

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: P642205

Luminaire Tested: GWS-SA6C-740-U-AFL-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P642205
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-45)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA6C-740-U-AFL-W
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND
AUTOMOTIVE FRONTLINE OPTICS
Light Source: (96) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28914.8 lumens
Efficiency: N/A
Efficacy: 152.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

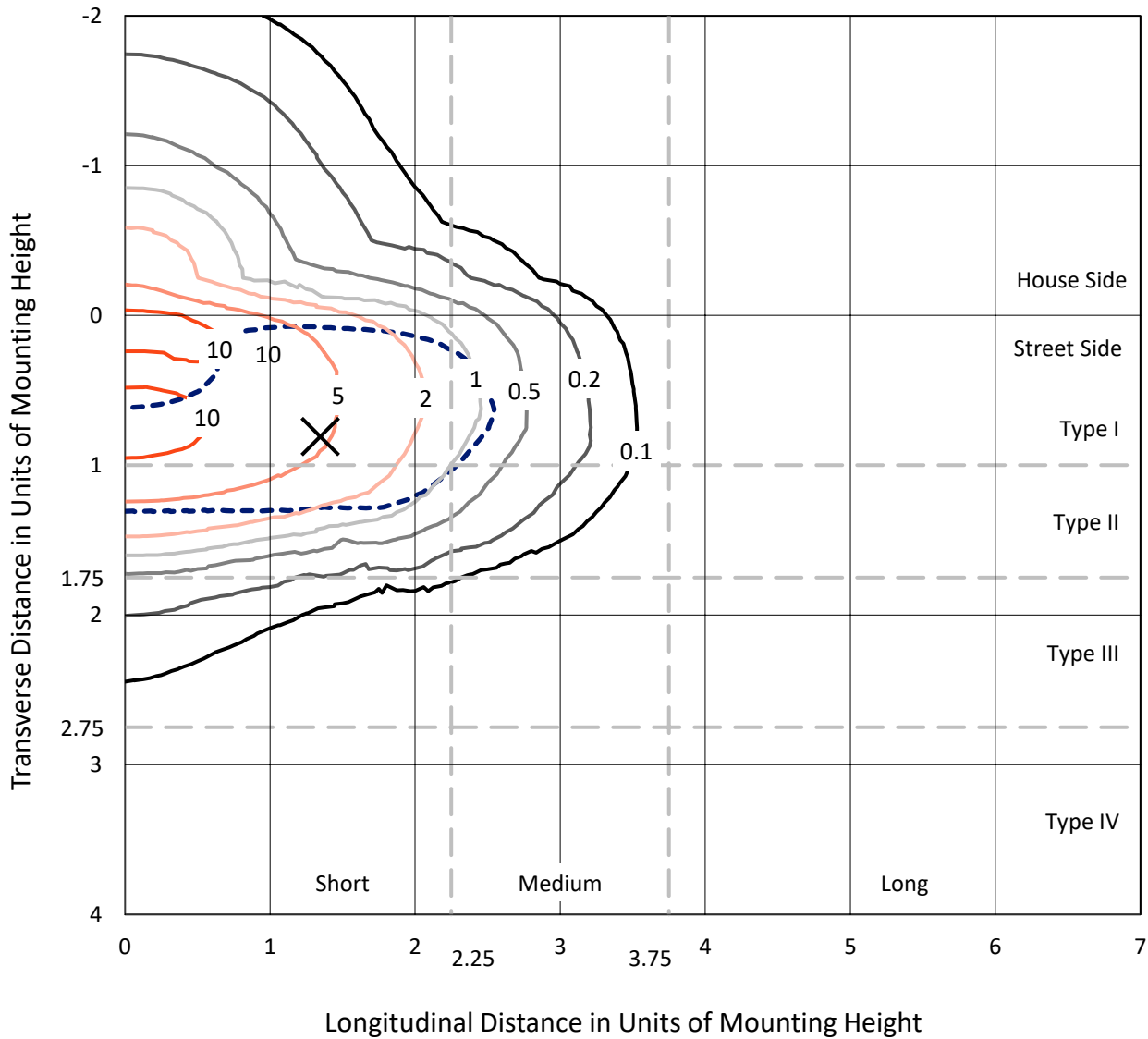
Input Watts (W): 189.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

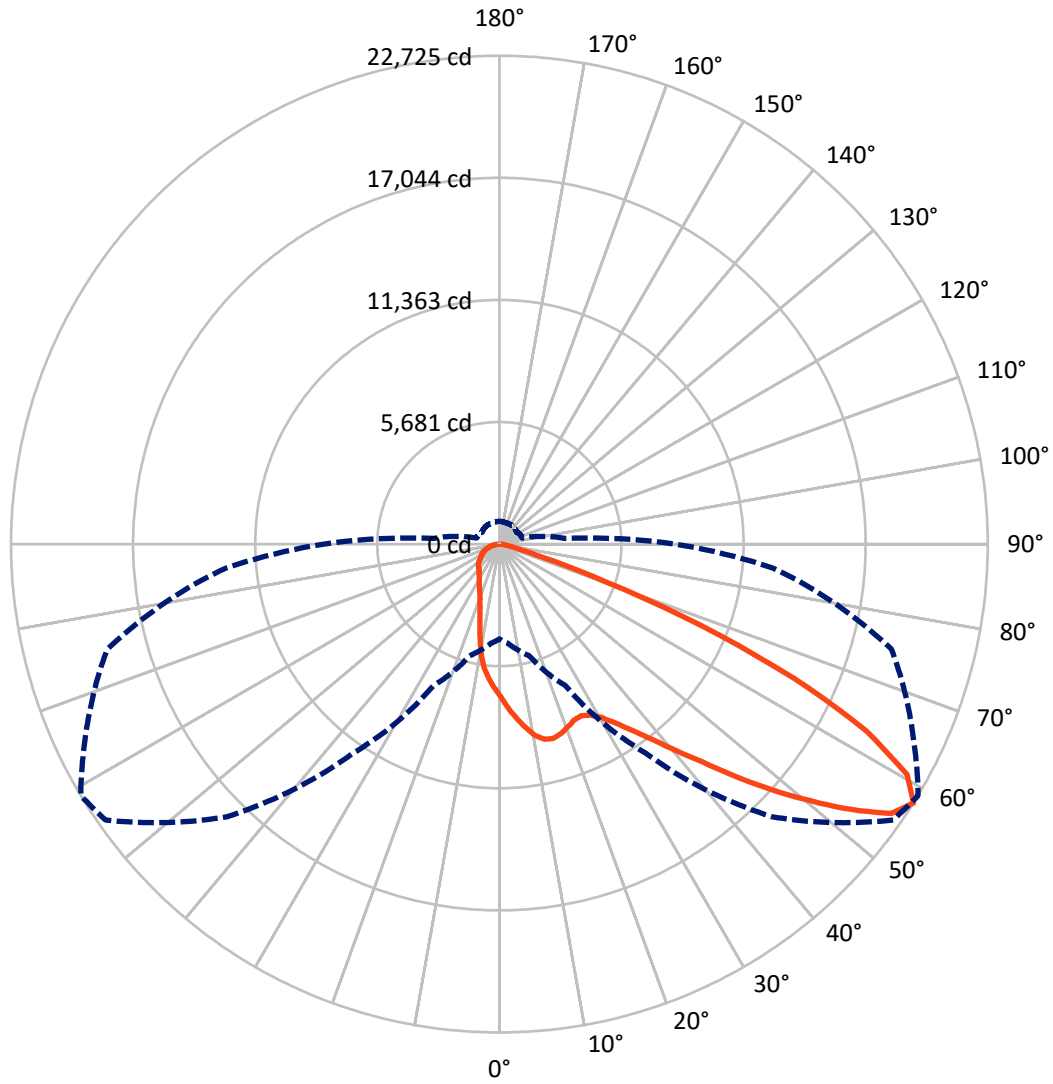
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4487.4	0.0	4487.4
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	24427.4	0.0	24427.4
	% Fixture	84.5	0.0	84.5
Total	Lumens	28914.8	0.0	28914.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	659.1	2.3
10°-20°	1670.1	5.8
20°-30°	2707.2	9.4
30°-40°	4354.9	15.1
40°-50°	6762.7	23.4
50°-60°	7284.3	25.2
60°-70°	4227.5	14.6
70°-80°	1103.6	3.8
80°-90°	145.4	0.5
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°	28914.8	100.0
0°-180°	28914.8	100.0

Coefficient of Utilization



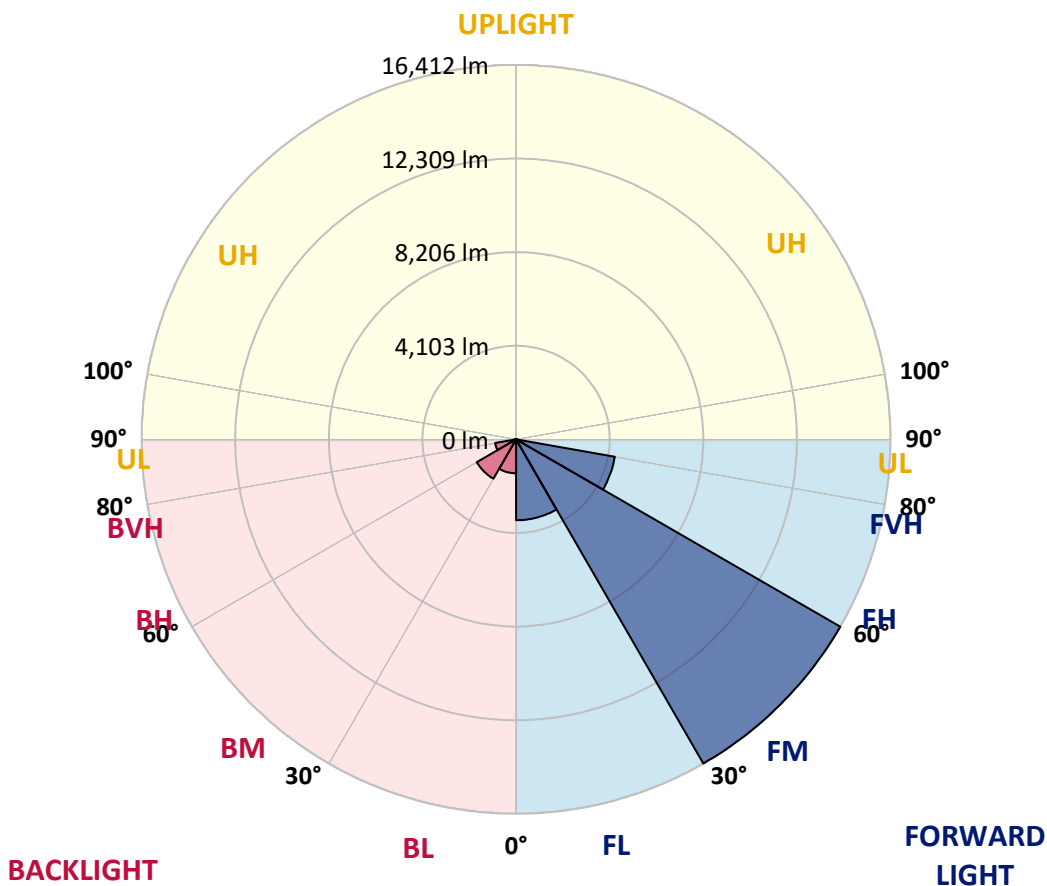
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3547.6	12.3			
FM (30°-60°)	16412.4	56.8			
FH (60°-80°)	4397.8	15.2			G2/5000
FVH (80°-90°)	69.6	0.2			G1/100
BL (0°-30°)	1488.7	5.1	B3/2500		
BM (30°-60°)	1989.5	6.9	B2/2500		
BH (60°-80°)	933.4	3.2	B2/1000		G2/1000
BVH (80°-90°)	75.8	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-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	7098.0	7098.0	7098.0	7098.0	7098.0	7098.0	7098.0	7098.0	7098.0	7098.0	7098.0
2.5°	8050.6	7983.5	8030.3	7946.8	7912.2	7820.6	7702.6	7623.2	7501.0	7342.3	7203.9
5°	8850.6	8803.8	8814.0	8724.4	8645.0	8492.4	8250.1	8115.8	7908.2	7588.6	7291.4
7.5°	8826.2	8881.2	8911.7	8989.0	9011.4	8997.2	8779.4	8592.1	8364.1	7883.7	7435.9
10°	7912.2	8016.0	8109.7	8374.3	8695.9	9103.0	9153.9	9042.0	8811.9	8260.3	7608.9
12.5°	6916.8	6996.2	7079.7	7397.2	7889.8	8704.1	9255.7	9324.9	9233.3	8632.8	7804.3
15°	6428.3	6464.9	6544.3	6754.0	7146.9	8050.6	9078.6	9381.9	9546.8	9027.7	8024.2
17.5°	6407.9	6424.2	6462.9	6574.9	6847.6	7545.8	8759.0	9267.9	9793.1	9445.0	8280.7
20°	6829.3	6786.6	6762.1	6760.1	6894.4	7376.9	8449.6	9084.7	9909.1	9872.5	8555.5
22.5°	7413.5	7427.8	7374.8	7244.6	7228.3	7497.0	8294.9	8899.5	9943.7	10251.1	8809.9
25°	8242.0	8313.2	8156.5	7908.2	7786.0	7845.1	8390.6	8842.5	9939.6	10566.6	8968.7
27.5°	9208.9	9263.8	9105.1	8779.4	8527.0	8384.5	8675.6	9011.4	9974.3	10839.4	9064.4
30°	10310.1	10328.4	10110.6	9768.7	9400.2	9094.9	9149.9	9359.5	10151.3	11197.6	9176.3
32.5°	11655.6	11733.0	11403.2	10861.8	10346.8	9955.9	9787.0	9921.3	10534.0	11621.0	9349.3
35°	13363.5	13389.9	12970.6	12195.1	11466.3	10924.9	10570.7	10641.9	11116.2	12213.4	9609.9
37.5°	14973.6	15000.1	14554.3	13833.7	12791.5	12050.5	11537.6	11505.0	11861.2	13050.0	10035.3
40°	15995.4	16070.8	15871.3	15419.4	14424.0	13424.5	12728.4	12616.4	12838.3	14073.9	10627.7
42.5°	16545.0	16577.6	16573.5	16632.6	16040.2	15046.9	14071.8	13847.9	13996.5	15179.2	11226.1
45°	16549.1	16630.5	16848.3	17416.3	17442.7	16823.9	15769.5	15419.4	15283.0	16292.6	11851.0
47.5°	15808.2	15895.7	16494.2	17611.7	18436.1	18576.5	17803.0	17100.8	16526.7	17251.4	12364.0
50°	13565.0	13784.8	14924.7	16901.3	18631.5	19981.1	19742.9	18790.3	17632.0	17992.3	12685.6
52.5°	11617.0	11608.8	12311.1	14894.2	17815.2	20599.9	21619.7	20528.6	18725.1	18462.5	12767.0
55°	8506.6	8553.4	9272.0	11391.0	15637.2	20001.4	22651.7	22128.6	19979.0	18712.9	12734.5
57.5°	4411.1	4643.1	5380.0	7269.0	11881.6	17941.4	22376.9	22725.0	21253.3	18890.0	12777.2
60°	2228.9	2184.2	2448.8	3470.6	6884.3	14012.8	20683.3	21792.7	21483.3	19028.4	12803.7
62.5°	1488.0	1475.8	1402.5	1608.1	2813.1	8299.0	17632.0	19187.2	19885.4	18702.7	12465.8
65°	1288.5	1264.1	1129.7	1121.6	1365.9	3442.1	12923.8	15083.5	16435.1	17255.5	11657.7
67.5°	1160.3	1123.6	987.2	920.1	981.1	1512.4	7283.2	10116.7	12136.0	14592.9	9886.7
70°	1036.1	1017.8	881.4	783.7	777.6	922.1	2682.9	5221.2	7425.7	9955.9	7228.3
72.5°	928.2	895.6	779.6	686.0	639.2	653.4	1164.3	2011.1	3843.1	6210.5	4323.5
75°	804.0	779.6	677.8	584.2	527.2	478.4	710.4	930.3	1752.6	2951.6	2041.7
77.5°	620.8	604.6	535.4	464.1	431.5	356.2	431.5	586.2	810.2	1243.7	1062.6
80°	360.3	370.5	399.0	362.3	317.5	254.4	280.9	337.9	486.5	673.8	602.5
82.5°	181.2	193.4	258.5	209.7	189.3	148.6	166.9	199.5	254.4	372.5	236.1
85°	14.2	14.2	46.8	52.9	65.1	52.9	67.2	81.4	116.0	148.6	79.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	6.1	10.2	18.3	34.6	22.4
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°	7098.0	7098.0	7098.0	7098.0	7098.0	7098.0	7098.0	7098.0	7098.0	7098.0	7098.0
2.5°	7110.2	7006.4	6882.2	6780.5	6623.7	6540.3	6434.4	6304.1	6251.2	6226.8	6212.5
5°	7124.5	6941.3	6676.6	6432.4	6161.6	5947.9	5709.8	5461.4	5318.9	5284.3	5259.9
7.5°	7177.4	6920.9	6499.5	6096.5	5593.7	5127.6	4673.7	4223.8	3993.8	3906.2	3898.1
10°	7250.7	6912.8	6320.4	5650.7	4801.9	4065.0	3533.7	3181.6	3033.0	2984.1	2967.8
12.5°	7342.3	6906.7	6084.3	5031.9	3887.9	3191.8	2888.5	2831.5	2851.8	2847.8	2847.8
15°	7458.3	6914.8	5799.3	4331.7	3144.9	2770.4	2776.5	2843.7	2906.8	2917.0	2917.0
17.5°	7584.5	6906.7	5386.1	3629.4	2699.2	2670.7	2764.3	2857.9	2914.9	2923.1	2923.1
20°	7720.9	6868.0	4865.0	2967.8	2503.7	2607.6	2709.3	2782.6	2817.2	2825.4	2825.4
22.5°	7802.3	6758.1	4299.1	2511.9	2379.6	2507.8	2575.0	2650.3	2654.4	2589.2	2587.2
25°	7790.1	6552.5	3653.8	2218.8	2247.3	2359.2	2444.7	2391.8	2326.6	2290.0	2283.9
27.5°	7712.7	6243.1	2996.3	1996.9	2090.5	2216.7	2190.3	2145.5	2129.2	2088.5	2084.4
30°	7615.0	5862.4	2406.0	1823.9	1927.7	2043.7	2003.0	1998.9	1982.6	1937.9	1937.9
32.5°	7521.4	5469.6	1960.2	1695.6	1823.9	1832.0	1889.0	1893.1	1884.9	1807.6	1799.4
35°	7494.9	5076.7	1659.0	1593.8	1722.1	1718.0	1799.4	1797.4	1656.9	1549.1	1547.0
37.5°	7574.3	4677.7	1479.9	1510.4	1581.6	1634.6	1699.7	1581.6	1534.8	1469.7	1465.6
40°	7743.3	4309.3	1388.3	1461.5	1492.1	1569.4	1467.6	1475.8	1463.6	1414.7	1408.6
42.5°	7967.2	3995.8	1337.4	1445.2	1441.2	1461.5	1349.6	1382.1	1400.5	1363.8	1357.7
45°	8183.0	3723.0	1310.9	1384.2	1404.5	1286.5	1264.1	1294.6	1323.1	1308.9	1302.8
47.5°	8341.7	3486.9	1296.7	1300.7	1357.7	1227.4	1190.8	1205.1	1239.7	1245.8	1243.7
50°	8390.6	3285.4	1280.4	1231.5	1219.3	1168.4	1139.9	1135.8	1176.6	1205.1	1209.1
52.5°	8297.0	3106.3	1237.6	1170.4	1111.4	1119.6	1109.4	1089.0	1129.7	1168.4	1172.5
55°	8158.5	3004.5	1170.4	1111.4	1042.2	1074.8	1078.8	1060.5	1087.0	1113.5	1113.5
57.5°	8168.7	3063.5	1105.3	1056.5	981.1	1023.9	1046.3	1038.1	1038.1	1058.5	1060.5
60°	8235.9	3149.0	1062.6	987.2	920.1	964.9	1015.7	1007.6	989.3	1015.7	1015.7
62.5°	8042.5	3035.0	1034.1	920.1	854.9	907.9	968.9	964.9	944.5	987.2	991.3
65°	7472.5	2729.7	1001.5	836.6	789.8	850.9	903.8	918.0	899.7	956.7	966.9
67.5°	6263.4	2296.1	938.4	757.2	724.7	781.7	832.5	852.9	838.7	905.8	914.0
70°	4669.6	1858.5	838.7	669.7	645.3	696.2	743.0	751.1	753.2	832.5	840.7
72.5°	2978.0	1445.2	706.3	572.0	553.7	592.3	627.0	659.5	673.8	749.1	747.1
75°	1661.0	1074.8	567.9	484.5	451.9	482.4	523.1	561.8	602.5	712.4	724.7
77.5°	956.7	755.2	449.9	388.8	350.1	382.7	417.3	472.3	594.4	690.1	677.8
80°	539.4	490.6	339.9	285.0	260.6	285.0	311.4	415.3	468.2	508.9	515.0
82.5°	252.4	274.8	232.1	175.1	175.1	191.3	215.8	321.6	354.2	289.0	252.4
85°	91.6	124.2	114.0	89.6	79.4	77.4	134.3	183.2	114.0	101.8	87.5
87.5°	24.4	34.6	32.6	22.4	12.2	10.2	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)