

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: P641360

Luminaire Tested: GWS-SA5F-760-U-T3R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641360
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5F-760-U-T3R-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (80) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26410.8 lumens
Efficiency: N/A
Efficacy: 85.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

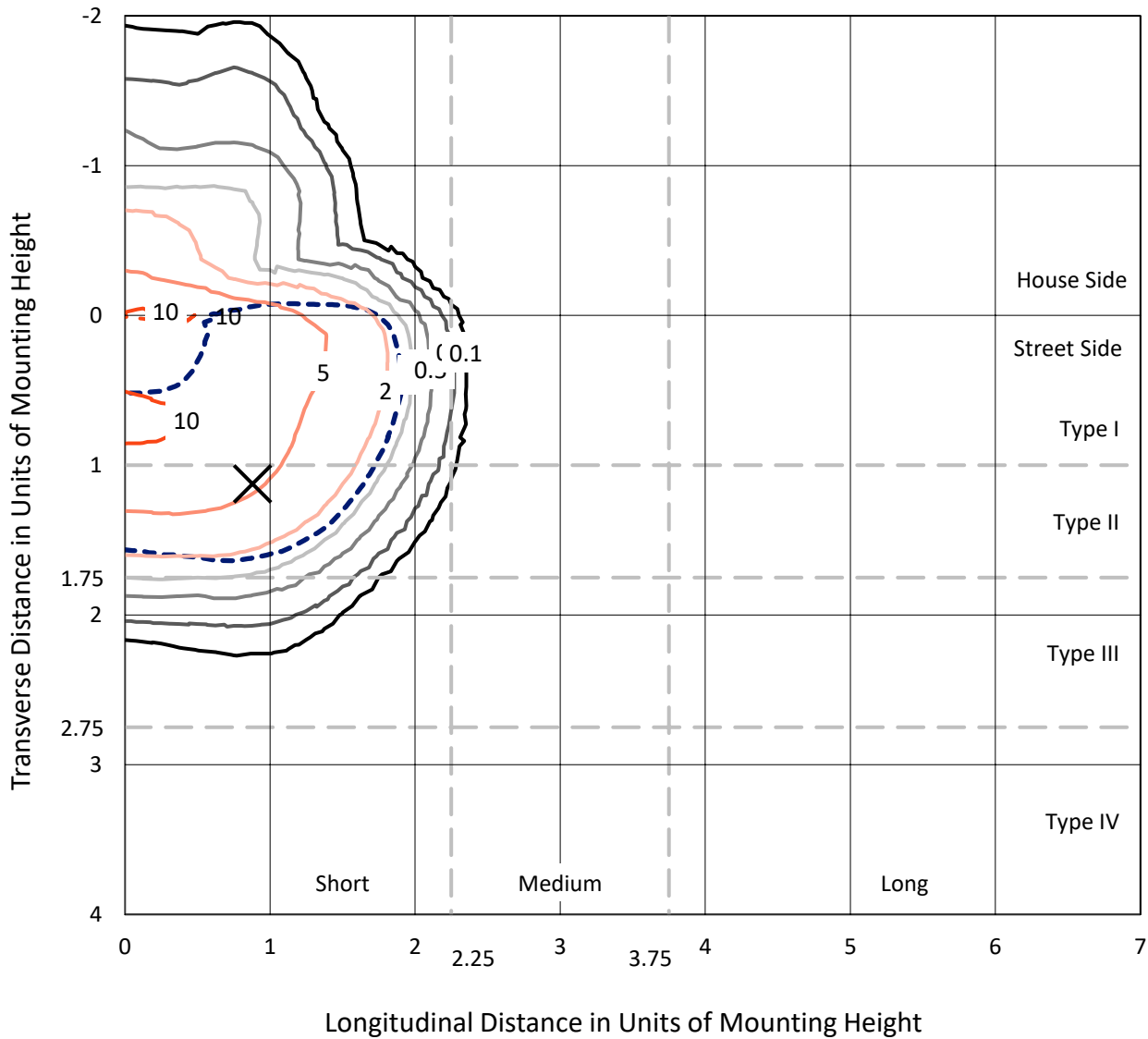
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

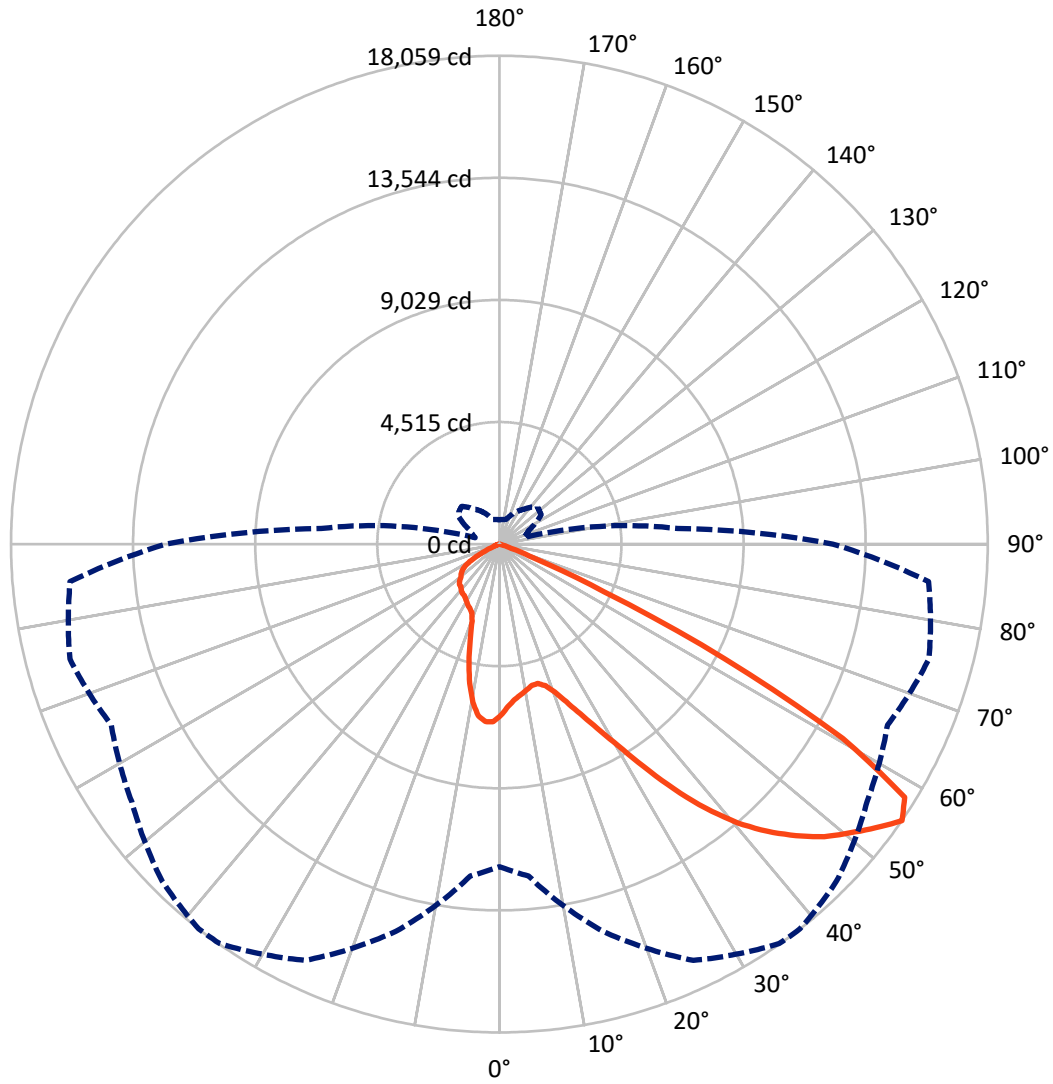
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5145.6	0.0	5145.6
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	21265.2	0.0	21265.2
	% Fixture	80.5	0.0	80.5
Total	Lumens	26410.8	0.0	26410.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	585.6	2.2
10°-20°	1576.6	6.0
20°-30°	2705.5	10.2
30°-40°	4487.2	17.0
40°-50°	6596.4	25.0
50°-60°	7708.0	29.2
60°-70°	2612.8	9.9
70°-80°	133.6	0.5
80°-90°	5.3	0.0
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°	26410.8	100.0
0°-180°	26410.8	100.0

Coefficient of Utilization

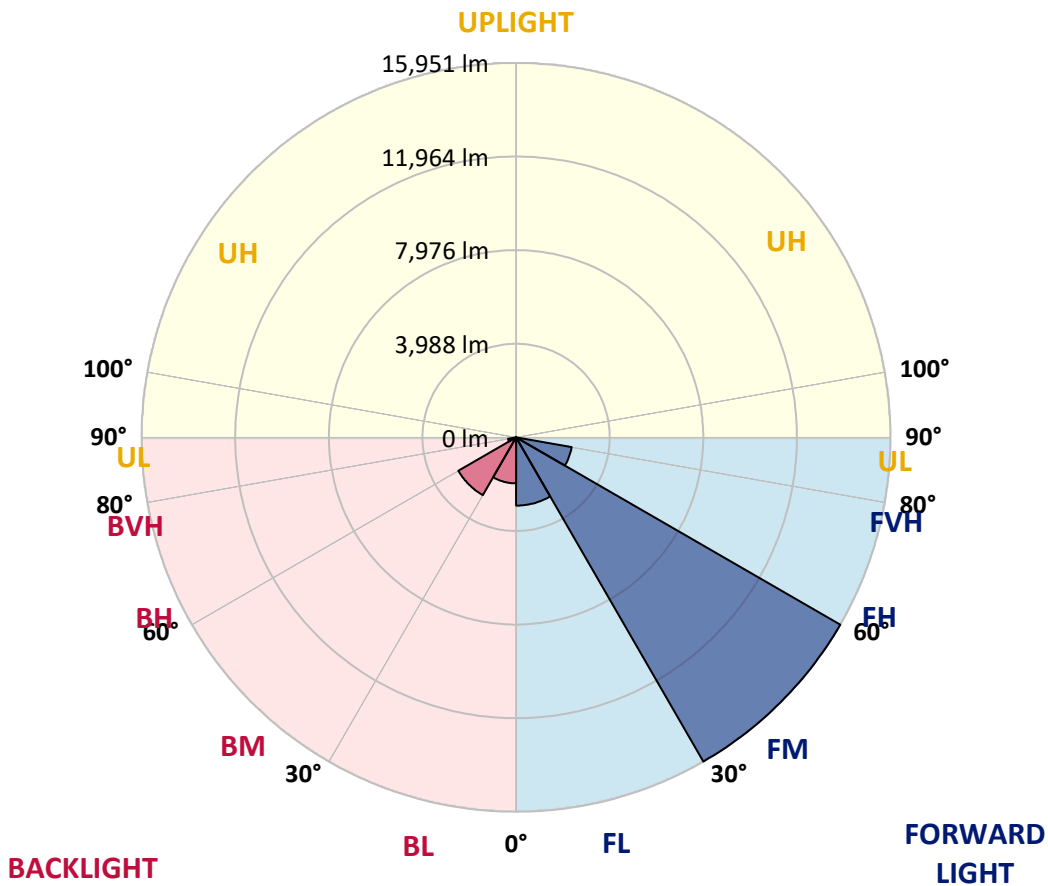


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2907.2	11.0			
FM (30°-60°)	15951.4	60.4			
FH (60°-80°)	2403.8	9.1			G2/5000
FVH (80°-90°)	2.8	0.0			G0/10
BL (0°-30°)	1960.4	7.4	B3/2500		
BM (30°-60°)	2840.2	10.8	B3/5000		
BH (60°-80°)	342.6	1.3	B1/500		G1/500
BVH (80°-90°)	2.5	0.0			G0/10
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°	38°	45°	55°	65°	75°	85°
0°	6333.5	6333.5	6333.5	6333.5	6333.5	6333.5	6333.5	6333.5	6333.5	6333.5	6333.5
2.5°	5898.8	5886.7	5910.9	5959.2	6004.5	6019.6	6064.8	6128.2	6167.5	6261.1	6336.5
5°	5633.1	5627.1	5651.3	5693.5	5753.9	5775.0	5844.5	5950.1	6055.8	6218.8	6378.8
7.5°	5391.6	5388.6	5424.8	5518.4	5606.0	5633.1	5717.7	5847.5	5989.4	6239.9	6475.4
10°	5074.7	5077.7	5147.1	5279.9	5439.9	5494.3	5630.1	5817.3	6001.4	6324.5	6650.5
12.5°	4972.0	4978.1	5014.3	5116.9	5292.0	5361.4	5551.6	5835.4	6070.9	6445.2	6876.9
15°	5222.6	5222.6	5192.4	5204.5	5283.0	5346.4	5545.6	5895.8	6188.6	6590.1	7100.3
17.5°	5708.6	5690.5	5615.0	5512.4	5485.2	5506.4	5666.3	6025.6	6354.6	6759.2	7353.9
20°	6366.7	6372.8	6224.8	6010.5	5838.4	5835.4	5932.0	6255.0	6593.1	6961.4	7628.6
22.5°	7163.7	7139.5	6943.3	6650.5	6351.6	6327.5	6366.7	6605.2	6937.3	7281.4	7966.7
25°	8087.5	8075.4	7797.6	7405.2	7009.7	6952.4	6952.4	7187.8	7429.3	7737.3	8371.2
27.5°	9053.5	9053.5	8784.8	8332.0	7806.7	7704.1	7689.0	7966.7	8126.7	8187.1	8712.4
30°	10046.7	10034.6	9768.9	9304.0	8742.5	8636.9	8594.6	8799.9	8914.6	8733.5	9138.0
32.5°	11055.0	11076.1	10807.4	10375.7	9874.6	9805.2	9675.4	9675.4	9768.9	9515.4	9808.2
35°	12138.7	12132.7	11921.4	11628.5	11199.9	11121.4	10907.0	10572.0	10713.8	10602.1	10735.0
37.5°	13095.7	13141.0	13038.3	12821.0	12473.8	12395.3	12042.1	11435.3	11544.0	11719.1	11836.8
40°	14067.8	14104.0	14206.6	14137.2	13699.5	13554.6	12926.6	11930.4	12051.2	12651.9	12990.0
42.5°	15021.7	15039.8	15248.1	15362.8	14777.2	14523.6	13596.8	12232.3	12359.1	13382.5	13974.2
45°	15628.5	15667.7	16011.9	16362.1	15728.1	15381.0	14179.5	12618.7	12673.1	13889.7	14701.7
47.5°	15604.3	15694.9	16340.9	16977.9	16546.2	16171.9	14879.8	13237.6	13147.0	14366.6	15181.7
50°	15118.3	15227.0	16153.8	17165.1	17134.9	16787.7	15658.7	14134.2	13850.4	14789.3	15242.1
52.5°	14110.0	14424.0	15824.7	17189.2	17608.9	17433.8	16621.7	15341.7	14801.3	15396.0	15338.7
55°	11930.4	12316.8	14825.5	16984.0	18037.5	18058.7	17633.0	16600.6	15833.8	16440.6	15933.4
57.5°	9056.5	9364.4	11411.2	15118.3	17328.1	17675.3	18025.5	17264.7	16470.8	17153.0	16072.3
60°	5458.1	5814.3	7145.6	11094.2	13995.3	14587.0	15960.6	15812.6	14855.7	15148.5	13180.2
62.5°	2212.8	2400.0	3299.6	6113.1	8809.0	9361.4	10677.6	10901.0	10665.5	10366.7	7993.9
65°	809.0	884.5	1322.2	2526.8	4051.3	4253.5	4947.9	5343.3	5669.4	4827.1	2973.6
67.5°	501.1	549.4	860.4	1298.1	1473.2	1370.6	1394.7	1663.4	1587.9	981.1	531.3
70°	371.3	410.6	673.2	899.6	594.7	458.9	310.9	332.1	298.9	262.6	259.6
72.5°	256.6	292.8	504.1	531.3	229.4	163.0	114.7	160.0	181.1	178.1	184.1
75°	169.1	196.2	317.0	208.3	57.4	45.3	39.2	84.5	108.7	108.7	111.7
77.5°	99.6	114.7	111.7	42.3	12.1	12.1	9.1	15.1	24.2	27.2	33.2
80°	12.1	9.1	6.0	6.0	6.0	6.0	6.0	6.0	9.1	9.1	9.1
82.5°	3.0	3.0	3.0	6.0	6.0	6.0	6.0	6.0	6.0	9.1	9.1
85°	0.0	0.0	3.0	3.0	6.0	6.0	6.0	6.0	6.0	9.1	9.1
87.5°	0.0	0.0	3.0	3.0	6.0	6.0	6.0	6.0	6.0	9.1	9.1
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°	6333.5	6333.5	6333.5	6333.5	6333.5	6333.5	6333.5	6333.5	6333.5	6333.5	6333.5
2.5°	6393.9	6372.8	6460.3	6523.7	6575.0	6599.2	6566.0	6562.9	6562.9	6496.5	6478.4
5°	6469.4	6478.4	6602.2	6656.5	6665.6	6635.4	6559.9	6508.6	6478.4	6409.0	6369.7
7.5°	6614.3	6644.5	6762.2	6753.1	6671.6	6532.8	6333.5	6179.6	6079.9	5971.3	5904.8
10°	6822.6	6879.9	6952.4	6825.6	6566.0	6212.8	5802.2	5509.4	5334.3	5210.5	5135.0
12.5°	7076.1	7133.5	7109.4	6810.5	6270.1	5639.2	5110.9	4688.2	4486.0	4374.3	4295.8
15°	7332.7	7369.0	7212.0	6629.4	5747.9	4899.6	4310.9	3891.3	3643.7	3553.2	3486.8
17.5°	7595.4	7586.3	7230.1	6273.1	5050.5	4066.4	3486.8	3200.0	3130.5	3115.4	3109.4
20°	7870.1	7788.6	7157.7	5763.0	4211.3	3242.2	2913.2	2931.3	3058.1	3118.5	3130.5
22.5°	8184.1	7978.8	6976.5	5071.6	3353.9	2701.9	2735.1	2913.2	3085.2	3166.8	3178.8
25°	8519.1	8153.9	6674.6	4184.1	2644.5	2484.5	2680.7	2886.0	3070.2	3169.8	3181.9
27.5°	8739.5	8196.1	6179.6	3290.5	2270.2	2400.0	2608.3	2804.5	2994.7	3103.4	3118.5
30°	8978.0	8178.0	5506.4	2535.8	2143.4	2327.5	2508.7	2686.8	2861.9	2982.6	2994.7
32.5°	9328.2	8165.9	4685.2	2058.8	2092.1	2270.2	2403.0	2550.9	2671.7	2741.1	2732.0
35°	9787.1	8150.8	3728.3	1856.6	2061.9	2224.9	2330.5	2400.0	2267.1	2224.9	2233.9
37.5°	10375.7	8187.1	2922.2	1772.1	2052.8	2212.8	2303.4	2104.1	1898.8	1820.4	1808.3
40°	11027.8	8280.7	2227.9	1738.8	2083.0	2243.0	2200.7	1871.7	1618.1	1464.1	1430.9
42.5°	11682.9	8383.3	1763.0	1726.8	2134.3	2327.5	2031.7	1702.6	1322.2	1234.7	1222.6
45°	12168.9	8365.2	1524.5	1705.6	2179.6	2375.8	1986.4	1461.1	1180.4	1141.1	1144.1
47.5°	12413.4	8165.9	1394.7	1657.3	2197.7	2327.5	1874.7	1361.5	1083.8	1126.0	1162.3
50°	12283.6	7649.7	1273.9	1563.8	2158.5	2264.1	1696.6	1286.0	1035.5	1210.6	1292.1
52.5°	12126.7	7015.8	1141.1	1418.9	2064.9	2176.6	1627.2	1264.9	1005.3	1168.3	1228.7
55°	12335.0	6614.3	923.8	1195.5	1880.7	1971.3	1572.8	1261.9	935.8	908.7	899.6
57.5°	12042.1	5814.3	661.1	860.4	1443.0	1560.7	1533.6	1240.7	830.2	827.2	839.2
60°	9307.1	3547.1	452.8	546.4	884.5	996.2	1391.7	1186.4	715.5	658.1	661.1
62.5°	5289.0	1509.4	310.9	338.1	452.8	537.4	1062.6	1077.7	661.1	627.9	661.1
65°	1841.5	540.4	241.5	226.4	250.6	286.8	609.8	833.2	600.7	543.4	549.4
67.5°	380.4	268.7	214.3	187.2	187.2	187.2	310.9	519.2	495.1	431.7	437.7
70°	241.5	229.4	187.2	160.0	154.0	141.9	178.1	286.8	341.1	314.0	317.0
72.5°	178.1	175.1	147.9	129.8	114.7	102.6	111.7	141.9	175.1	181.1	184.1
75°	108.7	111.7	96.6	81.5	72.5	63.4	66.4	66.4	66.4	60.4	66.4
77.5°	33.2	36.2	30.2	24.2	21.1	21.1	21.1	18.1	15.1	9.1	9.1
80°	9.1	9.1	9.1	9.1	9.1	6.0	6.0	3.0	3.0	0.0	0.0
82.5°	9.1	9.1	9.1	9.1	6.0	6.0	3.0	3.0	0.0	0.0	0.0
85°	9.1	9.1	9.1	9.1	6.0	6.0	3.0	3.0	0.0	0.0	0.0
87.5°	9.1	9.1	9.1	9.1	6.0	6.0	3.0	3.0	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)