

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: P636295

Luminaire Tested: GWS-SA3F-740-U-T2R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636295
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-SA3F-740-U-T2R-W
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: (48) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24931.7 lumens
Efficiency: N/A
Efficacy: 136.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

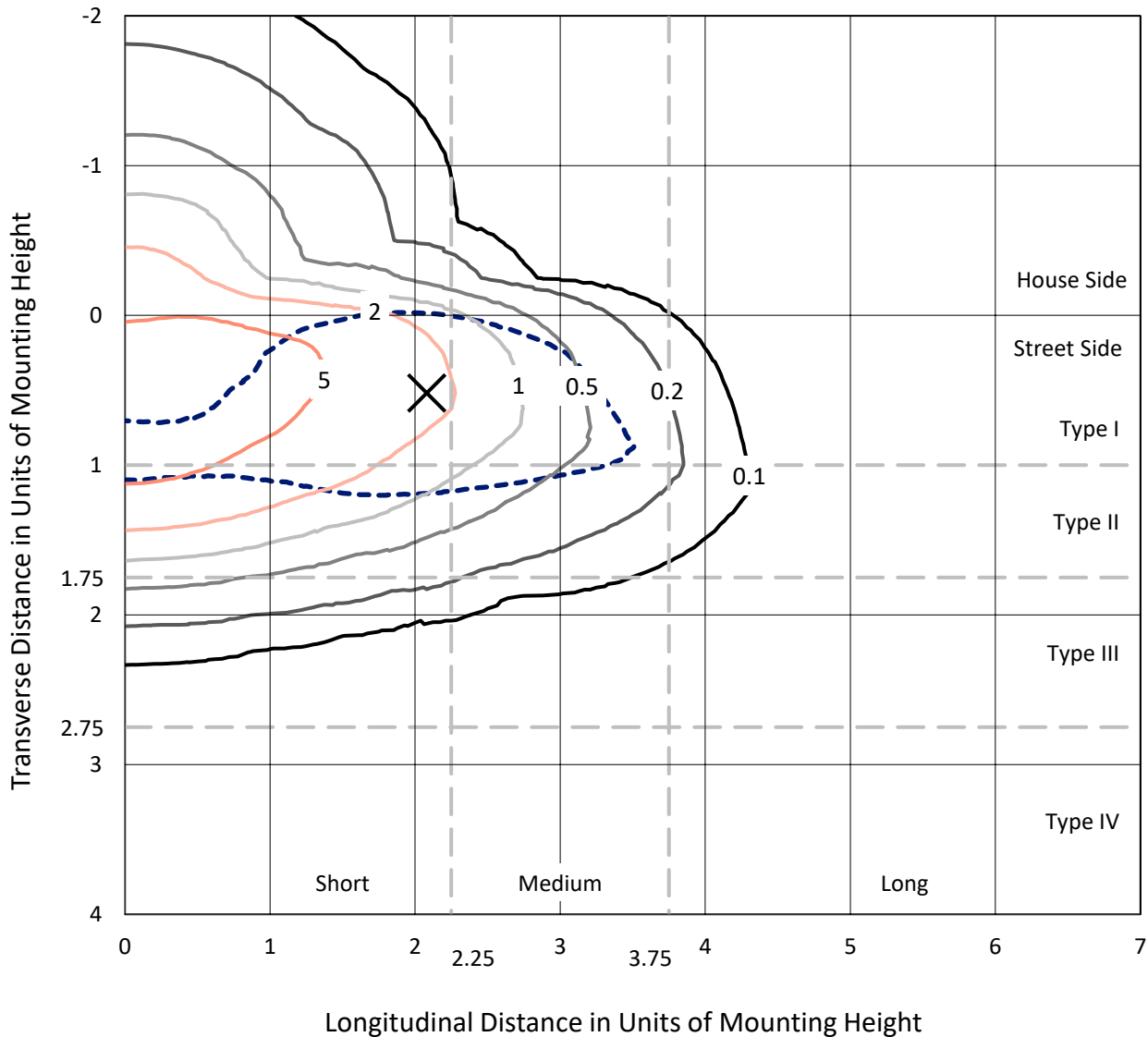
Input Watts (W): 183.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

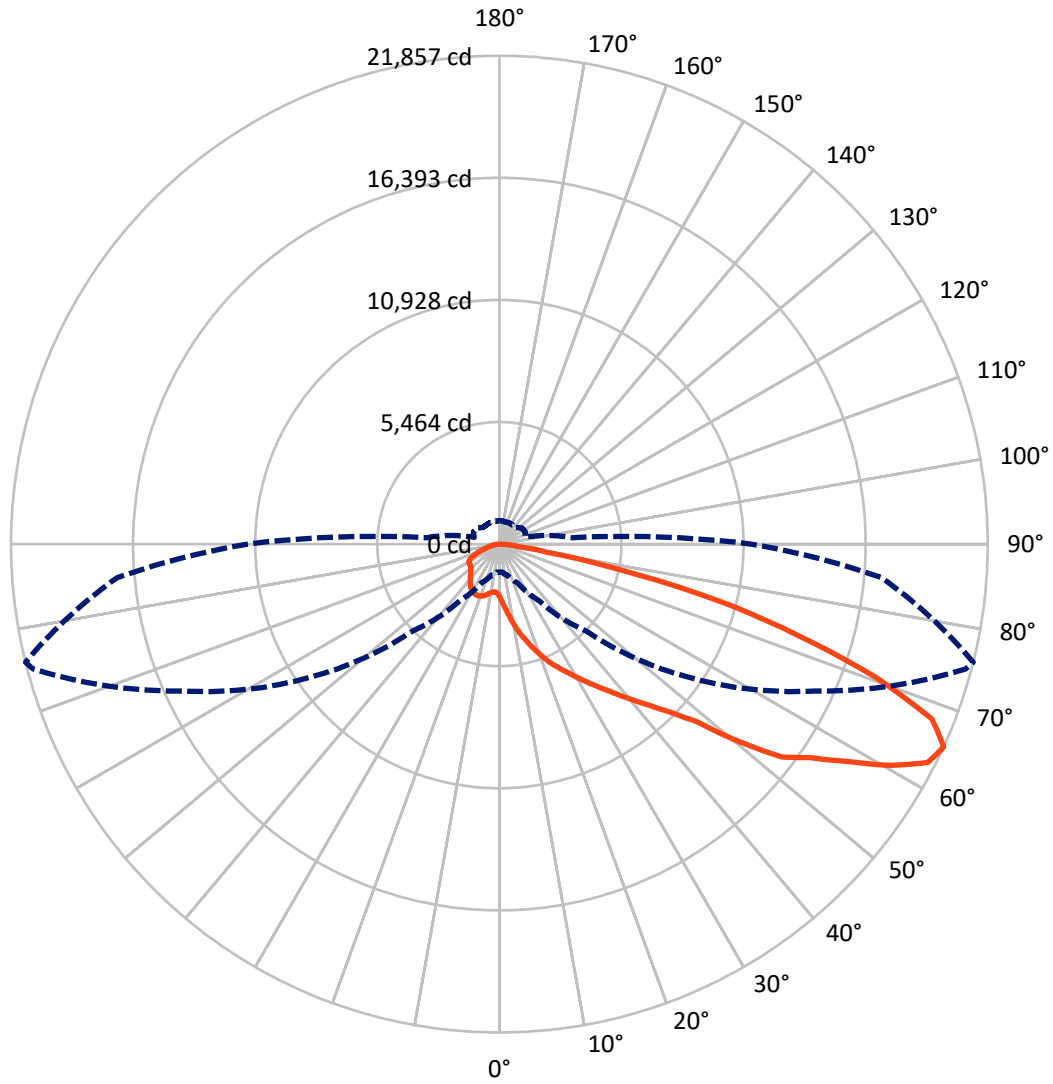
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 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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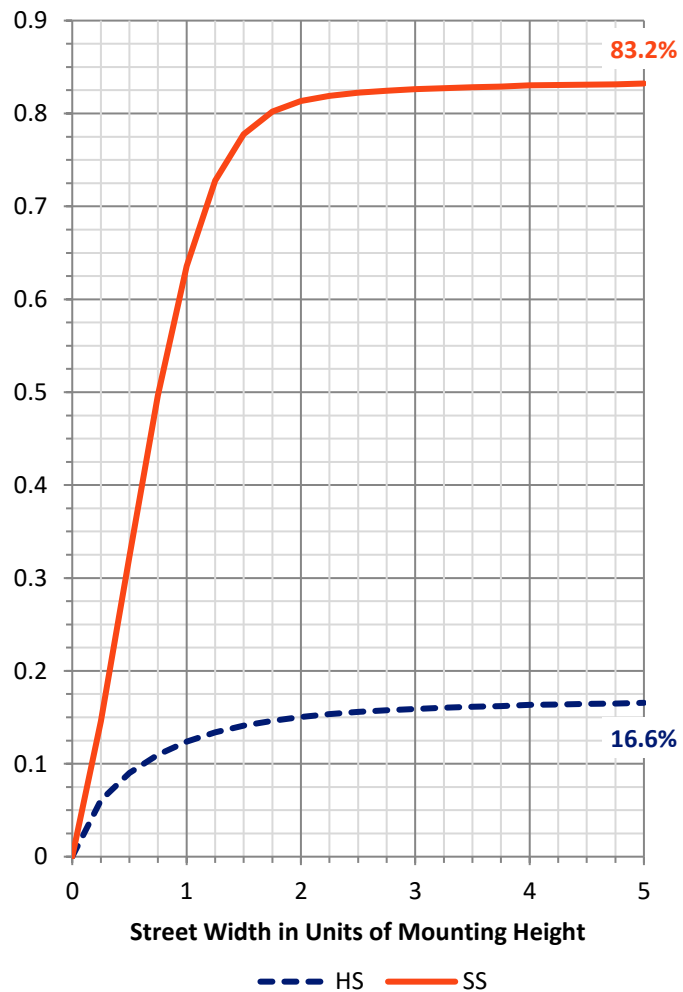
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4167.4	0.0	4167.4
	% Fixture	16.7	0.0	16.7
Street Side	Lumens	20764.3	0.0	20764.3
	% Fixture	83.3	0.0	83.3
Total	Lumens	24931.7	0.0	24931.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	280.5	1.1
10°-20°	1068.4	4.3
20°-30°	2082.1	8.4
30°-40°	3482.2	14.0
40°-50°	4985.8	20.0
50°-60°	5902.5	23.7
60°-70°	4908.0	19.7
70°-80°	2008.5	8.1
80°-90°	213.8	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°	24931.7	100.0
0°-180°	24931.7	100.0

Coefficient of Utilization



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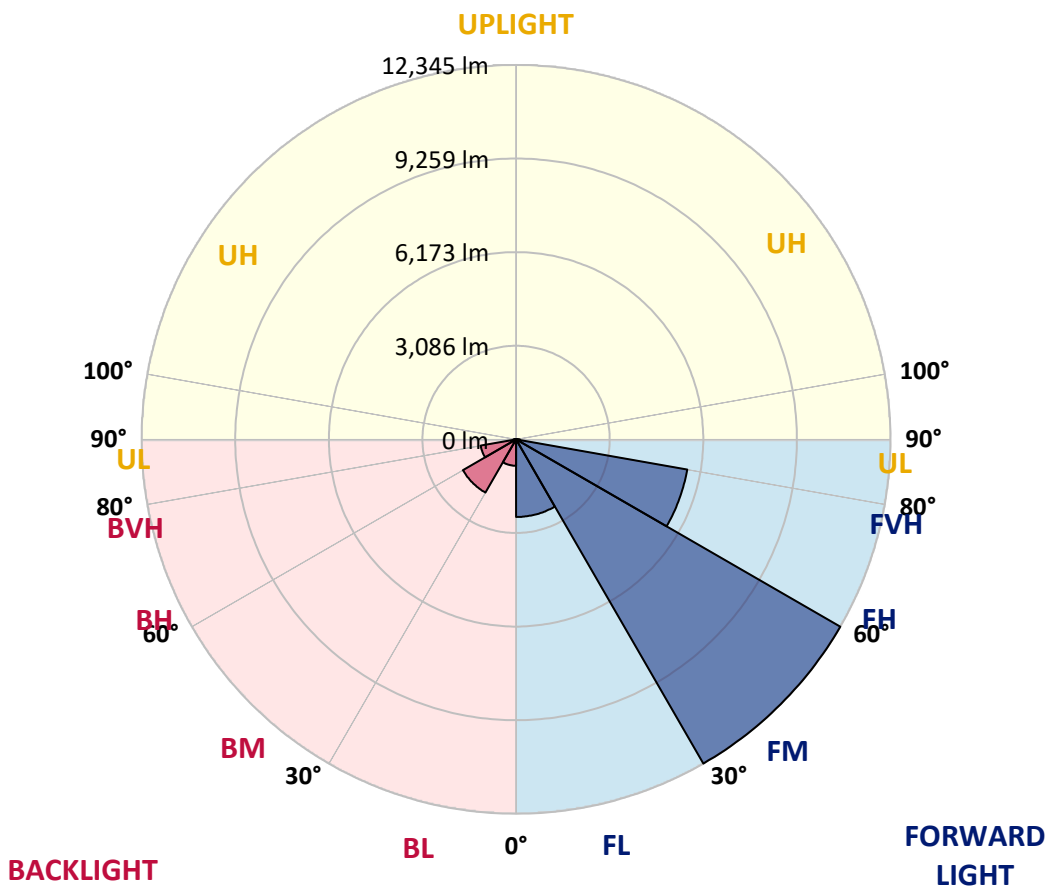
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2559.1	10.3			
FM (30°-60°)	12345.2	49.5			
FH (60°-80°)	5732.4	23.0			G3/7500
FVH (80°-90°)	127.5	0.5			G2/225
BL (0°-30°)	871.8	3.5	B2/1000		
BM (30°-60°)	2025.3	8.1	B2/2500		
BH (60°-80°)	1184.0	4.7	B3/2500		G3/2500
BVH (80°-90°)	86.3	0.3			G1/100
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°	2360.9	2360.9	2360.9	2360.9	2360.9	2360.9	2360.9	2360.9	2360.9	2360.9	2360.9
2.5°	3309.2	3321.4	3281.1	3267.1	3172.5	3044.5	2937.6	2776.3	2627.4	2604.6	2471.4
5°	4203.1	4150.5	4104.9	4075.1	3943.7	3798.2	3572.1	3268.9	2951.6	2913.1	2625.6
7.5°	4734.1	4725.4	4669.3	4651.8	4550.1	4404.6	4171.5	3794.7	3333.7	3270.6	2834.2
10°	5160.1	5154.8	5126.8	5142.5	5049.6	4907.7	4681.6	4292.5	3752.6	3689.5	3067.3
12.5°	5531.6	5540.4	5535.2	5593.0	5545.7	5435.2	5200.4	4772.7	4171.5	4103.2	3351.2
15°	5803.3	5810.3	5836.6	5962.8	5989.1	5966.3	5728.0	5244.2	4585.2	4487.0	3643.9
17.5°	5880.4	5894.5	5957.6	6160.9	6302.9	6397.5	6220.5	5724.4	4991.8	4884.9	3941.9
20°	5983.9	5999.6	6062.7	6274.8	6483.4	6699.0	6667.4	6211.7	5401.9	5314.3	4243.4
22.5°	6462.3	6450.1	6422.0	6523.7	6672.7	6940.8	7019.7	6679.7	5826.1	5742.0	4576.4
25°	7384.3	7361.5	7182.7	7089.8	7040.8	7203.8	7344.0	7105.6	6239.8	6113.6	4886.6
27.5°	8400.9	8388.6	8160.8	7939.9	7638.4	7568.3	7650.7	7477.2	6641.1	6513.2	5156.6
30°	9363.1	9326.3	9088.0	8811.0	8407.9	8106.4	7985.5	7841.8	7081.1	6947.9	5472.1
32.5°	10223.7	10176.4	9896.0	9589.2	9166.8	8811.0	8450.0	8229.1	7578.8	7424.6	5794.6
35°	10930.1	10882.8	10595.3	10269.3	9804.8	9541.9	9047.6	8649.8	8085.4	7929.4	6174.9
37.5°	11476.9	11433.1	11133.4	10812.6	10407.8	10199.2	9769.8	9123.0	8669.0	8506.0	6578.0
40°	11783.7	11752.1	11512.0	11257.8	10917.8	10737.3	10544.5	9720.7	9322.8	9159.8	7053.0
42.5°	11876.6	11855.5	11687.3	11555.8	11326.2	11189.5	11299.9	10423.5	10020.4	9878.4	7587.6
45°	11643.4	11643.4	11594.4	11661.0	11671.5	11669.7	12057.1	11217.5	10877.5	10721.5	8341.3
47.5°	11047.5	11086.1	11157.9	11485.7	11831.0	12120.2	12942.2	12276.2	11980.0	11852.0	9408.7
50°	9957.3	10062.5	10307.9	10947.6	11682.0	12418.2	13780.0	13841.4	14123.6	13897.5	10979.2
52.5°	8360.6	8344.8	8970.5	9881.9	11001.9	12430.4	14241.0	15222.5	15981.5	15825.5	12146.5
55°	6644.6	6618.3	7202.0	8458.7	9959.1	11960.7	14517.9	15855.3	17012.1	16871.9	13196.4
57.5°	5088.2	5054.9	5573.7	6707.7	8486.8	10963.4	14465.4	16609.0	18430.1	18358.2	14623.1
60°	3502.0	3461.7	3947.2	4939.2	6744.5	9438.5	13883.4	16996.3	20089.9	20114.4	16149.7
62.5°	2103.3	2080.5	2432.8	3202.3	4851.6	7549.0	12521.6	16761.4	21411.5	21521.9	17131.3
65°	1269.0	1253.2	1460.0	1910.5	3077.8	5508.9	10421.8	15560.8	21602.5	21856.7	17154.1
67.5°	923.7	925.4	985.0	1163.8	1794.8	3558.1	7820.7	13408.5	20607.0	20869.9	16072.6
70°	802.8	806.3	837.8	878.1	1084.9	2036.7	5084.7	10584.8	17664.1	17867.4	13480.3
72.5°	713.4	713.4	734.4	755.4	848.3	1240.9	2723.8	7398.3	13941.3	13995.6	10288.6
75°	627.5	622.2	632.7	643.3	736.2	867.6	1325.1	5154.8	10297.3	10171.1	6649.9
77.5°	499.5	494.3	496.0	506.5	590.7	620.5	671.3	3219.8	5803.3	5477.3	2937.6
80°	355.8	352.3	371.6	397.9	436.4	380.3	420.7	1558.2	2301.3	2141.8	1139.3
82.5°	212.1	219.1	248.9	269.9	301.5	238.4	271.7	520.6	815.0	794.0	462.7
85°	29.8	31.5	89.4	103.4	129.7	92.9	143.7	234.9	326.0	348.8	163.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	12.3	42.1	92.9	94.6	40.3
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°	2360.9	2360.9	2360.9	2360.9	2360.9	2360.9	2360.9	2360.9	2360.9	2360.9	2360.9
2.5°	2403.0	2320.6	2203.2	2105.0	2022.7	1956.1	1900.0	1857.9	1845.6	1828.1	1828.1
5°	2490.6	2341.7	2131.3	1982.3	1896.5	1845.6	1810.6	1793.1	1784.3	1773.8	1768.5
7.5°	2611.6	2403.0	2119.1	1968.3	1901.7	1870.2	1847.4	1836.9	1829.9	1819.3	1819.3
10°	2778.1	2494.1	2157.6	2017.4	1964.8	1933.3	1907.0	1889.5	1873.7	1857.9	1854.4
12.5°	2958.6	2613.3	2227.7	2084.0	2027.9	1989.4	1952.6	1926.3	1907.0	1887.7	1882.4
15°	3158.4	2736.0	2303.1	2148.9	2078.7	2026.2	1982.3	1942.0	1915.7	1887.7	1884.2
17.5°	3354.7	2860.5	2366.2	2192.7	2103.3	2038.4	1975.3	1922.8	1889.5	1857.9	1849.1
20°	3589.6	2984.9	2410.0	2204.9	2098.0	2012.1	1936.8	1870.2	1833.4	1796.6	1791.3
22.5°	3805.2	3100.6	2431.0	2187.4	2057.7	1956.1	1868.4	1796.6	1756.2	1719.4	1712.4
25°	4013.8	3202.3	2422.3	2145.4	1996.4	1878.9	1787.8	1715.9	1677.4	1638.8	1628.3
27.5°	4215.3	3270.6	2387.2	2080.5	1919.2	1793.1	1705.4	1640.6	1607.3	1574.0	1559.9
30°	4413.4	3333.7	2332.9	1996.4	1821.1	1703.7	1631.8	1586.2	1552.9	1517.9	1507.4
32.5°	4613.2	3379.3	2250.5	1898.2	1721.2	1624.8	1581.0	1547.7	1512.6	1477.6	1467.0
35°	4814.8	3398.6	2150.6	1786.0	1637.1	1574.0	1558.2	1519.6	1472.3	1430.2	1416.2
37.5°	5054.9	3416.1	2026.2	1675.6	1563.4	1549.4	1545.9	1488.1	1432.0	1374.1	1358.4
40°	5344.1	3438.9	1898.2	1575.7	1503.9	1540.7	1526.6	1447.8	1335.6	1279.5	1262.0
42.5°	5698.2	3480.9	1765.0	1484.6	1460.0	1507.4	1491.6	1349.6	1274.2	1242.7	1233.9
45°	6218.7	3635.2	1631.8	1412.7	1426.7	1460.0	1435.5	1291.8	1262.0	1240.9	1230.4
47.5°	7145.9	3871.8	1516.1	1358.4	1400.4	1418.0	1323.3	1276.0	1253.2	1225.2	1212.9
50°	8109.9	3975.2	1423.2	1325.1	1370.6	1379.4	1262.0	1255.0	1239.2	1209.4	1197.1
52.5°	8761.9	3961.2	1367.1	1312.8	1346.1	1312.8	1233.9	1232.2	1221.7	1186.6	1172.6
55°	9498.1	3985.7	1342.6	1316.3	1335.6	1200.6	1198.9	1204.1	1198.9	1160.3	1153.3
57.5°	10491.9	4061.1	1330.3	1328.6	1328.6	1146.3	1165.6	1172.6	1162.1	1144.5	1139.3
60°	11447.1	4066.4	1307.5	1342.6	1323.3	1113.0	1127.0	1134.0	1121.8	1118.2	1116.5
62.5°	11806.5	3814.0	1256.7	1332.1	1302.3	1076.2	1086.7	1090.2	1077.9	1086.7	1084.9
65°	11271.9	3277.6	1172.6	1281.3	1237.4	1042.9	1035.9	1044.6	1023.6	1046.4	1048.1
67.5°	10008.1	2604.6	1044.6	1184.9	1146.3	1006.1	992.1	992.1	957.0	992.1	990.3
70°	8069.6	1840.4	857.1	1030.6	1046.4	962.3	955.2	914.9	858.8	911.4	906.2
72.5°	6117.1	1321.6	674.8	815.0	900.9	900.9	902.7	834.3	769.5	794.0	773.0
75°	3875.3	930.7	539.8	624.0	706.4	790.5	830.8	704.6	646.8	636.2	625.7
77.5°	1745.7	611.7	420.7	478.5	501.3	624.0	758.9	606.4	527.6	504.8	497.8
80°	730.9	380.3	299.7	338.3	308.5	524.1	669.5	471.5	387.4	355.8	333.0
82.5°	320.8	226.1	191.0	182.3	192.8	389.1	499.5	313.7	241.9	327.8	331.3
85°	135.0	119.2	98.2	89.4	78.9	149.0	234.9	122.7	150.7	85.9	70.1
87.5°	31.5	35.1	26.3	17.5	10.5	1.8	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)