

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: P641228

Luminaire Tested: GWS-SA5F-740-U-SL4-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641228
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-SA5F-740-U-SL4-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS
Light Source: (80) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40085.2 lumens
Efficiency: N/A
Efficacy: 129.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

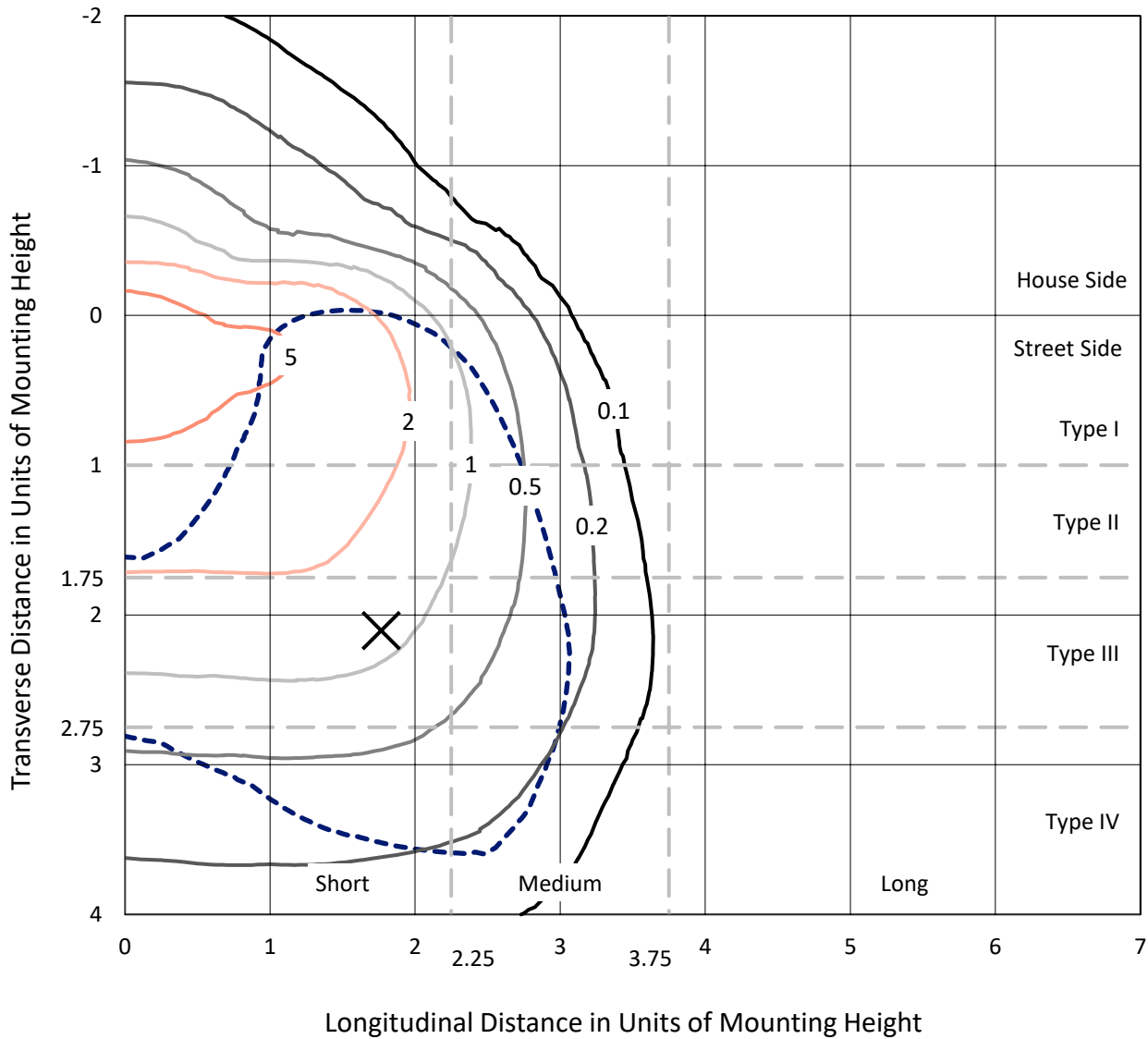
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

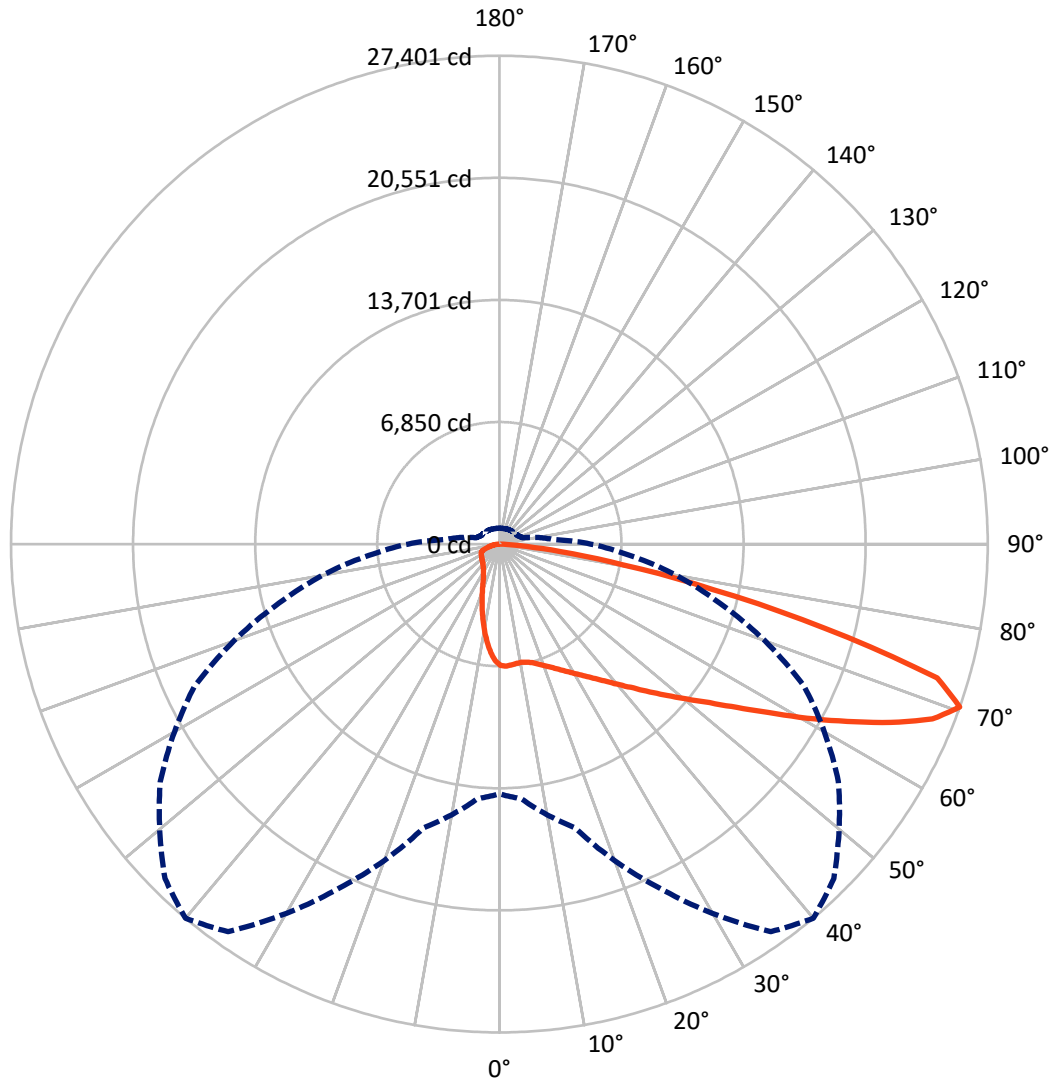
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.6 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	6174.1	0.0	6174.1
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	33911.1	0.0	33911.1
	% Fixture	84.6	0.0	84.6
Total	Lumens	40085.2	0.0	40085.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	601.3	1.5
10°-20°	1567.4	3.9
20°-30°	2461.1	6.1
30°-40°	3700.4	9.2
40°-50°	5711.7	14.2
50°-60°	8482.3	21.2
60°-70°	10691.8	26.7
70°-80°	6183.0	15.4
80°-90°	686.2	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°	40085.2	100.0
0°-180°	40085.2	100.0

Coefficient of Utilization



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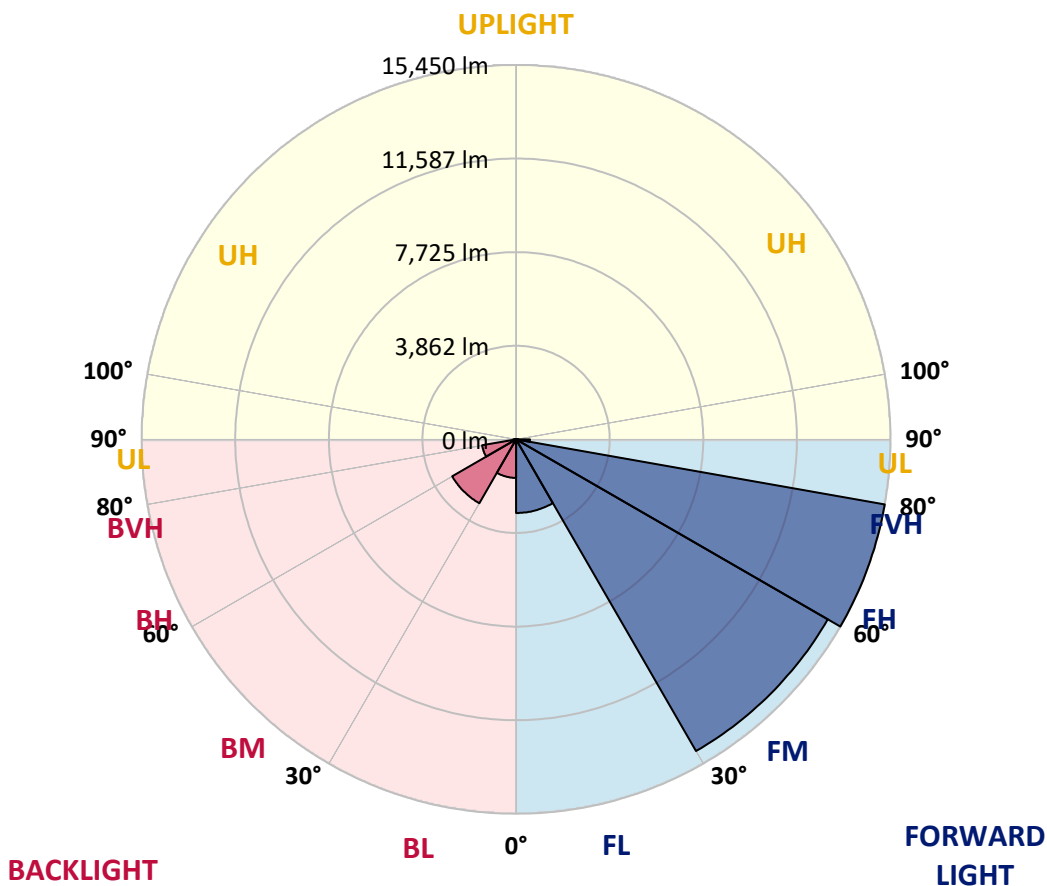
CATALOG NUMBER: GWS-SA5F-740-U-SL4-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3038.8	7.6			
FM (30°-60°)	14851.0	37.0			
FH (60°-80°)	15449.8	38.5			G5
FVH (80°-90°)	571.5	1.4			G4/750
BL (0°-30°)	1591.2	4.0	B3/2500		
BM (30°-60°)	3043.3	7.6	B3/5000		
BH (60°-80°)	1425.0	3.6	B3/2500		G3/2500
BVH (80°-90°)	114.7	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°	6806.9	6806.9	6806.9	6806.9	6806.9	6806.9	6806.9	6806.9	6806.9	6806.9	6806.9
2.5°	6848.8	6860.8	6869.8	6881.7	6875.7	6857.8	6872.8	6872.8	6839.8	6803.9	6771.0
5°	6857.8	6872.8	6869.8	6866.8	6842.8	6812.9	6812.9	6795.0	6738.1	6681.3	6627.4
7.5°	6839.8	6836.8	6833.9	6824.9	6798.0	6765.0	6759.1	6723.1	6648.3	6570.6	6492.8
10°	6759.1	6756.1	6765.0	6786.0	6780.0	6750.1	6750.1	6717.2	6630.4	6534.6	6432.9
12.5°	6693.2	6693.2	6729.1	6786.0	6806.9	6795.0	6798.0	6774.0	6675.3	6561.6	6441.9
15°	6702.2	6705.2	6783.0	6875.7	6914.6	6905.7	6908.7	6881.7	6771.0	6657.3	6495.8
17.5°	6762.0	6777.0	6911.6	7040.3	7091.2	7079.2	7058.3	7013.4	6887.7	6759.1	6561.6
20°	6887.7	6911.6	7085.2	7246.8	7306.6	7279.7	7243.8	7154.0	7016.4	6875.7	6633.4
22.5°	7136.1	7151.0	7342.5	7501.1	7549.0	7516.0	7444.2	7315.6	7157.0	7010.4	6720.2
25°	7486.1	7504.1	7686.6	7833.2	7821.2	7782.3	7683.6	7525.0	7336.5	7180.9	6845.8
27.5°	7902.0	7931.9	8111.5	8228.2	8150.4	8093.5	7982.8	7791.3	7578.9	7438.3	7037.3
30°	8356.8	8368.8	8521.4	8638.1	8518.4	8440.6	8305.9	8099.5	7908.0	7803.3	7324.6
32.5°	8796.6	8808.6	8940.3	9006.1	8880.4	8823.6	8706.9	8488.5	8353.8	8297.0	7752.4
35°	9260.4	9257.4	9365.1	9422.0	9293.3	9269.4	9149.7	8982.2	8958.2	9033.0	8377.8
37.5°	9724.2	9697.3	9754.1	9828.9	9757.1	9781.0	9703.2	9646.4	9739.1	9933.6	9209.5
40°	10095.2	10095.2	10155.0	10247.8	10271.7	10376.4	10331.6	10406.4	10705.6	11169.3	10238.8
42.5°	10424.3	10427.3	10553.0	10696.6	10870.1	11031.7	11067.6	11262.1	11881.5	12608.5	11531.4
45°	10768.4	10771.4	10941.9	11151.4	11519.4	11827.6	11899.4	12336.2	13221.9	14107.5	12934.7
47.5°	11166.4	11133.4	11369.8	11719.9	12243.5	12686.3	12871.8	13491.2	14610.2	15699.3	14257.1
50°	11615.2	11546.3	11809.6	12414.0	13060.3	13667.7	13978.9	14688.0	16100.3	17168.4	15501.8
52.5°	12120.8	12081.9	12357.2	13093.2	14080.6	14780.8	15202.6	16133.2	17548.4	18631.5	16489.2
55°	12749.1	12656.4	13054.3	13990.9	15277.4	16169.1	16668.7	17563.4	19131.2	19960.0	17243.2
57.5°	13437.3	13335.6	13868.2	15112.9	16833.3	17811.7	18437.0	19173.1	20621.2	20977.3	17686.0
60°	14179.4	14146.4	14777.8	16429.4	18688.4	19825.4	20277.2	20944.4	21916.8	21566.7	17575.3
62.5°	14858.5	14846.6	15765.1	17856.6	20654.2	21904.8	22263.9	22440.4	22850.3	21527.8	16695.7
65°	15573.6	15675.4	16917.1	19511.2	22907.2	24133.9	24283.5	23834.7	23164.5	20507.5	14894.5
67.5°	15663.4	15860.9	17641.2	21061.1	25043.5	26201.4	26081.7	24364.3	22237.0	17668.1	11675.0
70°	14008.8	14352.9	16486.2	21297.5	26548.5	27401.2	26536.5	23224.3	18870.9	12800.0	7342.5
72.5°	11704.9	12001.1	13886.1	18161.8	24606.7	25692.8	24522.9	19657.8	13335.6	7342.5	3740.1
75°	9110.8	9454.9	11193.3	14436.7	18422.1	18855.9	18269.5	13709.6	7330.5	3028.0	1699.5
77.5°	5559.2	5807.6	7160.0	9781.0	12889.8	12240.5	10373.5	7686.6	3216.5	1451.1	1050.2
80°	2459.5	2612.1	3527.6	5254.0	7447.2	7040.3	5550.3	3282.3	1759.3	921.6	733.1
82.5°	1319.5	1418.2	1738.4	2079.5	3270.3	3419.9	2773.6	1891.0	945.5	526.6	418.9
85°	580.5	637.3	789.9	754.0	1074.1	1056.2	1065.2	1298.6	451.8	242.4	272.3
87.5°	0.0	0.0	0.0	0.0	3.0	3.0	32.9	173.5	44.9	71.8	62.8
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°	6806.9	6806.9	6806.9	6806.9	6806.9	6806.9	6806.9	6806.9	6806.9	6806.9	6806.9
2.5°	6735.1	6681.3	6666.3	6648.3	6615.4	6558.6	6516.7	6468.8	6447.9	6423.9	6426.9
5°	6567.6	6501.7	6438.9	6358.1	6256.4	6142.7	6064.9	5975.1	5927.3	5882.4	5894.3
7.5°	6423.9	6322.2	6193.6	6023.0	5840.5	5637.0	5472.5	5343.8	5257.0	5197.2	5227.1
10°	6334.2	6214.5	5990.1	5711.8	5403.7	5092.5	4856.1	4634.7	4497.1	4389.3	4383.4
12.5°	6316.2	6160.6	5834.5	5430.6	4984.8	4568.9	4221.8	3922.6	3740.1	3605.4	3656.3
15°	6334.2	6136.7	5699.9	5170.3	4607.8	4045.3	3614.4	3270.3	3051.9	2929.2	2920.2
17.5°	6355.1	6112.8	5547.3	4889.0	4212.8	3569.5	3069.8	2704.8	2480.4	2357.7	2360.7
20°	6373.1	6076.9	5367.7	4580.8	3811.9	3126.7	2609.1	2262.0	2061.5	1971.8	1986.7
22.5°	6403.0	6041.0	5176.3	4251.7	3402.0	2698.8	2244.0	1962.8	1843.1	1783.3	1786.3
25°	6459.8	6020.0	4978.8	3892.7	2998.0	2357.7	1992.7	1804.2	1729.4	1693.5	1690.5
27.5°	6576.5	6038.0	4772.3	3545.6	2633.0	2097.4	1831.1	1708.5	1657.6	1633.7	1630.7
30°	6771.0	6109.8	4592.8	3192.5	2318.8	1894.0	1720.4	1645.6	1615.7	1594.8	1591.8
32.5°	7067.2	6244.4	4398.3	2863.4	2064.5	1744.4	1633.7	1594.8	1573.8	1561.9	1561.9
35°	7516.0	6489.8	4206.8	2576.2	1867.0	1627.7	1564.8	1549.9	1531.9	1525.9	1531.9
37.5°	8162.3	6881.7	4033.3	2324.8	1726.4	1537.9	1490.0	1496.0	1481.1	1490.0	1499.0
40°	8982.2	7405.3	3886.7	2118.4	1621.7	1472.1	1424.2	1445.2	1436.2	1445.2	1460.1
42.5°	10020.4	8054.6	3776.0	1956.8	1546.9	1418.2	1373.4	1394.3	1388.3	1400.3	1415.2
45°	11178.3	8910.3	3725.1	1843.1	1493.0	1379.3	1331.5	1346.4	1340.4	1349.4	1364.4
47.5°	12288.4	9688.3	3770.0	1777.3	1448.2	1346.4	1295.6	1301.5	1298.6	1295.6	1304.5
50°	13245.8	10307.6	3898.6	1756.3	1418.2	1313.5	1265.6	1268.6	1259.7	1241.7	1247.7
52.5°	14026.8	10804.3	3976.4	1756.3	1403.3	1277.6	1232.7	1235.7	1217.8	1193.8	1196.8
55°	14541.4	11004.8	3913.6	1753.3	1397.3	1247.7	1199.8	1202.8	1184.9	1154.9	1157.9
57.5°	14688.0	10810.3	3650.3	1720.4	1391.3	1223.8	1166.9	1172.9	1160.9	1128.0	1128.0
60°	14278.1	10098.2	3168.6	1645.6	1376.3	1208.8	1143.0	1151.9	1146.0	1113.0	1113.0
62.5°	13203.9	8832.5	2594.1	1531.9	1334.5	1190.8	1122.0	1140.0	1154.9	1137.0	1134.0
65°	11193.3	7076.2	2109.4	1406.3	1280.6	1160.9	1092.1	1137.0	1169.9	1193.8	1193.8
67.5°	8398.7	5065.6	1720.4	1274.6	1199.8	1101.1	1053.2	1095.1	1119.0	1134.0	1143.0
70°	5119.4	2980.1	1355.4	1122.0	1083.1	1011.3	975.4	933.5	900.6	894.6	897.6
72.5°	2504.4	1705.5	1101.1	954.5	924.5	858.7	777.9	760.0	745.0	736.0	733.1
75°	1379.3	1187.8	909.6	792.9	739.0	658.3	640.3	610.4	604.4	592.4	595.4
77.5°	975.4	936.5	751.0	643.3	562.5	520.6	529.6	508.6	508.6	499.7	496.7
80°	733.1	736.0	577.5	469.8	415.9	400.9	409.9	409.9	403.9	400.9	397.9
82.5°	463.8	523.6	389.0	302.2	296.2	299.2	296.2	293.2	299.2	290.2	287.2
85°	320.1	377.0	236.4	179.5	179.5	176.5	182.5	179.5	185.5	176.5	176.5
87.5°	71.8	167.6	86.8	53.9	56.8	53.9	56.8	59.8	65.8	68.8	68.8
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)