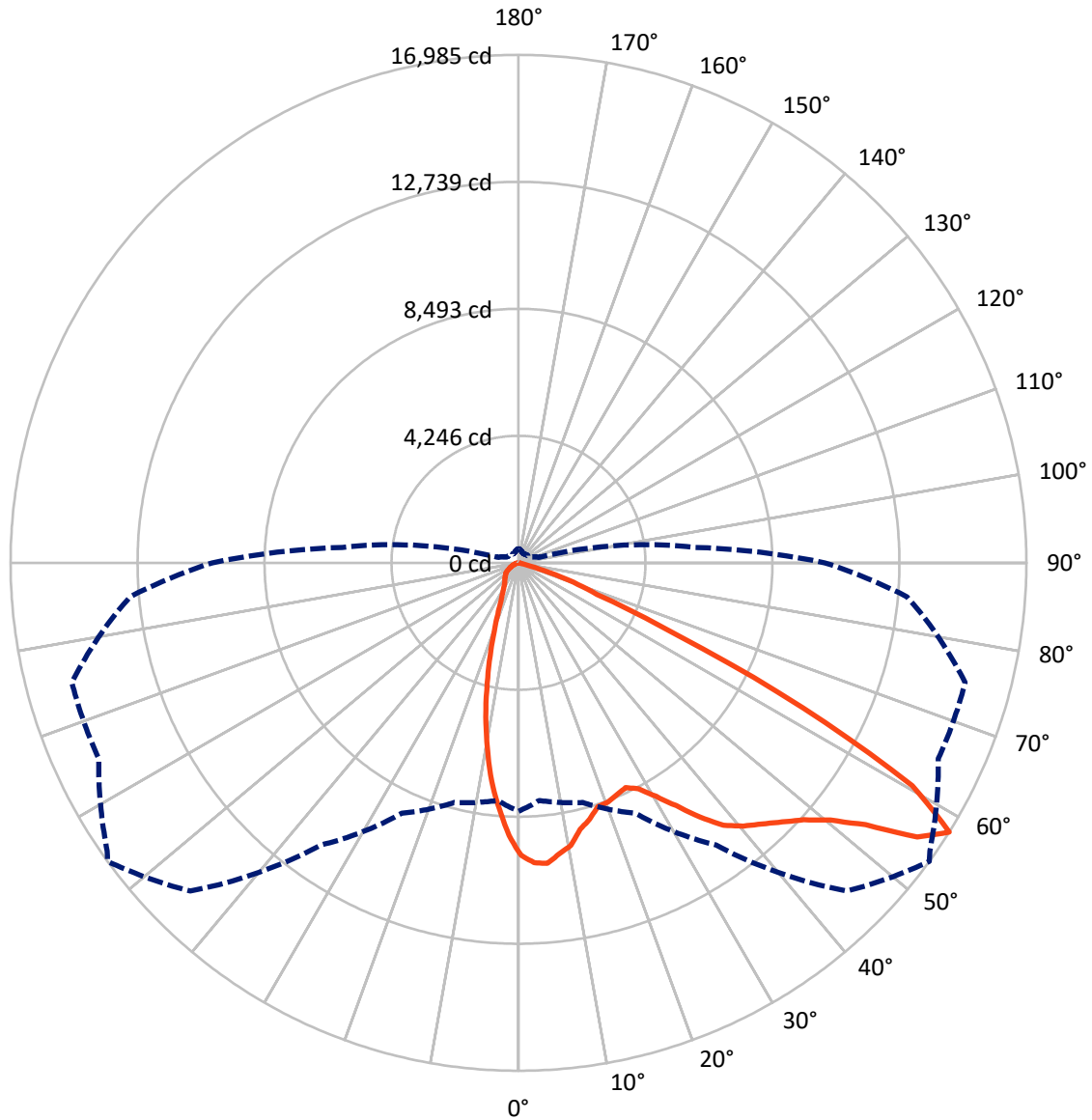
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.6 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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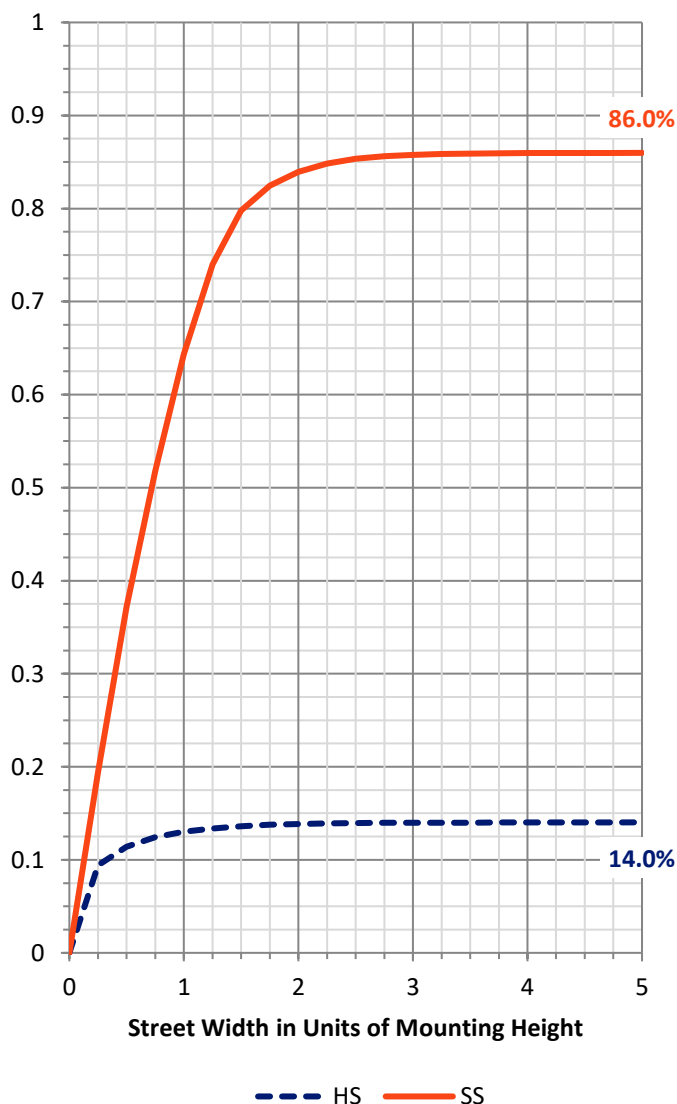
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3137.7	0.0	3137.7
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	19065.3	0.0	19065.3
	% Fixture	85.9	0.0	85.9
Total	Lumens	22203.0	0.0	22203.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	818.5	3.7
10°-20°	1747.4	7.9
20°-30°	2315.7	10.4
30°-40°	3365.3	15.2
40°-50°	4990.3	22.5
50°-60°	6240.2	28.1
60°-70°	2461.5	11.1
70°-80°	245.1	1.1
80°-90°	19.1	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°	22203.0	100.0
0°-180°	22203.0	100.0

Coefficient of Utilization



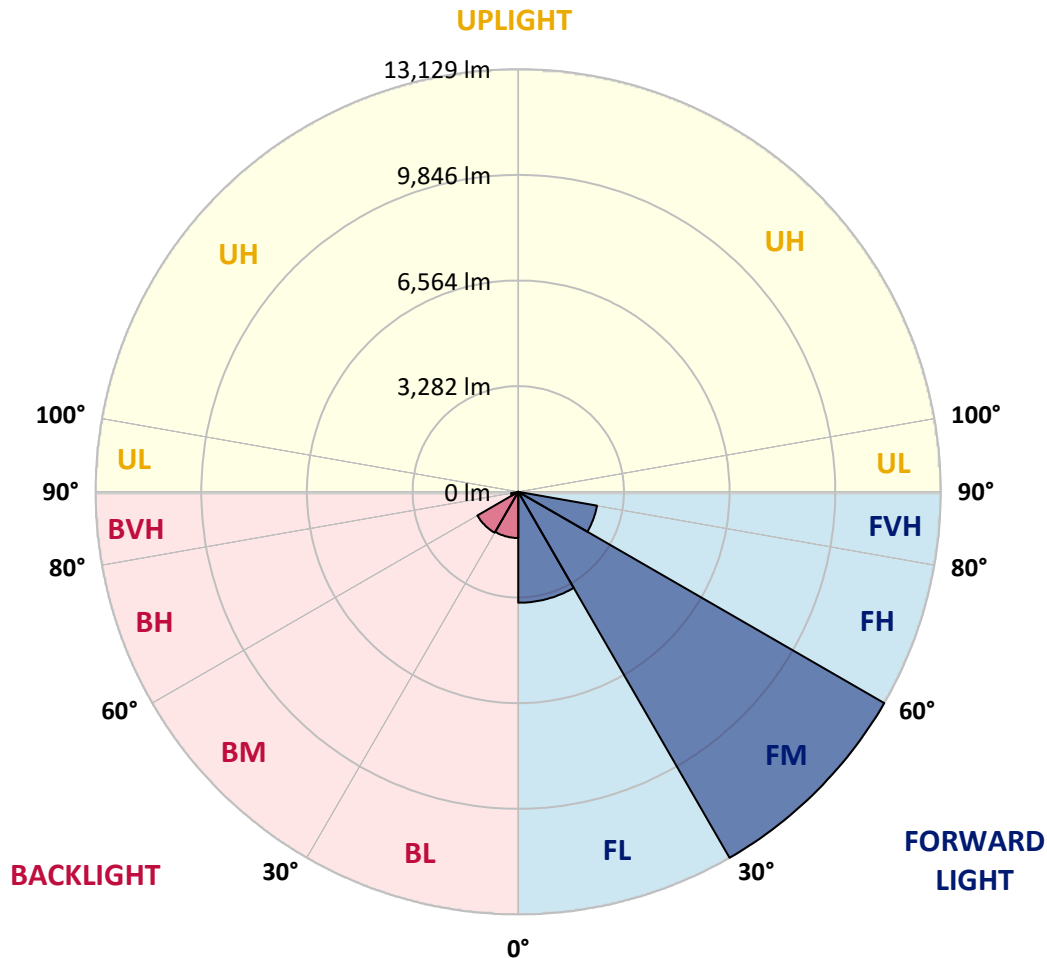
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3446.6	15.5			
FM (30°-60°)	13128.6	59.1			
FH (60°-80°)	2481.6	11.2			G2/5000
FVH (80°-90°)	8.7	0.0			G0/10
BL (0°-30°)	1435.0	6.5	B3/2500		
BM (30°-60°)	1467.3	6.6	B2/2500		
BH (60°-80°)	225.0	1.0	B1/500		G1/500
BVH (80°-90°)	10.4	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°	9780.7	9780.7	9780.7	9780.7	9780.7	9780.7	9780.7	9780.7	9780.7	9780.7	9780.7
2.5°	10350.5	10243.1	10251.4	10214.2	10164.7	10201.8	10040.8	10078.0	10073.9	9855.0	9710.5
5°	10090.4	10206.0	10086.2	10185.3	10090.4	10193.6	10094.5	10020.2	9900.5	9739.4	9471.1
7.5°	9648.6	9537.1	9570.2	9694.0	9714.7	9945.9	9822.0	9917.0	9867.4	9549.5	9182.1
10°	8760.9	8736.2	8901.3	9066.5	9268.8	9516.5	9611.4	9557.8	9520.6	9400.9	8909.6
12.5°	8079.7	8149.9	8145.8	8418.3	8760.9	8901.3	9149.0	9140.8	9347.2	9124.3	8653.6
15°	7431.5	7468.7	7642.1	7811.4	8191.2	8591.7	8897.2	8938.5	9186.2	9029.3	8455.4
17.5°	7035.2	6981.5	7117.8	7320.1	7708.1	8232.5	8571.0	8670.1	9008.7	8975.6	8228.4
20°	6643.0	6643.0	6754.4	6993.9	7349.0	7939.4	8542.1	8513.2	9008.7	8913.7	7984.8
22.5°	6510.8	6576.9	6605.8	6787.5	7208.6	7716.4	8418.3	8471.9	9078.9	8884.8	7877.4
25°	6692.5	6605.8	6614.1	6758.6	7154.9	7609.1	8327.4	8447.2	9206.8	9029.3	7790.7
27.5°	6721.4	6808.1	6832.9	6932.0	7196.2	7642.1	8554.5	8798.1	9524.7	9367.9	7815.5
30°	6973.3	7060.0	7055.8	7225.1	7406.8	7910.5	9062.3	9111.9	10181.2	9793.1	7968.3
32.5°	7278.8	7369.6	7398.5	7596.7	7741.2	8401.8	9681.6	9809.6	10812.9	10461.9	8368.7
35°	7658.6	7625.6	7757.7	7955.9	8265.5	9120.1	10437.2	10651.9	11494.1	11329.0	8781.6
37.5°	8133.4	8092.1	8220.1	8542.1	8963.3	9970.6	11134.9	11275.3	11989.5	12134.0	9545.4
40°	8467.8	8484.3	8872.4	9305.9	9751.8	10779.8	11576.7	11712.9	12336.3	12885.4	10123.4
42.5°	9025.2	9128.4	9594.9	10123.4	10589.9	11386.8	11935.9	12068.0	12497.4	13488.2	10903.7
45°	9834.4	9789.0	10305.1	10895.5	11411.5	12018.4	12361.1	12315.7	12592.3	14086.9	11395.0
47.5°	10874.8	10883.1	11225.7	11729.4	12266.2	12567.5	12835.9	12674.9	12790.5	14718.6	12051.5
50°	11584.9	11646.9	11923.5	12439.6	12707.9	13170.3	13513.0	13413.9	13376.8	15098.4	12464.3
52.5°	11766.6	11952.4	12101.0	12745.1	13372.6	14103.4	14541.0	14751.6	14091.0	15226.4	12988.7
55°	10395.9	10561.0	11085.4	11968.9	13624.5	15581.4	16184.2	16188.4	15024.1	15796.1	13356.1
57.5°	8310.9	7976.5	8298.5	9235.7	11518.9	15519.5	16985.2	16791.1	15490.6	15461.7	13038.2
60°	5747.1	5664.5	5685.1	6056.7	7972.4	12344.6	15135.6	15387.4	14264.4	13401.5	10321.6
62.5°	4553.9	4483.7	4392.9	4351.6	4950.2	7691.6	10676.6	11031.7	9974.8	8690.8	6118.6
65°	3567.1	3525.8	3538.2	3703.4	3699.3	4364.0	5837.9	5693.4	4558.0	3369.0	1923.9
67.5°	2407.0	2468.9	2518.5	3018.0	3274.0	3038.7	2819.9	2737.3	1482.2	623.4	425.2
70°	1354.2	1362.4	1416.1	1886.8	2485.4	2357.4	1944.6	1944.6	739.0	227.1	243.6
72.5°	739.0	714.3	664.7	813.3	1106.5	1123.0	867.0	755.5	218.8	148.6	136.2
75°	359.2	355.1	305.5	251.8	239.5	198.2	152.8	140.4	99.1	95.0	82.6
77.5°	74.3	70.2	37.2	37.2	41.3	45.4	57.8	57.8	70.2	70.2	57.8
80°	0.0	0.0	4.1	16.5	28.9	41.3	49.5	49.5	57.8	57.8	45.4
82.5°	0.0	0.0	4.1	12.4	24.8	37.2	45.4	49.5	57.8	61.9	49.5
85°	0.0	0.0	0.0	8.3	20.6	28.9	24.8	24.8	20.6	16.5	8.3
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°	9780.7	9780.7	9780.7	9780.7	9780.7	9780.7	9780.7	9780.7	9780.7	9780.7	9780.7
2.5°	9636.2	9628.0	9438.0	9330.7	9136.7	8967.4	8831.1	8732.0	8732.0	8670.1	8612.3
5°	9363.7	9293.5	8888.9	8628.8	8261.4	7988.9	7803.1	7658.6	7431.5	7493.5	7249.9
7.5°	9025.2	8847.7	8310.9	7914.6	7406.8	7018.7	6622.3	6271.4	5932.8	5780.1	5862.7
10°	8661.9	8352.2	7629.7	7002.2	6370.5	5660.3	5197.9	4636.4	4289.6	4269.0	4178.2
12.5°	8277.9	7927.0	7047.6	6180.6	5350.7	4496.1	3790.1	3265.7	3030.4	2770.3	2819.9
15°	7988.9	7468.7	6399.4	5354.8	4252.5	3389.6	2679.5	2274.9	2051.9	1990.0	1969.4
17.5°	7675.1	7117.8	5738.8	4475.4	3335.9	2440.0	1928.1	1734.0	1647.3	1647.3	1634.9
20°	7349.0	6721.4	5082.3	3658.0	2501.9	1820.7	1544.1	1482.2	1478.0	1473.9	1473.9
22.5°	7134.3	6267.3	4487.8	2906.6	1886.8	1457.4	1341.8	1317.0	1333.5	1383.1	1383.1
25°	6907.2	5829.6	3831.4	2241.8	1461.5	1251.0	1184.9	1201.4	1242.7	1288.1	1271.6
27.5°	6676.0	5544.7	3212.1	1758.8	1197.3	1094.1	1069.3	1106.5	1151.9	1193.2	1180.8
30°	6622.3	5239.2	2625.8	1333.5	1028.0	953.7	970.2	1003.3	1048.7	1065.2	1081.7
32.5°	6704.9	4999.8	2151.0	1094.1	895.9	875.3	875.3	891.8	920.7	957.8	945.5
35°	6940.2	4863.5	1701.0	949.6	821.6	801.0	796.8	813.3	829.9	842.2	829.9
37.5°	7299.4	4756.2	1391.3	842.2	772.1	739.0	730.8	726.6	743.2	747.3	755.5
40°	7757.7	4814.0	1180.8	776.2	722.5	685.4	660.6	660.6	660.6	673.0	677.1
42.5°	8253.1	4892.4	1019.8	739.0	677.1	631.7	606.9	598.7	606.9	623.4	619.3
45°	8773.3	5045.2	916.6	681.2	635.8	578.0	545.0	536.7	557.4	590.4	586.3
47.5°	9260.5	5264.0	838.1	644.1	594.5	540.9	499.6	491.3	528.5	573.9	578.0
50°	9747.7	5643.8	809.2	615.2	565.6	503.7	466.5	458.3	499.6	557.4	569.8
52.5°	10309.2	6052.6	788.6	578.0	532.6	474.8	433.5	425.2	470.7	545.0	549.1
55°	10676.6	6399.4	772.1	511.9	470.7	429.4	396.3	392.2	441.8	507.8	524.3
57.5°	10247.3	5916.3	714.3	445.9	400.5	379.8	350.9	350.9	392.2	454.1	466.5
60°	7770.1	3893.3	507.8	359.2	338.5	326.2	313.8	313.8	346.8	392.2	396.3
62.5°	4549.7	2097.3	326.2	289.0	289.0	276.6	256.0	256.0	289.0	313.8	317.9
65°	1350.1	673.0	264.2	247.7	243.6	222.9	202.3	198.2	222.9	235.3	231.2
67.5°	388.1	309.6	218.8	206.4	202.3	169.3	156.9	152.8	156.9	148.6	144.5
70°	231.2	210.6	169.3	173.4	152.8	123.9	111.5	107.3	99.1	86.7	78.4
72.5°	128.0	128.0	123.9	132.1	107.3	82.6	70.2	57.8	45.4	37.2	33.0
75°	78.4	82.6	86.7	90.8	70.2	53.7	45.4	28.9	16.5	8.3	8.3
77.5°	53.7	57.8	61.9	66.1	57.8	49.5	37.2	20.6	4.1	0.0	0.0
80°	41.3	45.4	53.7	57.8	61.9	66.1	49.5	20.6	4.1	0.0	0.0
82.5°	45.4	49.5	61.9	57.8	57.8	57.8	45.4	20.6	4.1	0.0	0.0
85°	8.3	12.4	20.6	20.6	28.9	37.2	28.9	8.3	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)