

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: P643318

Luminaire Tested: GWS-SA6E-760-U-SL4-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643318
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-35)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SAGE-760-U-SL4-W
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS
Light Source: (96) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43374 lumens
Efficiency: N/A
Efficacy: 134.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

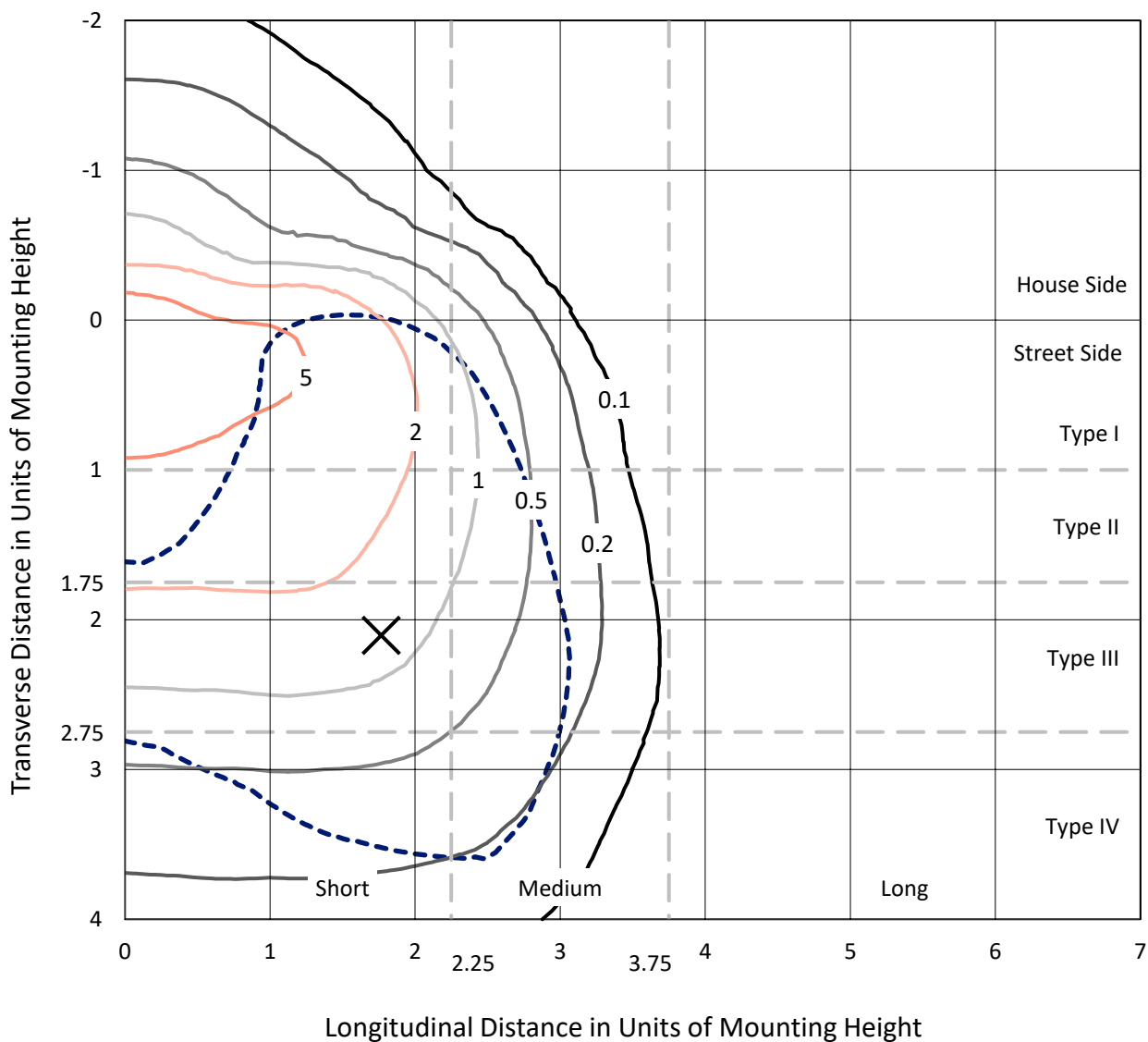
Input Watts (W): 323.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

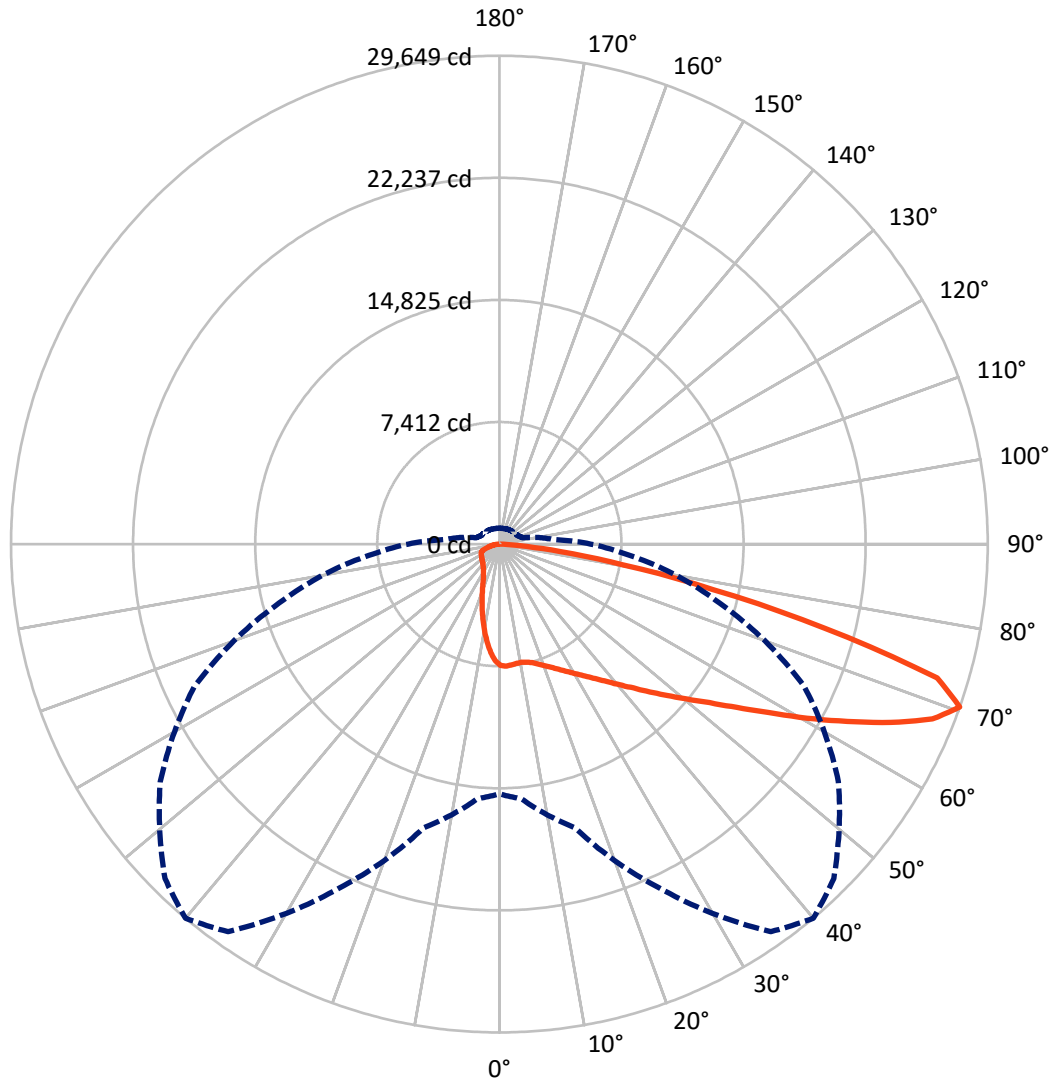
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6680.7	0.0	6680.7
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	36693.3	0.0	36693.3
	% Fixture	84.6	0.0	84.6
Total	Lumens	43374.0	0.0	43374.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	650.7	1.5
10°-20°	1696.0	3.9
20°-30°	2663.1	6.1
30°-40°	4004.0	9.2
40°-50°	6180.3	14.2
50°-60°	9178.2	21.2
60°-70°	11569.0	26.7
70°-80°	6690.3	15.4
80°-90°	742.5	1.7
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°	43374.0	100.0
0°-180°	43374.0	100.0

Coefficient of Utilization



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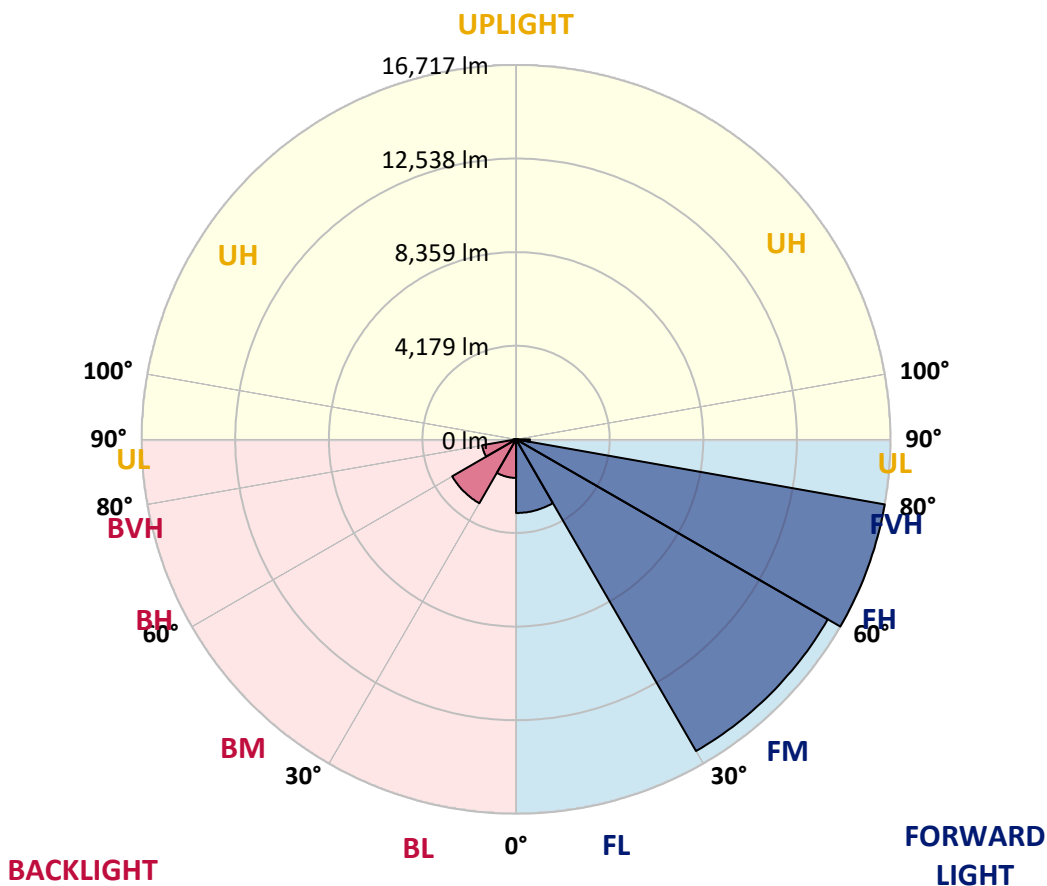
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3288.1	7.6			
FM (30°-60°)	16069.5	37.0			
FH (60°-80°)	16717.3	38.5			G5
FVH (80°-90°)	618.4	1.4			G4/750
BL (0°-30°)	1721.7	4.0	B3/2500		
BM (30°-60°)	3293.0	7.6	B3/5000		
BH (60°-80°)	1541.9	3.6	B3/2500		G3/2500
BVH (80°-90°)	124.1	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-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	7365.4	7365.4	7365.4	7365.4	7365.4	7365.4	7365.4	7365.4	7365.4	7365.4	7365.4
2.5°	7410.7	7423.7	7433.4	7446.3	7439.9	7420.4	7436.6	7436.6	7401.0	7362.2	7326.6
5°	7420.4	7436.6	7433.4	7430.2	7404.3	7371.9	7371.9	7352.5	7290.9	7229.4	7171.2
7.5°	7401.0	7397.8	7394.5	7384.8	7355.7	7320.1	7313.6	7274.8	7193.8	7109.6	7025.5
10°	7313.6	7310.4	7320.1	7342.7	7336.3	7303.9	7303.9	7268.3	7174.4	7070.8	6960.7
12.5°	7242.4	7242.4	7281.2	7342.7	7365.4	7352.5	7355.7	7329.8	7223.0	7099.9	6970.4
15°	7252.1	7255.3	7339.5	7439.9	7482.0	7472.2	7475.5	7446.3	7326.6	7203.5	7028.7
17.5°	7316.8	7333.0	7478.7	7617.9	7673.0	7660.0	7637.4	7588.8	7452.8	7313.6	7099.9
20°	7452.8	7478.7	7666.5	7841.3	7906.1	7876.9	7838.1	7741.0	7592.0	7439.9	7177.6
22.5°	7721.5	7737.7	7944.9	8116.5	8168.3	8132.7	8055.0	7915.8	7744.2	7585.6	7271.5
25°	8100.3	8119.7	8317.2	8475.9	8462.9	8420.8	8314.0	8142.4	7938.4	7770.1	7407.5
27.5°	8550.3	8582.7	8777.0	8903.2	8819.1	8757.5	8637.8	8430.6	8200.7	8048.5	7614.7
30°	9042.4	9055.4	9220.5	9346.8	9217.3	9133.1	8987.4	8764.0	8556.8	8443.5	7925.5
32.5°	9518.4	9531.3	9673.8	9745.0	9609.0	9547.5	9421.2	9184.9	9039.2	8977.7	8388.5
35°	10020.2	10016.9	10133.5	10195.0	10055.8	10029.9	9900.4	9719.1	9693.2	9774.1	9065.1
37.5°	10522.0	10492.9	10554.4	10635.3	10557.6	10583.5	10499.3	10437.8	10538.2	10748.6	9965.1
40°	10923.5	10923.5	10988.2	11088.6	11114.5	11227.8	11179.2	11260.2	11583.9	12085.7	11078.9
42.5°	11279.6	11282.8	11418.8	11574.2	11762.0	11936.8	11975.7	12186.1	12856.3	13643.0	12477.5
45°	11651.9	11655.1	11839.7	12066.3	12464.5	12798.0	12875.7	13348.4	14306.7	15265.0	13995.9
47.5°	12082.5	12046.9	12302.7	12681.4	13248.0	13727.2	13927.9	14598.1	15808.9	16987.4	15426.9
50°	12568.1	12493.7	12778.6	13432.6	14131.9	14789.1	15125.8	15893.1	17421.2	18577.0	16773.7
52.5°	13115.3	13073.2	13371.0	14167.5	15235.9	15993.4	16449.9	17456.8	18988.2	20160.2	17842.1
55°	13795.2	13694.8	14125.4	15138.7	16530.9	17495.7	18036.3	19004.4	20700.8	21597.6	18657.9
57.5°	14539.8	14429.7	15006.0	16352.8	18214.4	19273.1	19949.7	20746.2	22313.1	22698.4	19137.1
60°	15342.7	15307.1	15990.2	17777.3	20221.7	21451.9	21940.8	22662.8	23715.0	23336.2	19017.3
62.5°	16077.6	16064.7	17058.6	19321.6	22348.7	23702.0	24090.5	24281.5	24725.1	23294.1	18065.5
65°	16851.4	16961.5	18305.0	21112.0	24786.6	26114.0	26275.9	25790.2	25065.0	22190.1	16116.5
67.5°	16948.5	17162.2	19088.5	22789.0	27098.2	28351.1	28221.6	26363.3	24061.4	19117.7	12632.9
70°	15158.2	15530.5	17838.8	23044.8	28726.7	29649.4	28713.7	25129.8	20419.2	13850.2	7944.9
72.5°	12665.3	12985.8	15025.4	19651.9	26625.5	27800.8	26534.9	21270.6	14429.7	7944.9	4046.9
75°	9858.3	10230.6	12111.6	15621.1	19933.5	20403.0	19768.4	14834.4	7932.0	3276.4	1838.9
77.5°	6015.3	6284.1	7747.4	10583.5	13947.3	13244.8	11224.5	8317.2	3480.4	1570.2	1136.4
80°	2661.3	2826.4	3817.1	5685.1	8058.2	7617.9	6005.6	3551.6	1903.7	997.2	793.2
82.5°	1427.8	1534.6	1881.0	2250.1	3538.6	3700.5	3001.2	2046.1	1023.1	569.8	453.3
85°	628.1	689.6	854.7	815.9	1162.3	1142.9	1152.6	1405.1	488.9	262.2	294.6
87.5°	0.0	0.0	0.0	0.0	3.2	3.2	35.6	187.8	48.6	77.7	68.0
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°	7365.4	7365.4	7365.4	7365.4	7365.4	7365.4	7365.4	7365.4	7365.4	7365.4	7365.4
2.5°	7287.7	7229.4	7213.2	7193.8	7158.2	7096.7	7051.4	6999.6	6976.9	6951.0	6954.2
5°	7106.4	7035.2	6967.2	6879.8	6769.7	6646.7	6562.5	6465.4	6413.6	6365.0	6378.0
7.5°	6951.0	6840.9	6701.7	6517.2	6319.7	6099.5	5921.5	5782.2	5688.4	5623.6	5656.0
10°	6853.9	6724.4	6481.6	6180.5	5847.0	5510.3	5254.5	5014.9	4866.0	4749.5	4743.0
12.5°	6834.4	6666.1	6313.2	5876.1	5393.7	4943.7	4568.2	4244.4	4046.9	3901.2	3956.3
15°	6853.9	6640.2	6167.5	5594.5	4985.8	4377.2	3910.9	3538.6	3302.3	3169.6	3159.8
17.5°	6876.5	6614.3	6002.4	5290.1	4558.5	3862.4	3321.7	2926.7	2683.9	2551.2	2554.4
20°	6896.0	6575.4	5808.1	4956.7	4124.6	3383.2	2823.1	2447.6	2230.7	2133.5	2149.7
22.5°	6928.3	6536.6	5600.9	4600.5	3681.1	2920.3	2428.2	2123.8	1994.3	1929.6	1932.8
25°	6989.8	6513.9	5387.3	4212.0	3244.0	2551.2	2156.2	1952.2	1871.3	1832.4	1829.2
27.5°	7116.1	6533.4	5163.9	3836.5	2849.0	2269.5	1981.4	1848.6	1793.6	1767.7	1764.5
30°	7326.6	6611.1	4969.6	3454.5	2509.1	2049.4	1861.6	1780.6	1748.3	1725.6	1722.4
32.5°	7647.1	6756.7	4759.2	3098.3	2233.9	1887.5	1767.7	1725.6	1702.9	1690.0	1690.0
35°	8132.7	7022.2	4552.0	2787.5	2020.2	1761.2	1693.2	1677.0	1657.6	1651.1	1657.6
37.5°	8832.0	7446.3	4364.2	2515.6	1868.1	1664.1	1612.3	1618.8	1602.6	1612.3	1622.0
40°	9719.1	8012.9	4205.6	2292.2	1754.7	1592.9	1541.1	1563.7	1554.0	1563.7	1579.9
42.5°	10842.5	8715.5	4085.8	2117.4	1673.8	1534.6	1486.0	1508.7	1502.2	1515.2	1531.4
45°	12095.4	9641.4	4030.7	1994.3	1615.5	1492.5	1440.7	1456.9	1450.4	1460.1	1476.3
47.5°	13296.6	10483.2	4079.3	1923.1	1567.0	1456.9	1401.9	1408.3	1405.1	1401.9	1411.6
50°	14332.6	11153.3	4218.5	1900.4	1534.6	1421.3	1369.5	1372.7	1363.0	1343.6	1350.1
52.5°	15177.6	11690.8	4302.7	1900.4	1518.4	1382.4	1333.9	1337.1	1317.7	1291.8	1295.0
55°	15734.4	11907.7	4234.7	1897.2	1511.9	1350.1	1298.3	1301.5	1282.1	1249.7	1252.9
57.5°	15893.1	11697.2	3949.8	1861.6	1505.5	1324.2	1262.6	1269.1	1256.2	1220.6	1220.6
60°	15449.5	10926.7	3428.6	1780.6	1489.3	1308.0	1236.7	1246.5	1240.0	1204.4	1204.4
62.5°	14287.3	9557.2	2806.9	1657.6	1443.9	1288.5	1214.1	1233.5	1249.7	1230.3	1227.0
65°	12111.6	7656.8	2282.5	1521.6	1385.7	1256.2	1181.7	1230.3	1265.9	1291.8	1291.8
67.5°	9087.8	5481.2	1861.6	1379.2	1298.3	1191.4	1139.6	1184.9	1210.8	1227.0	1236.7
70°	5539.4	3224.6	1466.6	1214.1	1172.0	1094.3	1055.4	1010.1	974.5	968.0	971.3
72.5°	2709.8	1845.4	1191.4	1032.8	1000.4	929.2	841.8	822.3	806.1	796.4	793.2
75°	1492.5	1285.3	984.2	857.9	799.7	712.3	692.8	660.5	654.0	641.0	644.3
77.5°	1055.4	1013.3	812.6	696.1	608.7	563.3	573.0	550.4	550.4	540.7	537.4
80°	793.2	796.4	624.8	508.3	450.0	433.8	443.5	443.5	437.1	433.8	430.6
82.5°	501.8	566.6	420.9	327.0	320.5	323.8	320.5	317.3	323.8	314.0	310.8
85°	346.4	407.9	255.8	194.3	194.3	191.0	197.5	194.3	200.7	191.0	191.0
87.5°	77.7	181.3	93.9	58.3	61.5	58.3	61.5	64.8	71.2	74.5	74.5
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)