

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: P530061

Luminaire Tested: **GALN-SA5B-730-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530061
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5B-730-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17164 lumens
Efficiency: N/A
Efficacy: 84.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B2 - U0 - G1

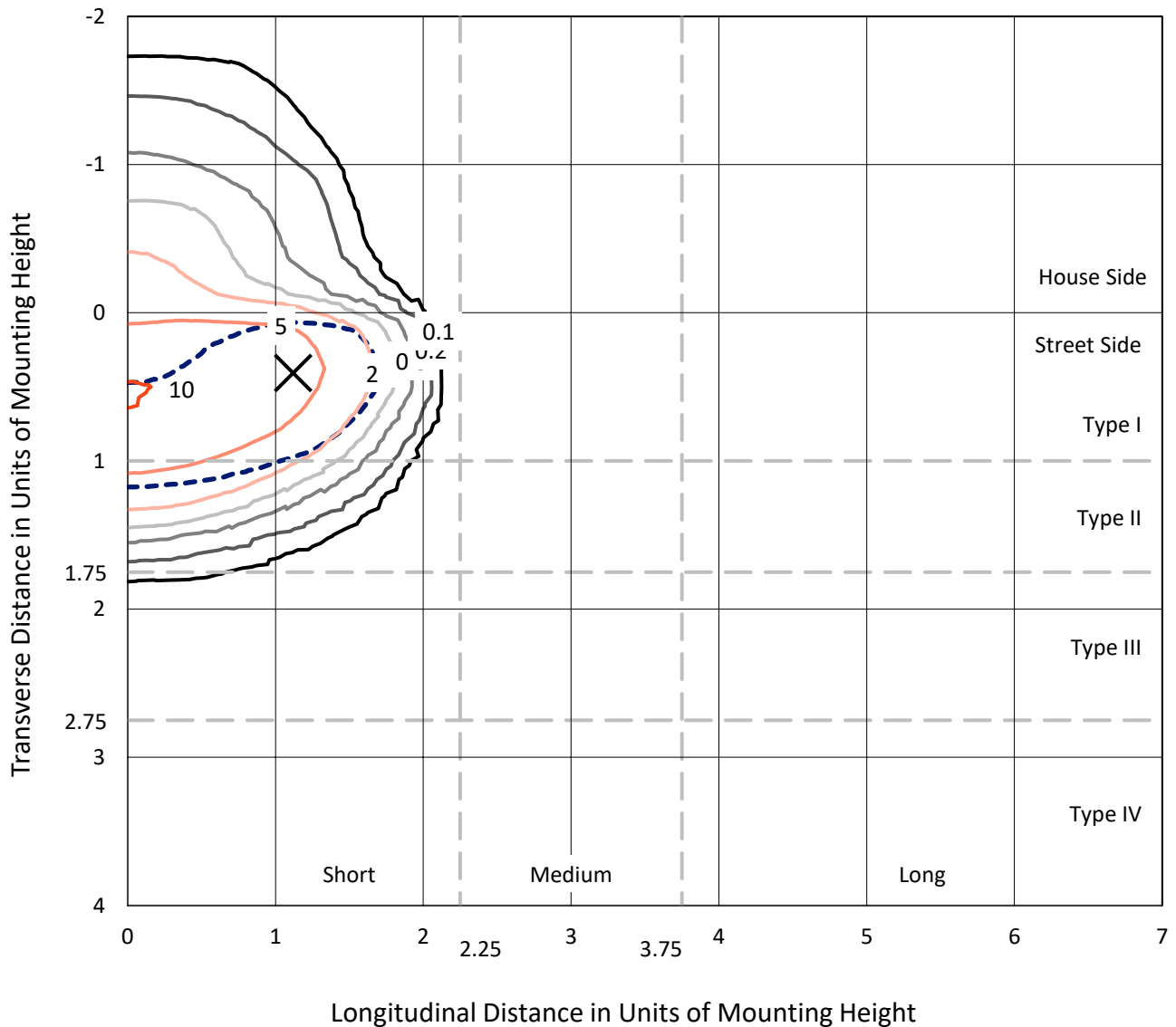
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

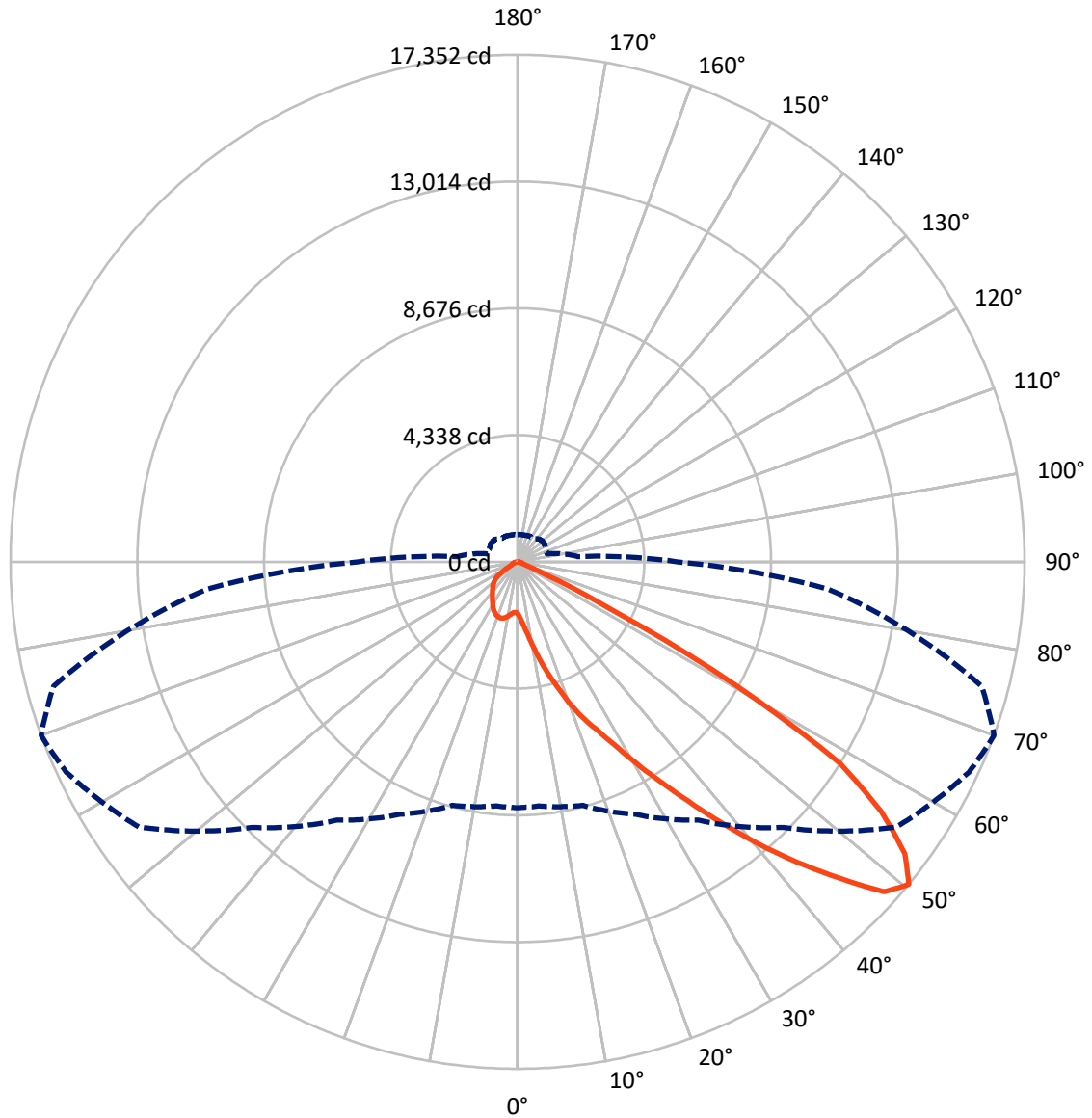
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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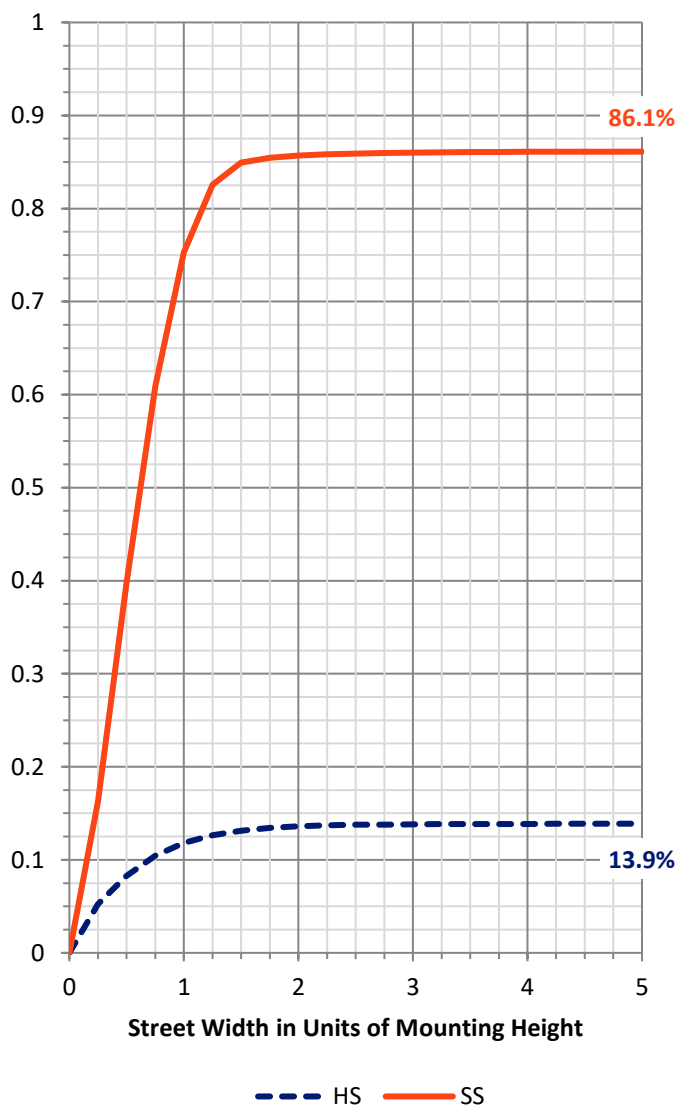
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2397.1	0.0	2397.1
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	14766.9	0.0	14766.9
	% Fixture	86.0	0.0	86.0
Total	Lumens	17164.0	0.0	17164.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	231.2	1.3
10°-20°	1000.0	5.8
20°-30°	2097.9	12.2
30°-40°	3616.1	21.1
40°-50°	5284.8	30.8
50°-60°	4116.0	24.0
60°-70°	697.4	4.1
70°-80°	95.8	0.6
80°-90°	24.8	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°	17164.0	100.0
0°-180°	17164.0	100.0

Coefficient of Utilization



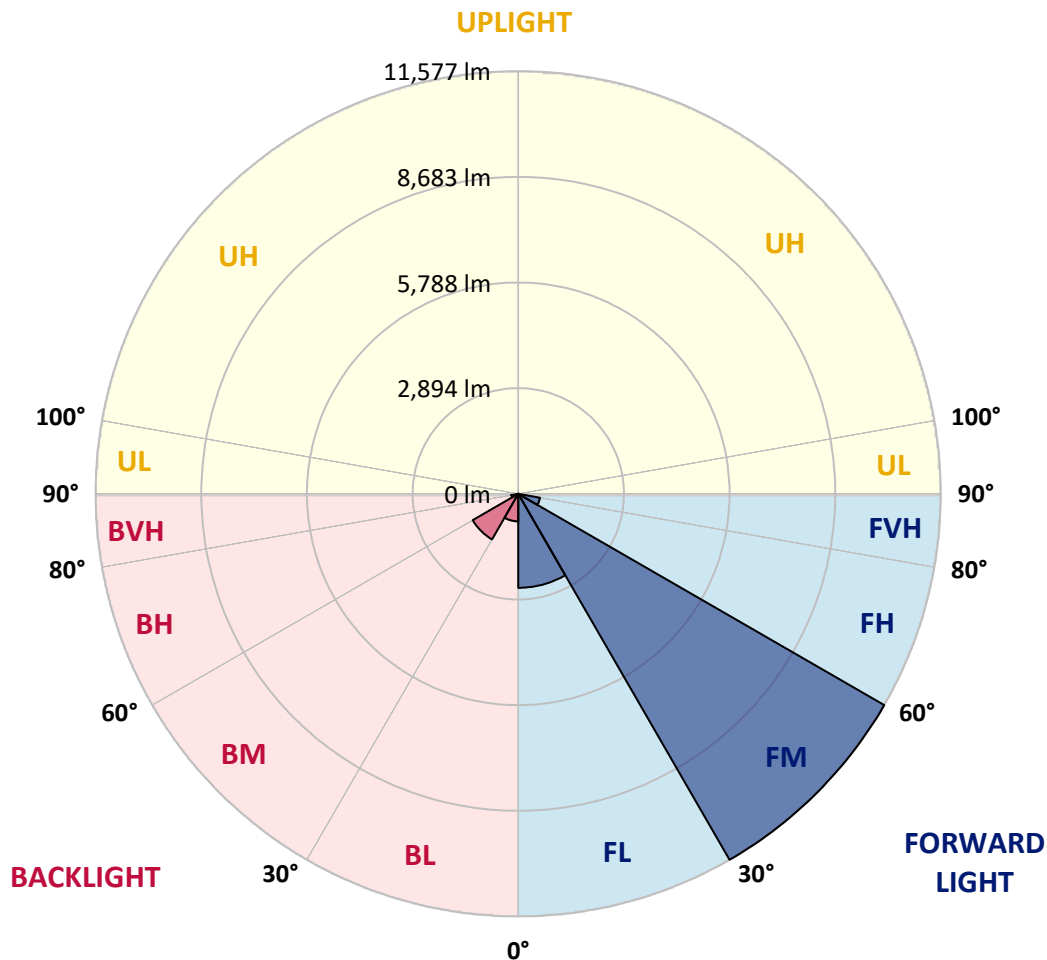
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2574.8	15.0			
FM (30°-60°)	11576.8	67.4			
FH (60°-80°)	603.8	3.5			G0/660
FVH (80°-90°)	11.5	0.1			G1/100
BL (0°-30°)	754.3	4.4	B2/1000		
BM (30°-60°)	1440.1	8.4	B2/2500		
BH (60°-80°)	189.3	1.1	B1/500		G1/500
BVH (80°-90°)	13.3	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	1777.9	1777.9	1777.9	1777.9	1777.9	1777.9	1777.9	1777.9	1777.9	1777.9	1777.9
2.5°	2328.1	2311.2	2274.5	2206.8	2178.6	2110.8	2071.3	1995.1	1947.2	1893.6	1834.3
5°	3279.2	3191.7	3138.1	3061.9	2838.9	2700.6	2472.1	2277.3	2187.0	2088.3	1952.8
7.5°	4261.2	4204.8	4131.4	3967.7	3815.3	3527.5	3135.2	2706.3	2522.9	2353.5	2085.4
10°	5073.9	4915.9	4907.4	4786.1	4619.6	4275.3	3804.0	3270.7	2943.3	2695.0	2274.5
12.5°	5641.2	5497.2	5562.1	5548.0	5392.8	5076.8	4532.1	3826.6	3485.2	3098.5	2469.2
15°	6157.6	6098.3	6078.6	6061.6	5999.5	5765.3	5277.1	4503.9	4010.0	3544.4	2689.4
17.5°	6662.7	6510.3	6583.7	6597.8	6592.2	6380.5	5923.4	5147.3	4566.0	4015.7	2920.8
20°	7111.4	7125.5	7026.8	7007.0	6990.1	6981.6	6535.7	5785.1	5248.9	4509.5	3222.7
22.5°	7687.1	7588.3	7675.8	7619.4	7509.3	7441.6	7100.1	6349.5	5841.5	5105.0	3530.3
25°	8367.2	8446.2	8240.2	8217.6	8096.3	7862.1	7554.5	6981.6	6411.6	5658.1	3863.3
27.5°	9205.3	9067.0	9013.4	8889.3	8669.1	8570.4	8209.2	7633.5	7100.1	6239.4	4185.0
30°	9924.9	9888.2	9620.2	9473.4	9281.5	9278.7	8773.6	8516.8	7997.5	7150.9	4628.1
32.5°	10511.9	10351.1	10252.3	10150.7	9995.5	10037.8	9611.7	9476.2	8954.2	7997.5	5150.1
35°	10904.2	10788.5	10729.2	10574.0	10528.8	10717.9	10540.1	10483.7	10054.7	9188.4	5762.5
37.5°	11028.3	11065.0	11053.7	10859.0	10955.0	11465.7	11694.3	11547.6	11321.8	10444.2	6425.7
40°	11138.4	11163.8	11107.3	11335.9	11609.7	12191.0	13017.8	12775.1	12690.5	11716.9	7348.5
42.5°	11200.5	11180.7	11180.7	11575.8	11990.6	13158.9	14296.2	14135.3	14070.4	13071.4	8415.2
45°	10932.4	10740.5	10946.5	11482.7	12318.0	13635.8	15317.8	15540.7	15447.6	14682.8	9662.5
47.5°	9930.6	10049.1	10164.8	10881.6	11920.1	13489.1	15944.2	16703.3	16875.5	16037.4	10480.9
50°	8415.2	8389.8	8629.6	9532.7	10794.1	12857.0	15822.9	17039.2	17352.4	16443.7	10653.0
52.5°	6120.9	6307.1	6566.8	7464.2	8959.8	11220.2	14256.7	16172.8	16590.5	15944.2	10540.1
55°	3564.2	3358.2	3942.3	4701.4	6112.4	8463.1	12052.7	14335.7	15108.9	15035.6	9970.1
57.5°	1427.9	1382.8	1583.1	2133.4	3188.8	5246.1	8765.1	11779.0	13017.8	13771.3	8762.3
60°	626.5	612.4	719.6	869.2	1303.8	2418.4	4794.6	7325.9	8618.4	9623.0	6030.6
62.5°	451.5	445.9	499.5	553.1	688.6	1052.6	2014.9	2951.8	3679.9	4444.6	2700.6
65°	364.0	378.1	414.8	443.1	508.0	584.2	711.1	821.2	1007.4	1044.1	595.4
67.5°	296.3	307.6	341.5	372.5	383.8	316.1	327.4	287.8	287.8	256.8	206.0
70°	217.3	220.1	259.6	296.3	237.0	127.0	222.9	222.9	200.4	191.9	175.0
72.5°	160.9	163.7	194.7	183.4	93.1	79.0	163.7	180.6	163.7	155.2	141.1
75°	118.5	121.3	101.6	42.3	39.5	50.8	95.9	124.2	118.5	115.7	107.2
77.5°	22.6	16.9	14.1	19.8	28.2	42.3	62.1	76.2	79.0	84.7	79.0
80°	2.8	2.8	8.5	16.9	31.0	45.2	64.9	73.4	76.2	79.0	73.4
82.5°	0.0	2.8	8.5	16.9	31.0	42.3	56.4	64.9	70.5	73.4	70.5
85°	0.0	2.8	5.6	14.1	25.4	31.0	28.2	19.8	16.9	19.8	14.1
87.5°	0.0	0.0	2.8	2.8	5.6	5.6	5.6	5.6	5.6	5.6	5.6
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°	1777.9	1777.9	1777.9	1777.9	1777.9	1777.9	1777.9	1777.9	1777.9	1777.9	1777.9
2.5°	1800.4	1789.1	1749.6	1707.3	1670.6	1687.5	1670.6	1656.5	1662.2	1656.5	1650.9
5°	1899.2	1848.4	1763.7	1727.1	1696.0	1693.2	1684.7	1681.9	1684.7	1684.7	1659.3
7.5°	1992.3	1910.5	1820.2	1780.7	1744.0	1746.8	1727.1	1727.1	1724.2	1710.1	1704.5
10°	2133.4	2023.4	1907.7	1837.1	1792.0	1783.5	1763.7	1744.0	1744.0	1744.0	1715.8
12.5°	2288.6	2150.4	1992.3	1910.5	1856.9	1814.5	1783.5	1777.9	1746.8	1741.2	1727.1
15°	2424.1	2249.1	2048.8	1935.9	1868.2	1811.7	1763.7	1732.7	1718.6	1710.1	1698.8
17.5°	2556.7	2333.8	2079.8	1935.9	1862.5	1797.6	1746.8	1718.6	1684.7	1690.4	1667.8
20°	2734.5	2424.1	2088.3	1899.2	1808.9	1746.8	1679.1	1665.0	1645.2	1628.3	1633.9
22.5°	2906.6	2489.0	2062.9	1854.0	1724.2	1650.9	1617.0	1600.1	1591.6	1577.5	1557.7
25°	3061.9	2559.5	2023.4	1772.2	1633.9	1580.3	1549.3	1546.4	1526.7	1526.7	1490.0
27.5°	3219.9	2584.9	1955.6	1676.3	1554.9	1523.9	1509.8	1504.1	1495.7	1475.9	1450.5
30°	3400.5	2593.4	1856.9	1577.5	1484.4	1450.5	1470.3	1484.4	1447.7	1411.0	1422.3
32.5°	3550.1	2573.7	1738.3	1484.4	1433.6	1416.6	1456.1	1470.3	1427.9	1388.4	1368.7
35°	3730.7	2525.7	1622.6	1411.0	1382.8	1416.6	1450.5	1450.5	1365.8	1317.9	1306.6
37.5°	4004.4	2472.1	1515.4	1348.9	1329.2	1399.7	1444.9	1413.8	1281.2	1221.9	1207.8
40°	4297.9	2438.2	1411.0	1286.8	1300.9	1371.5	1396.9	1300.9	1165.5	1128.8	1117.5
42.5°	4724.0	2370.5	1317.9	1233.2	1275.5	1332.0	1332.0	1159.8	1109.0	1089.3	1086.5
45°	5254.5	2322.5	1236.0	1188.1	1238.9	1253.0	1207.8	1086.5	1049.8	1044.1	1047.0
47.5°	5514.2	2229.4	1151.4	1134.4	1171.1	1173.9	1055.4	1027.2	996.2	987.7	982.1
50°	5474.7	2062.9	1041.3	1063.9	1114.7	1086.5	962.3	967.9	939.7	936.9	922.8
52.5°	5198.1	1800.4	931.3	984.9	1041.3	959.5	886.1	880.5	880.5	843.8	829.7
55°	4608.3	1450.5	798.6	866.4	934.1	807.1	787.3	781.7	767.6	733.7	725.3
57.5°	3648.8	1063.9	601.1	674.5	793.0	685.7	682.9	657.5	620.8	595.4	595.4
60°	2170.1	612.4	378.1	412.0	524.9	555.9	618.0	606.7	544.6	505.1	493.8
62.5°	990.5	316.1	239.9	245.5	282.2	361.2	485.4	561.6	474.1	406.4	400.7
65°	333.0	234.2	197.5	189.1	194.7	217.3	290.7	397.9	378.1	313.2	302.0
67.5°	203.2	208.8	186.3	172.1	172.1	169.3	166.5	180.6	222.9	217.3	220.1
70°	175.0	191.9	172.1	155.2	149.6	141.1	118.5	98.8	84.7	98.8	104.4
72.5°	141.1	152.4	146.7	132.6	118.5	107.2	84.7	64.9	48.0	42.3	42.3
75°	104.4	112.9	118.5	101.6	90.3	76.2	62.1	42.3	25.4	16.9	16.9
77.5°	76.2	84.7	87.5	79.0	67.7	53.6	39.5	28.2	14.1	5.6	5.6
80°	64.9	76.2	84.7	79.0	70.5	50.8	36.7	19.8	11.3	2.8	2.8
82.5°	62.1	76.2	84.7	76.2	67.7	48.0	36.7	22.6	8.5	2.8	2.8
85°	14.1	19.8	25.4	31.0	36.7	36.7	28.2	16.9	8.5	2.8	2.8
87.5°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	2.8	2.8	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)