

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: P643642

Luminaire Tested: GWS-SA6F-735-U-SL2-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643642
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-27)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SAGF-735-U-SL2-W
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48238.1 lumens
Efficiency: N/A
Efficacy: 129.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G5

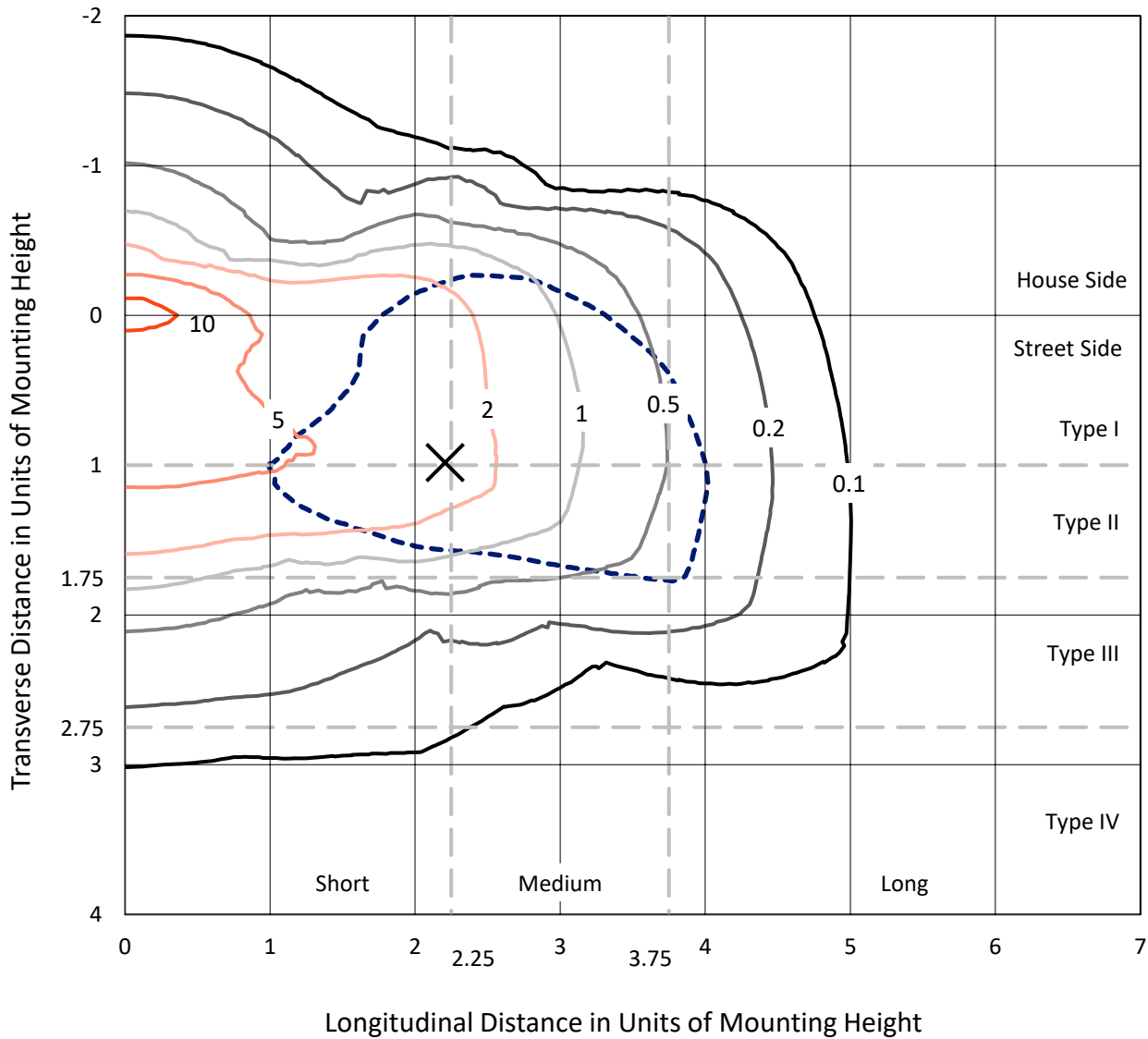
Input Watts (W): 372.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

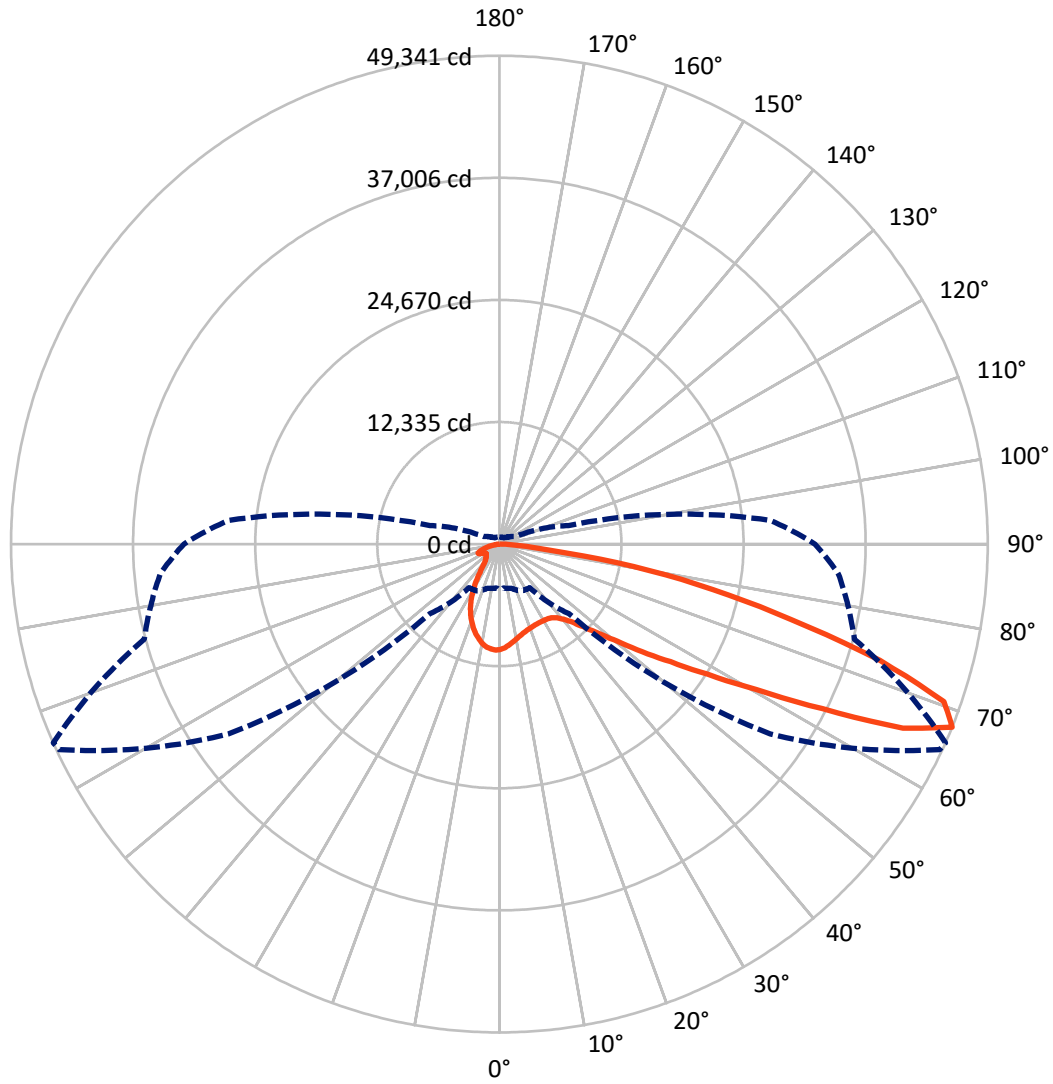
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9788.6	0.0	9788.6
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	38449.5	0.0	38449.5
	% Fixture	79.7	0.0	79.7
Total	Lumens	48238.1	0.0	48238.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	935.5	1.9
10°-20°	2299.1	4.8
20°-30°	3160.1	6.6
30°-40°	4320.4	9.0
40°-50°	6546.6	13.6
50°-60°	10176.8	21.1
60°-70°	12390.1	25.7
70°-80°	7547.4	15.6
80°-90°	862.1	1.8
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°	48238.1	100.0
0°-180°	48238.1	100.0

Coefficient of Utilization



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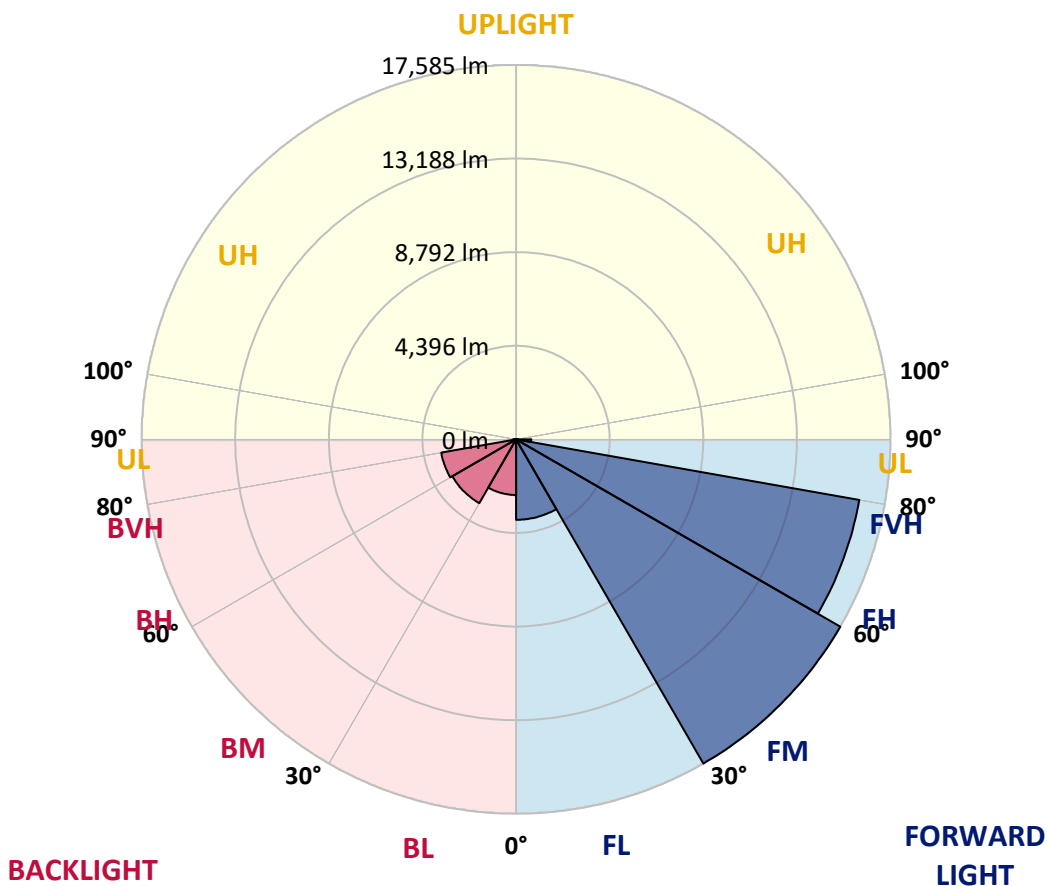
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3779.7	7.8			
FM (30°-60°)	17584.6	36.5			
FH (60°-80°)	16368.4	33.9			G5
FVH (80°-90°)	716.8	1.5			G4/750
BL (0°-30°)	2615.0	5.4	B4/5000		
BM (30°-60°)	3459.2	7.2	B3/5000		
BH (60°-80°)	3569.1	7.4	B4/5000		G4/5000
BVH (80°-90°)	145.3	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	10659.3	10659.3	10659.3	10659.3	10659.3	10659.3	10659.3	10659.3	10659.3	10659.3	10659.3
2.5°	9983.6	10018.8	9997.7	10131.4	10138.4	10307.3	10402.4	10483.3	10490.3	10595.9	10666.3
5°	9300.9	9322.0	9322.0	9448.7	9533.1	9758.4	9976.6	10208.8	10226.4	10479.8	10673.3
7.5°	8748.4	8769.5	8755.4	8924.4	9033.4	9283.3	9561.3	9916.7	9951.9	10360.1	10698.0
10°	8315.6	8308.5	8343.7	8498.5	8639.3	8938.4	9248.1	9652.8	9705.6	10222.9	10726.1
12.5°	8020.0	8027.0	8048.1	8210.0	8361.3	8656.9	8977.1	9417.0	9473.3	10064.5	10712.0
15°	7879.2	7865.1	7882.7	8030.5	8174.8	8435.2	8766.0	9220.0	9276.3	9923.8	10715.6
17.5°	7847.5	7837.0	7833.4	7939.0	8048.1	8290.9	8607.6	9068.6	9128.5	9832.3	10736.7
20°	7946.1	7932.0	7893.3	7939.0	7984.8	8188.9	8495.0	8959.5	9026.4	9772.4	10778.9
22.5°	8217.0	8192.4	8132.6	8076.3	8016.4	8139.6	8424.6	8878.6	8945.5	9733.7	10821.1
25°	8628.7	8607.6	8544.3	8417.6	8199.4	8178.3	8410.6	8843.4	8910.3	9705.6	10838.7
27.5°	9195.3	9163.6	9100.3	8917.3	8561.9	8322.6	8463.4	8839.9	8903.2	9673.9	10821.1
30°	9867.5	9846.3	9811.2	9589.5	9114.4	8628.7	8583.0	8868.0	8917.3	9656.3	10785.9
32.5°	10550.2	10529.0	10557.2	10451.6	9867.5	9135.5	8843.4	8945.5	8980.7	9652.8	10754.3
35°	11151.9	11176.6	11380.7	11398.3	10824.6	9821.7	9255.1	9124.9	9132.0	9723.2	10768.3
37.5°	11781.8	11876.8	12144.3	12373.0	11894.4	10729.6	9867.5	9462.8	9455.7	9902.7	10856.3
40°	12615.9	12658.1	12999.4	13428.8	13129.6	11975.4	10736.7	10015.3	9966.0	10268.6	11092.1
42.5°	13428.8	13530.8	14076.3	14568.9	14470.4	13379.5	11831.1	10842.2	10754.3	10916.1	11577.7
45°	14463.4	14561.9	15174.2	15807.6	15987.1	14966.6	13231.7	12017.6	11929.6	11890.9	12468.1
47.5°	15498.0	15600.0	16149.0	17064.0	17693.9	16951.3	15054.6	13569.5	13425.2	13273.9	13812.3
50°	16194.7	16314.4	16838.7	17936.7	19414.7	19428.8	17215.3	15603.5	15420.5	15181.3	15705.6
52.5°	16170.1	16247.5	16747.2	18014.1	20653.4	22275.7	20107.9	18193.6	18045.8	17524.9	17982.4
55°	14899.7	15015.9	15519.1	17102.7	20787.1	24974.8	24359.0	21248.1	20984.2	20051.6	20554.9
57.5°	12348.4	12446.9	12953.7	14906.8	19601.2	26357.8	29757.2	25140.2	24777.7	22803.5	23384.2
60°	9322.0	9202.4	9441.7	11151.9	16764.8	26393.0	34522.0	30418.8	29813.5	25745.5	26231.1
62.5°	6995.9	6876.3	6929.0	7411.2	11366.6	24260.4	37238.8	37639.9	36640.5	29067.5	28972.5
65°	5528.5	5461.6	5612.9	5943.7	6626.4	18475.1	37259.9	45448.7	44818.8	32917.3	31784.2
67.5°	4504.4	4462.2	4617.0	5229.3	5373.6	9927.3	33410.0	49094.5	49340.8	37133.2	34391.8
70°	3628.2	3564.8	3807.6	4613.5	4997.1	6007.0	23933.2	47236.4	47634.1	39645.8	33656.3
72.5°	2505.6	2509.1	2632.3	3737.2	4824.6	5187.1	13537.8	39332.6	40194.8	37369.0	29588.3
75°	1689.2	1703.2	1738.4	2466.9	4444.6	5032.3	7214.1	29778.3	30387.1	30886.8	24457.5
77.5°	1020.5	1027.6	1108.5	1492.1	3065.1	4698.0	4888.0	21586.0	22064.5	20361.3	15160.1
80°	591.2	615.8	689.7	999.4	2069.2	3529.6	3783.0	13235.2	13777.1	9051.0	4817.6
82.5°	260.4	278.0	376.5	580.6	1207.0	3001.8	2952.5	5229.3	5151.9	2523.2	1671.6
85°	45.7	56.3	80.9	183.0	443.4	1583.6	2290.9	2308.5	2171.3	957.2	693.3
87.5°	0.0	0.0	0.0	0.0	0.0	10.6	344.9	619.4	615.8	271.0	239.3
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°	10659.3	10659.3	10659.3	10659.3	10659.3	10659.3	10659.3	10659.3	10659.3	10659.3	10659.3
2.5°	10712.0	10617.0	10701.5	10712.0	10694.4	10680.4	10574.8	10483.3	10472.7	10374.2	10374.2
5°	10750.7	10662.8	10705.0	10624.1	10497.4	10367.2	10141.9	9987.1	9916.7	9790.0	9790.0
7.5°	10803.5	10712.0	10662.8	10462.2	10166.6	9881.5	9519.1	9216.4	9093.3	8913.8	8906.8
10°	10852.8	10736.7	10567.8	10177.1	9705.6	9251.6	8723.8	8294.4	8002.4	7787.7	7787.7
12.5°	10849.3	10698.0	10363.6	9786.5	9135.5	8477.4	7773.6	7126.1	6739.0	6404.7	6383.6
15°	10842.2	10634.6	10103.2	9332.6	8470.4	7559.0	6601.8	5757.2	5183.6	4856.3	4828.2
17.5°	10835.2	10553.7	9811.2	8815.3	7661.0	6418.8	5155.4	4240.5	3761.9	3561.3	3568.3
20°	10835.2	10462.2	9498.0	8220.5	6728.5	5053.4	3783.0	3117.9	2998.2	3008.8	3019.4
22.5°	10803.5	10349.6	9149.6	7573.0	5690.3	3716.1	2790.6	2565.4	2628.7	2727.3	2741.4
25°	10729.6	10163.1	8744.9	6855.1	4455.1	2706.2	2276.8	2234.6	2350.7	2473.9	2509.1
27.5°	10613.5	9948.4	8290.9	6014.1	3279.8	2174.8	2002.3	1998.8	2090.3	2181.8	2213.5
30°	10490.3	9709.1	7812.3	5078.0	2375.4	1893.3	1826.4	1826.4	1872.1	1928.4	1921.4
32.5°	10346.1	9466.3	7298.5	4103.2	1935.5	1734.9	1713.8	1703.2	1710.3	1731.4	1731.4
35°	10222.9	9251.6	6770.7	3072.1	1734.9	1646.9	1625.8	1601.2	1590.6	1576.5	1583.6
37.5°	10177.1	9082.7	6225.2	2315.5	1636.4	1583.6	1548.4	1513.2	1488.6	1481.5	1478.0
40°	10251.0	9012.3	5679.8	1907.3	1566.0	1516.7	1478.0	1432.3	1411.1	1411.1	1411.1
42.5°	10539.6	9065.1	5123.8	1724.3	1516.7	1460.4	1404.1	1361.9	1354.8	1361.9	1365.4
45°	11067.5	9269.2	4546.6	1632.8	1474.5	1404.1	1337.2	1305.6	1305.6	1312.6	1312.6
47.5°	12010.6	9804.1	3976.5	1576.5	1432.3	1358.4	1288.0	1256.3	1252.8	1259.8	1259.8
50°	13643.4	10768.3	3462.8	1537.8	1400.6	1323.2	1252.8	1210.6	1200.0	1196.5	1196.5
52.5°	15702.1	12439.9	3135.5	1509.7	1361.9	1284.5	1214.1	1157.8	1136.7	1126.1	1126.1
55°	18190.1	14667.5	3135.5	1488.6	1312.6	1238.7	1157.8	1101.5	1069.8	1055.7	1055.7
57.5°	21008.8	17261.0	3677.4	1471.0	1273.9	1185.9	1097.9	1041.6	1006.5	985.3	985.3
60°	23876.9	20002.4	5018.2	1446.3	1238.7	1119.1	1031.1	978.3	932.6	907.9	904.4
62.5°	26850.5	23021.7	6784.8	1460.4	1214.1	1055.7	960.7	900.9	862.2	837.5	834.0
65°	29574.2	25896.8	8329.6	1569.5	1217.6	999.4	879.8	827.0	795.3	763.6	760.1
67.5°	31886.3	27483.9	7245.8	1791.2	1291.5	932.6	798.8	746.0	717.9	696.8	693.3
70°	30267.5	25062.8	4110.3	1928.4	1393.6	862.2	707.3	672.1	644.0	629.9	626.4
72.5°	25882.7	21220.0	2748.4	1703.2	1270.4	770.7	622.9	594.7	573.6	556.0	552.5
75°	20966.6	16828.2	2100.9	1397.1	988.9	626.4	534.9	513.8	492.7	475.1	471.6
77.5°	12404.7	9723.2	1548.4	1105.0	696.8	489.2	443.4	425.8	404.7	390.6	387.1
80°	3958.9	3378.3	981.8	760.1	461.0	376.5	341.3	327.3	306.2	288.6	285.0
82.5°	1509.7	1305.6	520.8	387.1	306.2	256.9	228.7	214.7	200.6	183.0	179.5
85°	668.6	626.4	288.6	207.6	165.4	126.7	112.6	105.6	88.0	73.9	70.4
87.5°	235.8	235.8	123.2	59.8	35.2	17.6	10.6	3.5	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)