

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P640200

Luminaire Tested: GWS-SA5D-735-U-T2R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640200
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-11)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5D-735-U-T2R-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: (80) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30212.2 lumens
Efficiency: N/A
Efficacy: 147.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

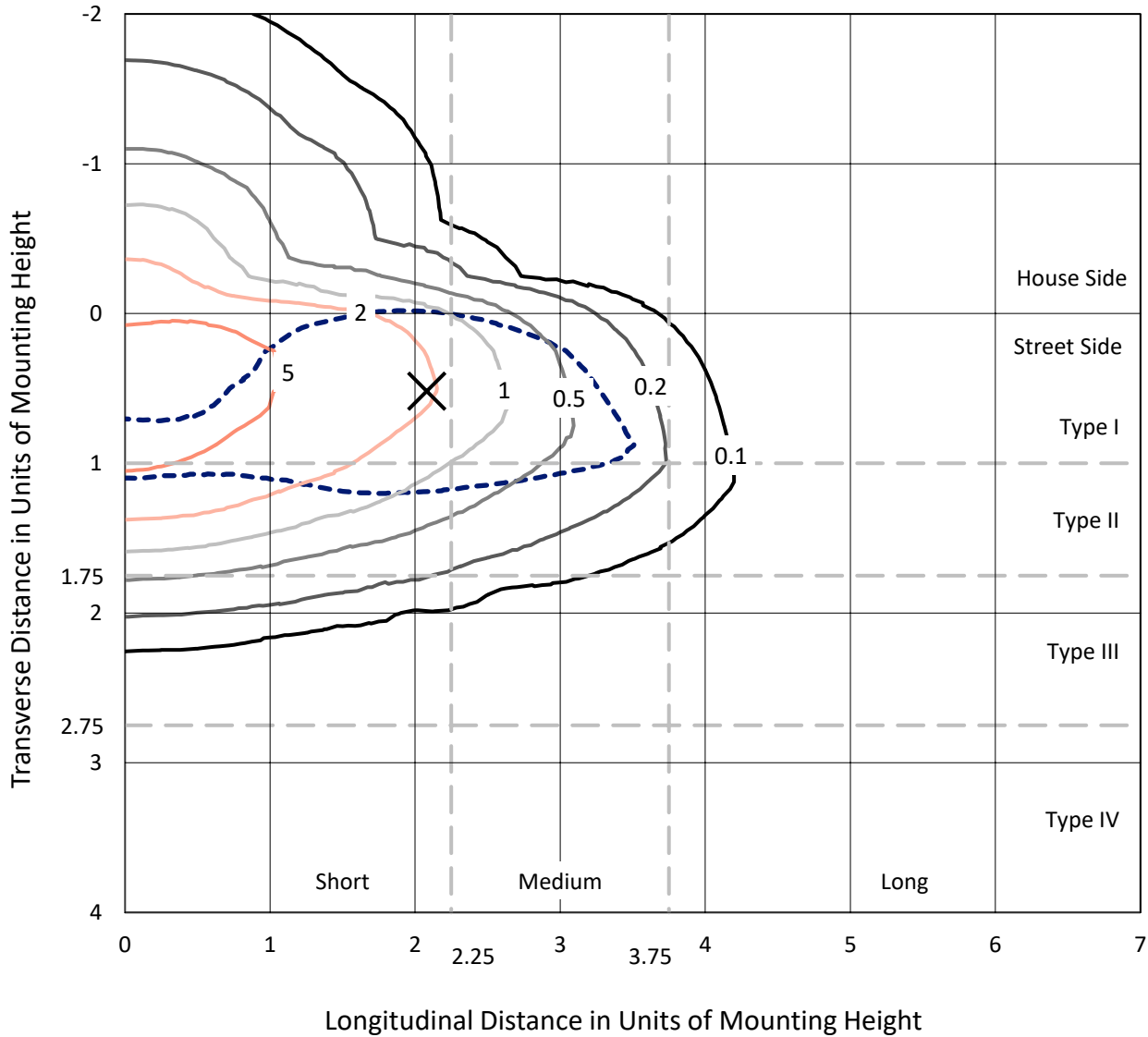
Input Watts (W): 204.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

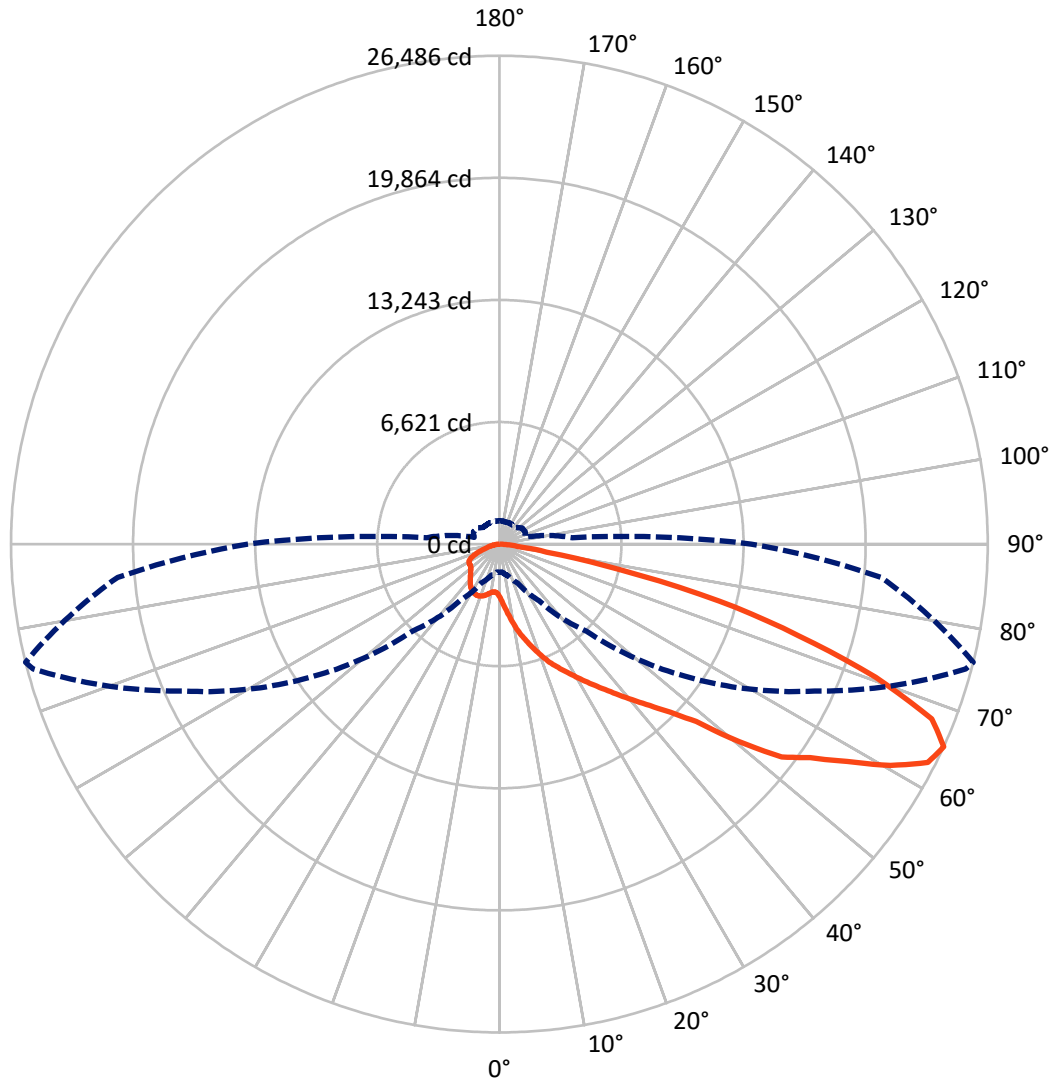
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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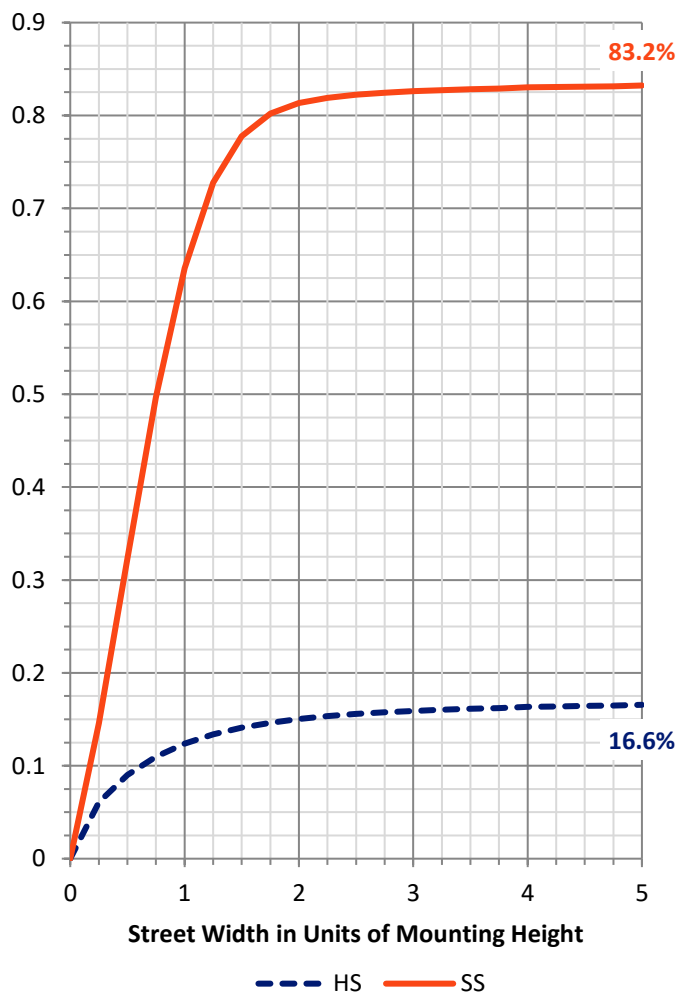
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5050.0	0.0	5050.0
	% Fixture	16.7	0.0	16.7
Street Side	Lumens	25162.2	0.0	25162.2
	% Fixture	83.3	0.0	83.3
Total	Lumens	30212.2	0.0	30212.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	339.9	1.1
10°-20°	1294.6	4.3
20°-30°	2523.1	8.4
30°-40°	4219.7	14.0
40°-50°	6041.8	20.0
50°-60°	7152.6	23.7
60°-70°	5947.5	19.7
70°-80°	2433.9	8.1
80°-90°	259.1	0.9
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°	30212.2	100.0
0°-180°	30212.2	100.0

Coefficient of Utilization



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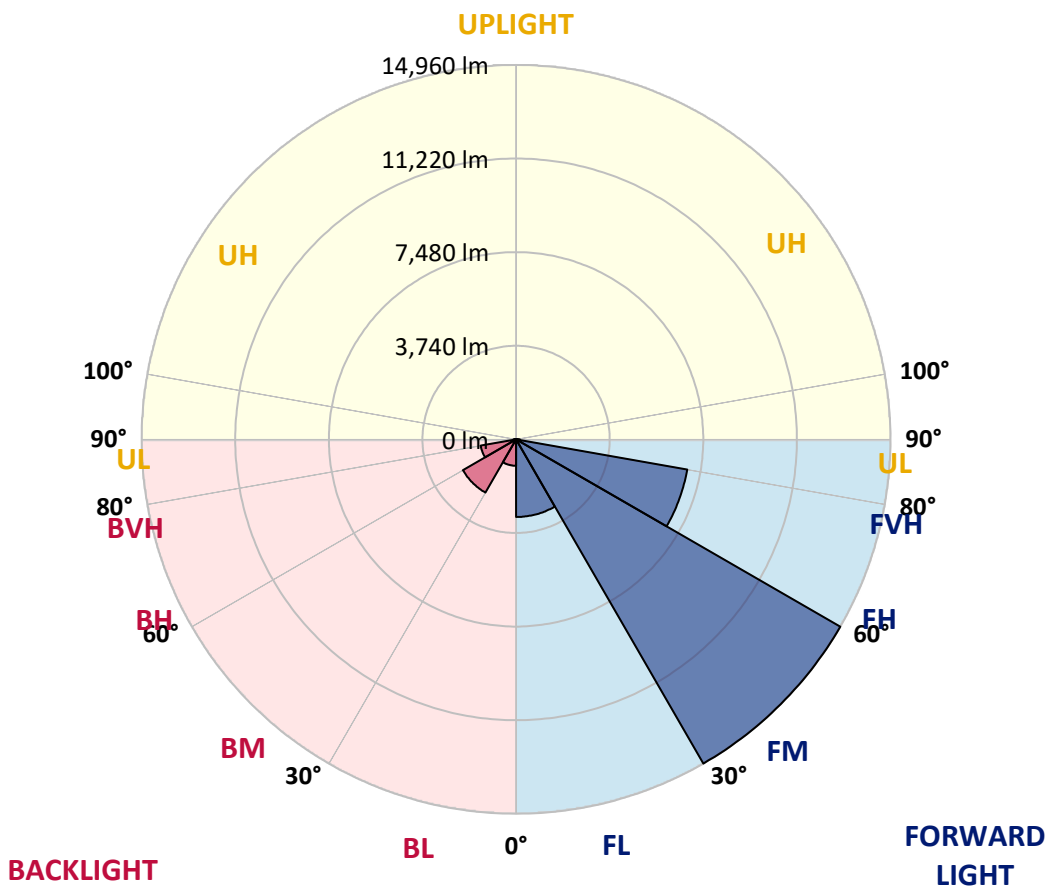
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3101.2	10.3			
FM (30°-60°)	14959.9	49.5			
FH (60°-80°)	6946.6	23.0			G3/7500
FVH (80°-90°)	154.5	0.5			G2/225
BL (0°-30°)	1056.5	3.5	B3/2500		
BM (30°-60°)	2454.2	8.1	B2/2500		
BH (60°-80°)	1434.8	4.7	B3/2500		G3/2500
BVH (80°-90°)	104.6	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2861.0	2861.0	2861.0	2861.0	2861.0	2861.0	2861.0	2861.0	2861.0	2861.0	2861.0
2.5°	4010.0	4024.9	3976.1	3959.1	3844.4	3689.3	3559.8	3364.4	3183.8	3156.2	2994.8
5°	5093.3	5029.6	4974.3	4938.2	4778.9	4602.6	4328.6	3961.2	3576.8	3530.0	3181.7
7.5°	5736.8	5726.2	5658.2	5637.0	5513.8	5337.5	5055.0	4598.4	4039.8	3963.3	3434.5
10°	6253.0	6246.6	6212.6	6231.7	6119.1	5947.1	5673.1	5201.6	4547.4	4471.0	3716.9
12.5°	6703.2	6713.9	6707.5	6777.6	6720.2	6586.4	6301.8	5783.6	5055.0	4972.2	4061.0
15°	7032.5	7041.0	7072.8	7225.7	7257.6	7230.0	6941.1	6354.9	5556.3	5437.4	4415.7
17.5°	7125.9	7142.9	7219.4	7465.7	7637.8	7752.5	7538.0	6936.9	6049.1	5919.5	4776.8
20°	7251.2	7270.3	7346.8	7603.8	7856.6	8117.8	8079.6	7527.3	6546.1	6439.9	5142.1
22.5°	7831.1	7816.2	7782.2	7905.4	8085.9	8410.9	8506.5	8094.4	7060.1	6958.1	5545.7
25°	8948.3	8920.7	8704.0	8591.4	8532.0	8729.5	8899.4	8610.6	7561.3	7408.4	5921.6
27.5°	10180.2	10165.3	9889.2	9621.6	9256.2	9171.3	9271.1	9060.8	8047.7	7892.7	6248.7
30°	11346.2	11301.6	11012.8	10677.2	10188.7	9823.3	9676.8	9502.6	8580.8	8419.4	6631.0
32.5°	12389.1	12331.8	11991.9	11620.2	11108.3	10677.2	10239.6	9972.0	9184.0	8997.1	7021.8
35°	13245.1	13187.7	12839.4	12444.3	11881.5	11562.9	10963.9	10481.8	9797.9	9608.8	7482.7
37.5°	13907.7	13854.6	13491.4	13102.8	12612.1	12359.4	11839.0	11055.2	10505.1	10307.6	7971.2
40°	14279.4	14241.2	13950.2	13642.2	13230.2	13011.4	12777.8	11779.5	11297.4	11099.9	8546.8
42.5°	14392.0	14366.5	14162.6	14003.3	13725.1	13559.4	13693.2	12631.2	12142.7	11970.7	9194.7
45°	14109.5	14109.5	14050.0	14130.8	14143.5	14141.4	14610.8	13593.4	13181.3	12992.3	10108.0
47.5°	13387.4	13434.1	13521.2	13918.4	14336.8	14687.2	15683.4	14876.3	14517.3	14362.3	11401.5
50°	12066.3	12193.7	12491.1	13266.3	14156.2	15048.3	16698.6	16773.0	17114.9	16840.9	13304.5
52.5°	10131.3	10112.2	10870.5	11974.9	13332.1	15063.2	17257.2	18446.7	19366.3	19177.3	14719.1
55°	8052.0	8020.1	8727.4	10250.3	12068.4	14494.0	17592.8	19213.4	20615.2	20445.3	15991.3
57.5°	6165.9	6125.5	6754.2	8128.4	10284.2	13285.4	17529.1	20126.7	22333.5	22246.4	17720.3
60°	4243.7	4194.8	4783.2	5985.3	8173.0	11437.6	16823.9	20596.1	24344.9	24374.6	19570.2
62.5°	2548.8	2521.1	2948.1	3880.5	5879.1	9147.9	15173.6	20311.5	25946.4	26080.2	20759.7
65°	1537.8	1518.6	1769.3	2315.1	3729.7	6675.6	12629.1	18856.6	26177.9	26485.9	20787.3
67.5°	1119.3	1121.5	1193.7	1410.3	2174.9	4311.7	9477.1	16248.3	24971.5	25290.1	19476.8
70°	972.8	977.0	1015.3	1064.1	1314.7	2468.0	6161.6	12826.6	21405.3	21651.7	16335.4
72.5°	864.5	864.5	889.9	915.4	1028.0	1503.8	3300.6	8965.3	16894.0	16959.9	12467.7
75°	760.4	754.0	766.8	779.5	892.1	1051.4	1605.7	6246.6	12478.3	12325.4	8058.3
77.5°	605.3	599.0	601.1	613.8	715.8	751.9	813.5	3901.7	7032.5	6637.4	3559.8
80°	431.2	426.9	450.3	482.1	528.9	460.9	509.8	1888.2	2788.8	2595.5	1380.6
82.5°	257.0	265.5	301.6	327.1	365.3	288.9	329.2	630.8	987.6	962.2	560.7
85°	36.1	38.2	108.3	125.3	157.2	112.6	174.2	284.6	395.1	422.7	197.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	14.9	51.0	112.6	114.7	48.9
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°	2861.0	2861.0	2861.0	2861.0	2861.0	2861.0	2861.0	2861.0	2861.0	2861.0	2861.0
2.5°	2912.0	2812.1	2669.8	2550.9	2451.1	2370.3	2302.4	2251.4	2236.5	2215.3	2215.3
5°	3018.2	2837.6	2582.7	2402.2	2298.1	2236.5	2194.1	2172.8	2162.2	2149.5	2143.1
7.5°	3164.7	2912.0	2567.9	2385.2	2304.5	2266.3	2238.7	2225.9	2217.4	2204.7	2204.7
10°	3366.5	3022.4	2614.6	2444.7	2381.0	2342.7	2310.9	2289.6	2270.5	2251.4	2247.2
12.5°	3585.3	3166.8	2699.6	2525.4	2457.4	2410.7	2366.1	2334.2	2310.9	2287.5	2281.1
15°	3827.4	3315.5	2790.9	2604.0	2519.0	2455.3	2402.2	2353.4	2321.5	2287.5	2283.3
17.5°	4065.3	3466.3	2867.4	2657.1	2548.8	2470.2	2393.7	2330.0	2289.6	2251.4	2240.8
20°	4349.9	3617.1	2920.5	2672.0	2542.4	2438.3	2347.0	2266.3	2221.7	2177.1	2170.7
22.5°	4611.1	3757.3	2945.9	2650.7	2493.5	2370.3	2264.1	2177.1	2128.2	2083.6	2075.1
25°	4863.9	3880.5	2935.3	2599.7	2419.2	2276.9	2166.4	2079.4	2032.6	1985.9	1973.2
27.5°	5108.1	3963.3	2892.8	2521.1	2325.7	2172.8	2066.6	1988.0	1947.7	1907.3	1890.3
30°	5348.1	4039.8	2827.0	2419.2	2206.8	2064.5	1977.4	1922.2	1881.8	1839.4	1826.6
32.5°	5590.3	4095.0	2727.2	2300.3	2085.7	1968.9	1915.8	1875.5	1833.0	1790.5	1777.8
35°	5834.5	4118.4	2606.1	2164.3	1983.8	1907.3	1888.2	1841.5	1784.1	1733.2	1716.2
37.5°	6125.5	4139.6	2455.3	2030.5	1894.6	1877.6	1873.3	1803.2	1735.3	1665.2	1646.1
40°	6476.0	4167.2	2300.3	1909.4	1822.4	1867.0	1850.0	1754.4	1618.5	1550.5	1529.3
42.5°	6905.0	4218.2	2138.8	1799.0	1769.3	1826.6	1807.5	1635.5	1544.1	1505.9	1495.3
45°	7535.8	4405.1	1977.4	1711.9	1728.9	1769.3	1739.5	1565.4	1529.3	1503.8	1491.0
47.5°	8659.4	4691.8	1837.2	1646.1	1697.0	1718.3	1603.6	1546.2	1518.6	1484.7	1469.8
50°	9827.6	4817.2	1724.7	1605.7	1660.9	1671.6	1529.3	1520.8	1501.6	1465.5	1450.7
52.5°	10617.7	4800.2	1656.7	1590.9	1631.2	1590.9	1495.3	1493.1	1480.4	1437.9	1420.9
55°	11509.8	4829.9	1627.0	1595.1	1618.5	1454.9	1452.8	1459.2	1452.8	1406.1	1397.6
57.5°	12714.1	4921.2	1612.1	1610.0	1610.0	1389.1	1412.4	1420.9	1408.2	1387.0	1380.6
60°	13871.6	4927.6	1584.5	1627.0	1603.6	1348.7	1365.7	1374.2	1359.3	1355.1	1353.0
62.5°	14307.0	4621.8	1522.9	1614.2	1578.1	1304.1	1316.9	1321.1	1306.2	1316.9	1314.7
65°	13659.2	3971.8	1420.9	1552.6	1499.5	1263.8	1255.3	1265.9	1240.4	1268.0	1270.1
67.5°	12127.9	3156.2	1265.9	1435.8	1389.1	1219.2	1202.2	1202.2	1159.7	1202.2	1200.0
70°	9778.7	2230.2	1038.6	1248.9	1268.0	1166.1	1157.6	1108.7	1040.7	1104.5	1098.1
72.5°	7412.6	1601.5	817.7	987.6	1091.7	1091.7	1093.8	1011.0	932.4	962.2	936.7
75°	4696.1	1127.8	654.2	756.1	856.0	957.9	1006.8	853.8	783.7	771.0	758.3
77.5°	2115.5	741.3	509.8	579.8	607.5	756.1	919.7	734.9	639.3	611.7	603.2
80°	885.7	460.9	363.2	409.9	373.8	635.1	811.4	571.3	469.4	431.2	403.6
82.5°	388.7	274.0	231.5	220.9	233.6	471.5	605.3	380.2	293.1	397.2	401.4
85°	163.5	144.4	118.9	108.3	95.6	180.5	284.6	148.7	182.7	104.1	85.0
87.5°	38.2	42.5	31.9	21.2	12.7	2.1	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)