

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: P639840

Luminaire Tested: GWS-SA5C-760-U-AFL-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639840
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-SA5C-760-U-AFL-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND
AUTOMOTIVE FRONTLINE OPTICS
Light Source: (80) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24464.4 lumens
Efficiency: N/A
Efficacy: 155.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

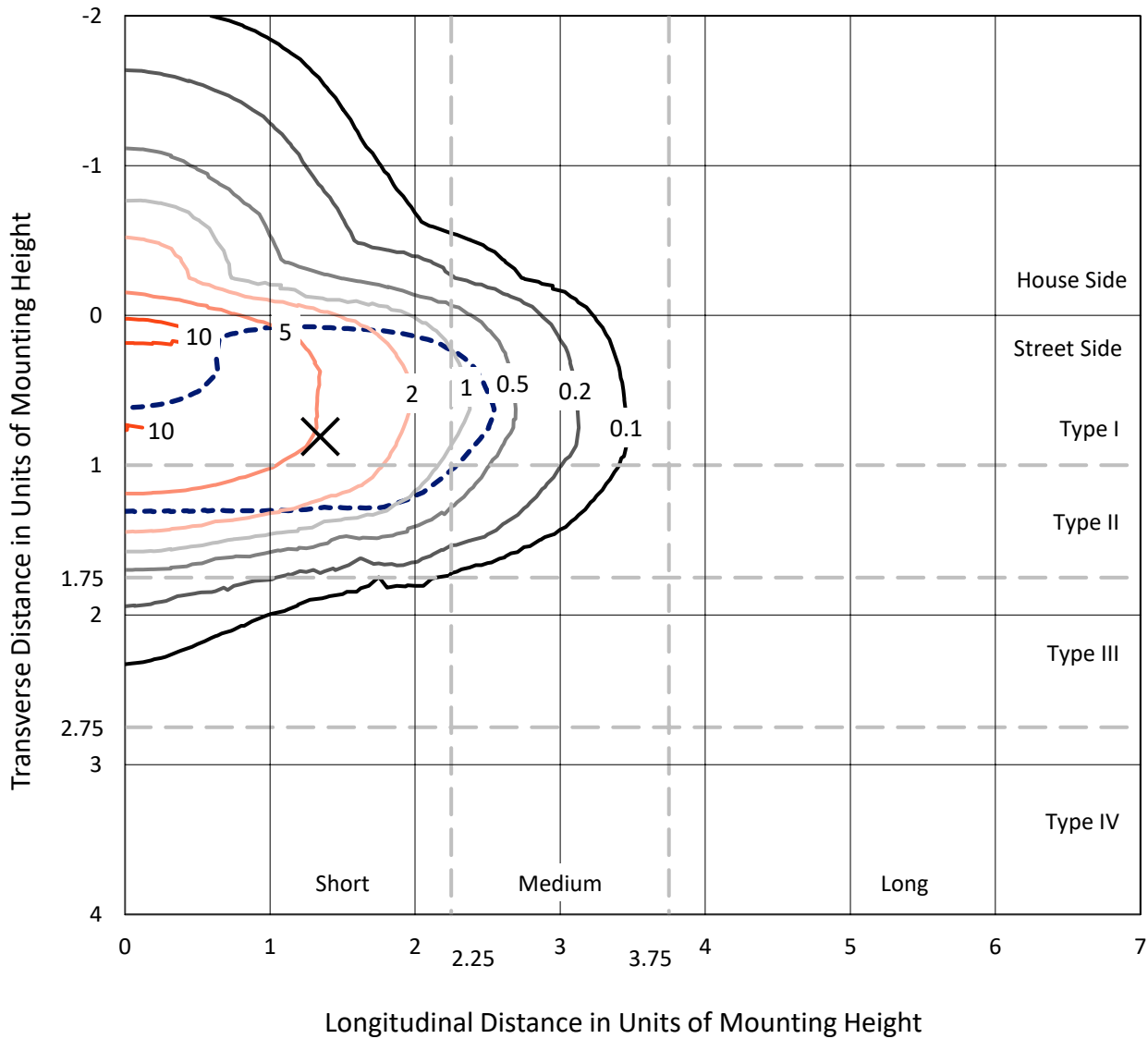
Input Watts (W): 157.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

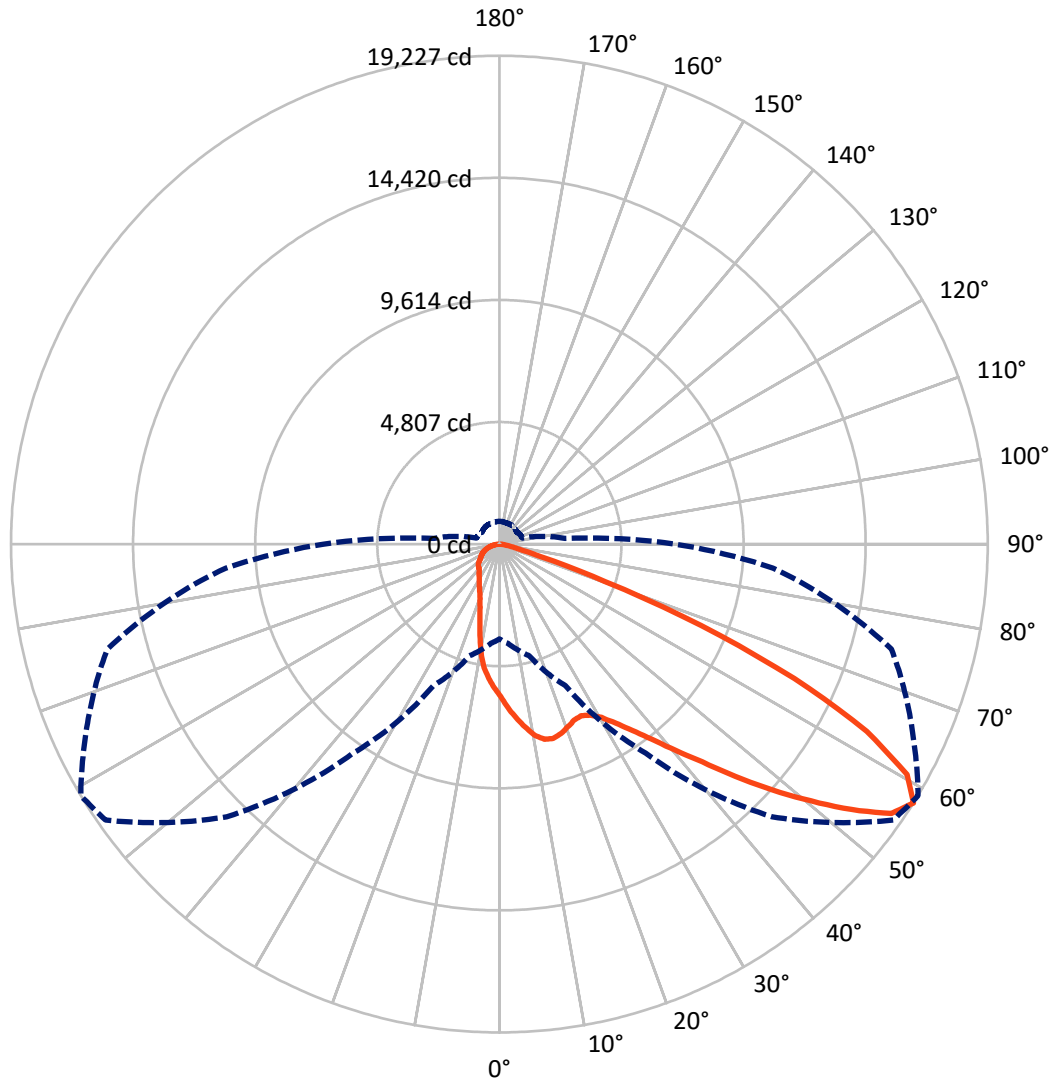
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.8 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	3796.8	0.0	3796.8
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	20667.6	0.0	20667.6
	% Fixture	84.5	0.0	84.5
Total	Lumens	24464.4	0.0	24464.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	557.6	2.3
10°-20°	1413.0	5.8
20°-30°	2290.5	9.4
30°-40°	3684.6	15.1
40°-50°	5721.8	23.4
50°-60°	6163.2	25.2
60°-70°	3576.9	14.6
70°-80°	933.8	3.8
80°-90°	123.0	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°	24464.4	100.0
0°-180°	24464.4	100.0

Coefficient of Utilization



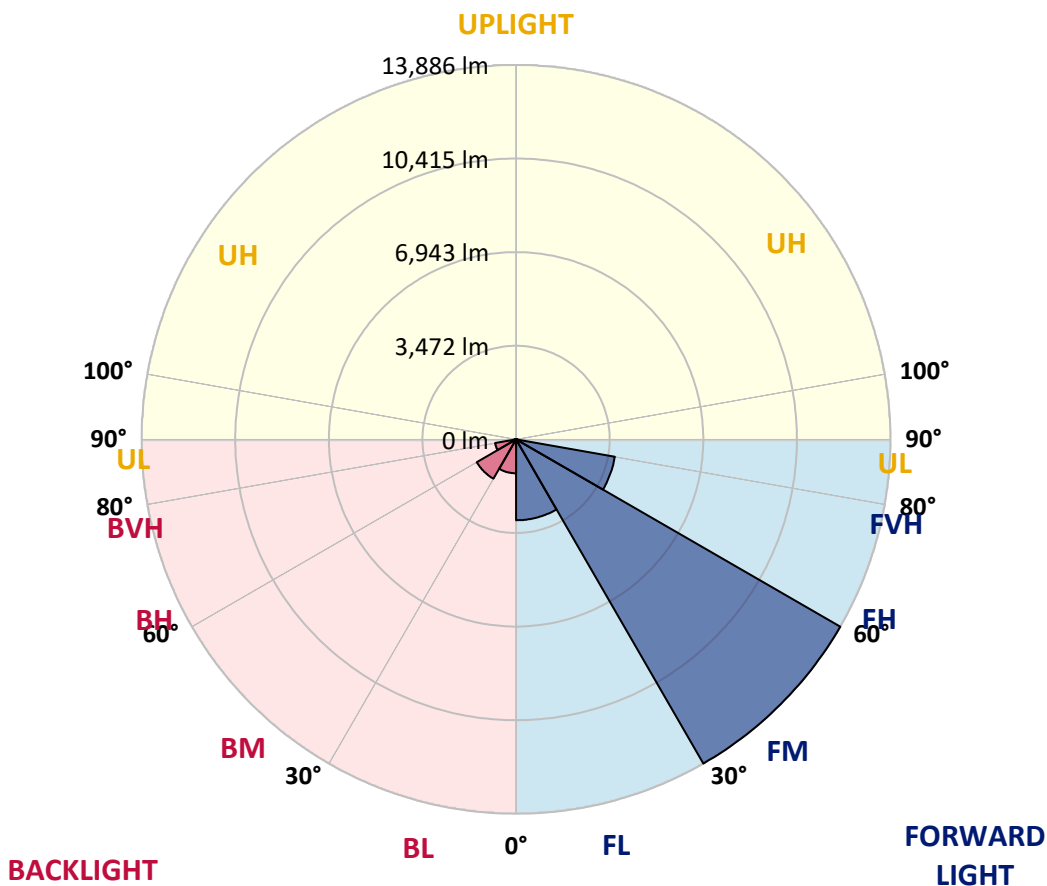
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3001.6	12.3			
FM (30°-60°)	13886.3	56.8			
FH (60°-80°)	3720.9	15.2			G2/5000
FVH (80°-90°)	58.9	0.2			G1/100
BL (0°-30°)	1259.6	5.1	B3/2500		
BM (30°-60°)	1683.3	6.9	B2/2500		
BH (60°-80°)	789.7	3.2	B2/1000		G2/1000
BVH (80°-90°)	64.1	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°	6005.5	6005.5	6005.5	6005.5	6005.5	6005.5	6005.5	6005.5	6005.5	6005.5	6005.5
2.5°	6811.5	6754.7	6794.3	6723.7	6694.4	6616.9	6517.0	6449.9	6346.5	6212.2	6095.1
5°	7488.4	7448.8	7457.4	7381.6	7314.4	7185.3	6980.3	6866.7	6691.0	6420.6	6169.1
7.5°	7467.7	7514.2	7540.1	7605.5	7624.4	7612.4	7428.1	7269.7	7076.8	6670.3	6291.4
10°	6694.4	6782.3	6861.5	7085.4	7357.5	7701.9	7745.0	7650.3	7455.7	6988.9	6437.8
12.5°	5852.2	5919.4	5990.0	6258.7	6675.5	7364.4	7831.1	7889.7	7812.2	7304.1	6603.1
15°	5438.9	5469.9	5537.1	5714.5	6046.9	6811.5	7681.3	7937.9	8077.4	7638.2	6789.1
17.5°	5421.7	5435.5	5468.2	5562.9	5793.7	6384.4	7410.9	7841.5	8285.8	7991.3	7006.2
20°	5778.2	5742.0	5721.3	5719.6	5833.3	6241.5	7149.1	7686.4	8384.0	8353.0	7238.7
22.5°	6272.5	6284.5	6239.7	6129.5	6115.7	6343.1	7018.2	7529.7	8413.2	8673.3	7453.9
25°	6973.4	7033.7	6901.1	6691.0	6587.6	6637.6	7099.2	7481.5	8409.8	8940.3	7588.3
27.5°	7791.5	7838.0	7703.7	7428.1	7214.5	7094.0	7340.3	7624.4	8439.1	9171.0	7669.2
30°	8723.2	8738.7	8554.5	8265.1	7953.4	7695.1	7741.6	7919.0	8588.9	9474.2	7763.9
32.5°	9861.7	9927.1	9648.1	9190.0	8754.2	8423.6	8280.6	8394.3	8912.7	9832.4	7910.3
35°	11306.6	11329.0	10974.2	10318.1	9701.5	9243.4	8943.7	9004.0	9405.3	10333.6	8130.8
37.5°	12668.9	12691.3	12314.2	11704.5	10822.7	10195.8	9761.8	9734.2	10035.6	11041.4	8490.7
40°	13533.5	13597.2	13428.5	13046.1	12203.9	11358.3	10769.3	10674.6	10862.3	11907.7	8991.9
42.5°	13998.5	14026.1	14022.6	14072.6	13571.4	12730.9	11906.0	11716.5	11842.3	12842.9	9498.3
45°	14002.0	14070.9	14255.1	14735.7	14758.0	14234.5	13342.3	13046.1	12930.7	13785.0	10027.0
47.5°	13375.1	13449.1	13955.5	14901.0	15598.5	15717.3	15062.9	14468.7	13983.0	14596.2	10461.0
50°	11477.1	11663.1	12627.6	14299.9	15763.8	16905.7	16704.2	15898.2	14918.2	15223.1	10733.1
52.5°	9828.9	9822.0	10416.2	12601.8	15073.2	17429.3	18292.1	17369.0	15843.1	15620.9	10802.0
55°	7197.3	7236.9	7844.9	9637.8	13230.4	16922.9	19165.3	18722.7	16904.0	15832.7	10774.5
57.5°	3732.1	3928.5	4551.9	6150.2	10052.8	15180.0	18932.8	19227.3	17982.1	15982.6	10810.6
60°	1885.9	1848.0	2071.9	2936.5	5824.7	11856.0	17499.9	18438.5	18176.7	16099.7	10833.0
62.5°	1259.0	1248.6	1186.6	1360.6	2380.2	7021.7	14918.2	16234.0	16824.8	15824.1	10547.1
65°	1090.2	1069.5	955.9	949.0	1155.6	2912.3	10934.6	12761.9	13905.5	14599.6	9863.4
67.5°	981.7	950.7	835.3	778.5	830.1	1279.6	6162.2	8559.6	10268.1	12346.9	8365.0
70°	876.6	861.1	745.7	663.1	657.9	780.2	2269.9	4417.6	6282.8	8423.6	6115.7
72.5°	785.4	757.8	659.6	580.4	540.8	552.8	985.1	1701.6	3251.6	5254.6	3658.1
75°	680.3	659.6	573.5	494.3	446.1	404.7	601.1	787.1	1482.9	2497.3	1727.4
77.5°	525.3	511.5	453.0	392.7	365.1	301.4	365.1	496.0	685.5	1052.3	899.0
80°	304.8	313.5	337.6	306.6	268.7	215.3	237.7	285.9	411.6	570.1	509.8
82.5°	153.3	163.6	218.7	177.4	160.2	125.7	141.2	168.8	215.3	315.2	199.8
85°	12.1	12.1	39.6	44.8	55.1	44.8	56.8	68.9	98.2	125.7	67.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	5.2	8.6	15.5	29.3	18.9
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°	6005.5	6005.5	6005.5	6005.5	6005.5	6005.5	6005.5	6005.5	6005.5	6005.5	6005.5
2.5°	6015.9	5928.0	5823.0	5736.8	5604.2	5533.6	5444.1	5333.8	5289.1	5268.4	5256.3
5°	6027.9	5872.9	5649.0	5442.3	5213.3	5032.4	4830.9	4620.8	4500.3	4471.0	4450.3
7.5°	6072.7	5855.7	5499.2	5158.2	4732.8	4338.4	3954.3	3573.7	3379.1	3305.0	3298.1
10°	6134.7	5848.8	5347.6	4781.0	4062.8	3439.4	2989.8	2691.9	2566.2	2524.8	2511.1
12.5°	6212.2	5843.6	5147.8	4257.4	3289.5	2700.5	2443.9	2395.7	2412.9	2409.4	2409.4
15°	6310.4	5850.5	4906.7	3665.0	2660.9	2344.0	2349.2	2406.0	2459.4	2468.0	2468.0
17.5°	6417.1	5843.6	4557.1	3070.8	2283.7	2259.6	2338.8	2418.1	2466.3	2473.2	2473.2
20°	6532.5	5810.9	4116.2	2511.1	2118.4	2206.2	2292.3	2354.3	2383.6	2390.5	2390.5
22.5°	6601.4	5717.9	3637.4	2125.3	2013.3	2121.8	2178.7	2242.4	2245.8	2190.7	2189.0
25°	6591.1	5544.0	3091.5	1877.3	1901.4	1996.1	2068.4	2023.7	1968.5	1937.5	1932.4
27.5°	6525.6	5282.2	2535.2	1689.5	1768.8	1875.5	1853.2	1815.3	1801.5	1767.0	1763.6
30°	6443.0	4960.1	2035.7	1543.1	1631.0	1729.1	1694.7	1691.3	1677.5	1639.6	1639.6
32.5°	6363.8	4627.7	1658.5	1434.6	1543.1	1550.0	1598.3	1601.7	1594.8	1529.4	1522.5
35°	6341.4	4295.3	1403.6	1348.5	1457.0	1453.6	1522.5	1520.8	1401.9	1310.6	1308.9
37.5°	6408.5	3957.8	1252.1	1277.9	1338.2	1383.0	1438.1	1338.2	1298.6	1243.5	1240.0
40°	6551.5	3646.0	1174.6	1236.6	1262.4	1327.9	1241.7	1248.6	1238.3	1197.0	1191.8
42.5°	6740.9	3380.8	1131.5	1222.8	1219.4	1236.6	1141.9	1169.4	1184.9	1153.9	1148.7
45°	6923.5	3150.0	1109.1	1171.1	1188.4	1088.5	1069.5	1095.4	1119.5	1107.4	1102.2
47.5°	7057.8	2950.2	1097.1	1100.5	1148.7	1038.5	1007.5	1019.6	1048.9	1054.0	1052.3
50°	7099.2	2779.7	1083.3	1042.0	1031.6	988.6	964.5	961.0	995.5	1019.6	1023.0
52.5°	7019.9	2628.2	1047.1	990.3	940.4	947.2	938.6	921.4	955.9	988.6	992.0
55°	6902.8	2542.1	990.3	940.4	881.8	909.4	912.8	897.3	919.7	942.1	942.1
57.5°	6911.4	2592.0	935.2	893.9	830.1	866.3	885.2	878.4	878.4	895.6	897.3
60°	6968.3	2664.3	899.0	835.3	778.5	816.4	859.4	852.5	837.0	859.4	859.4
62.5°	6804.6	2567.9	874.9	778.5	723.3	768.1	819.8	816.4	799.1	835.3	838.7
65°	6322.4	2309.6	847.4	707.8	668.2	719.9	764.7	776.7	761.2	809.5	818.1
67.5°	5299.4	1942.7	794.0	640.7	613.1	661.3	704.4	721.6	709.6	766.4	773.3
70°	3950.9	1572.4	709.6	566.6	546.0	589.0	628.6	635.5	637.2	704.4	711.3
72.5°	2519.7	1222.8	597.6	484.0	468.5	501.2	530.5	558.0	570.1	633.8	632.1
75°	1405.4	909.4	480.5	409.9	382.3	408.2	442.6	475.3	509.8	602.8	613.1
77.5°	809.5	639.0	380.6	329.0	296.2	323.8	353.1	399.6	502.9	583.8	573.5
80°	456.4	415.1	287.6	241.1	220.4	241.1	263.5	351.3	396.1	430.6	435.7
82.5°	213.6	232.5	196.3	148.1	148.1	161.9	182.6	272.1	299.7	244.6	213.6
85°	77.5	105.1	96.4	75.8	67.2	65.4	113.7	155.0	96.4	86.1	74.1
87.5°	20.7	29.3	27.6	18.9	10.3	8.6	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)