

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: P641352

Luminaire Tested: GWS-SA5F-760-U-T2R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641352
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-12)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5F-760-U-T2R-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II 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: 28228.1 lumens
Efficiency: N/A
Efficacy: 91.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

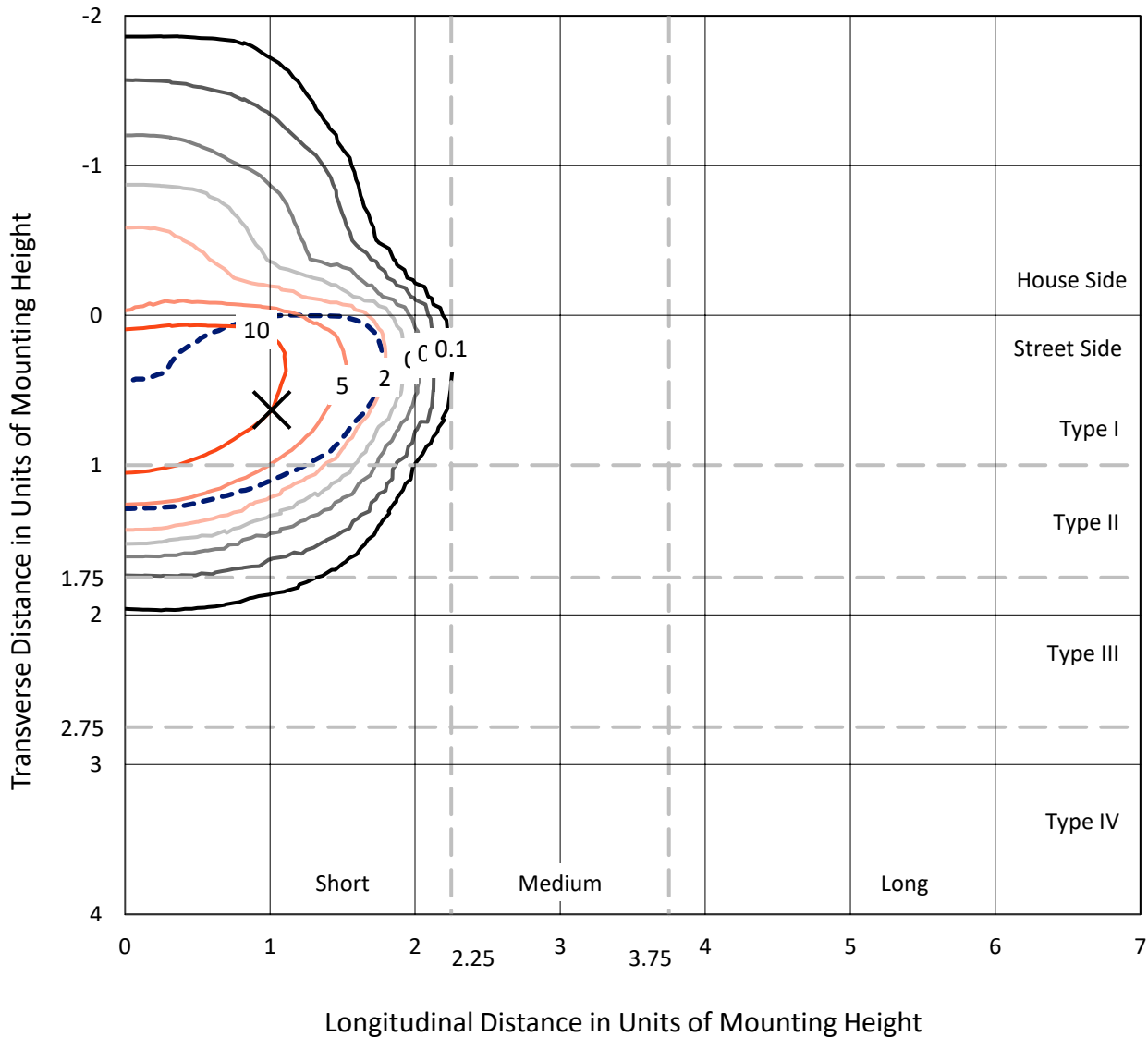
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P641352
 CATALOG NUMBER: GWS-SA5F-760-U-T2R-W-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

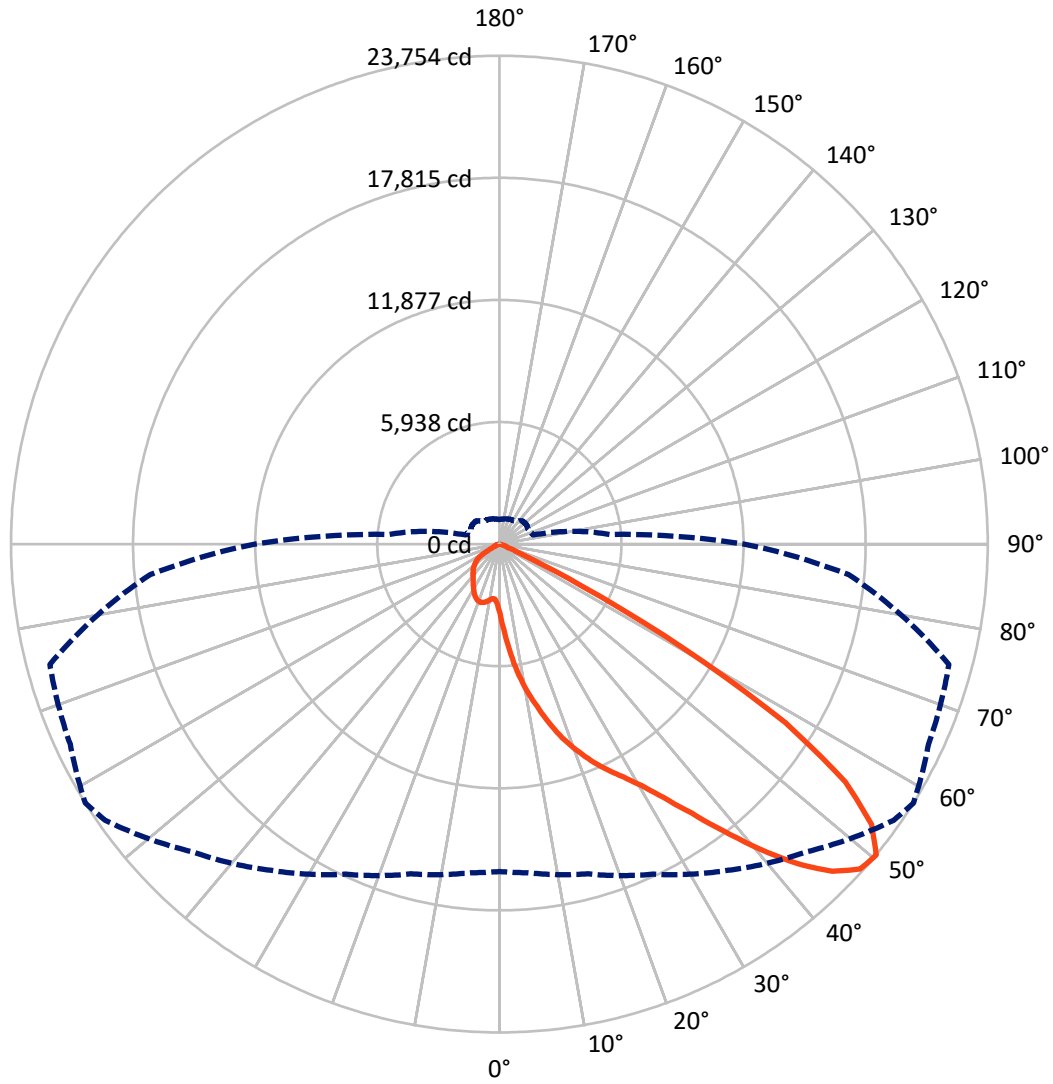
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.6 fc
 Type II - Short - N/A

REPORT NUMBER: P641352
CATALOG NUMBER: GWS-SA5F-760-U-T2R-W-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

REPORT NUMBER: P641352

CATALOG NUMBER: GWS-SA5F-760-U-T2R-W-GRSBK

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3953.7	0.0	3953.7
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	24274.4	0.0	24274.4
	% Fixture	86.0	0.0	86.0
Total	Lumens	28228.1	0.0	28228.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	417.7	1.5
10°-20°	1653.6	5.9
20°-30°	3346.1	11.9
30°-40°	5919.7	21.0
40°-50°	8629.6	30.6
50°-60°	6916.9	24.5
60°-70°	1246.1	4.4
70°-80°	98.2	0.3
80°-90°	0.1	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°	28228.1	100.0
0°-180°	28228.1	100.0

Coefficient of Utilization



REPORT NUMBER: P641352

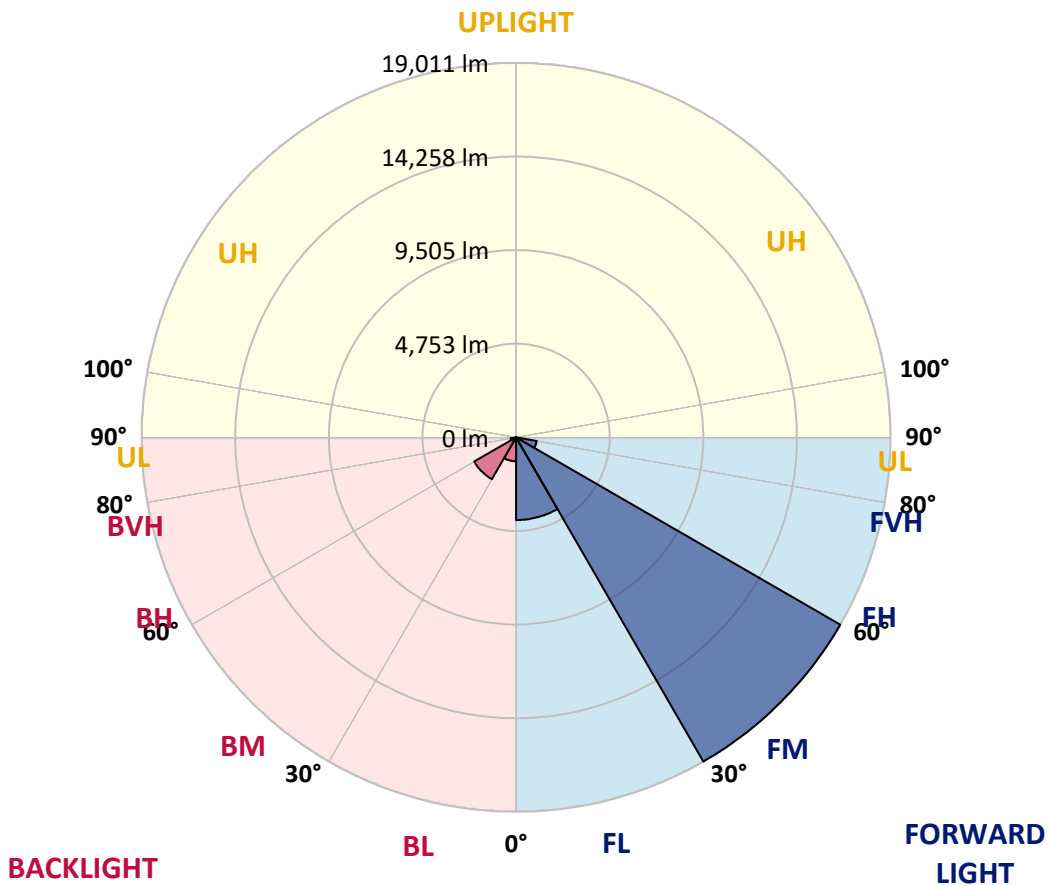
CATALOG NUMBER: GWS-SA5F-760-U-T2R-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4200.3	14.9			
FM (30°-60°)	19010.8	67.3			
FH (60°-80°)	1063.3	3.8			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	1217.2	4.3	B3/2500		
BM (30°-60°)	2455.5	8.7	B2/2500		
BH (60°-80°)	281.0	1.0	B1/500		G1/500
BVH (80°-90°)	0.1	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-G1

Type II Short





REPORT NUMBER: P641352

CATALOG NUMBER: GWS-SA5F-760-U-T2R-W-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3371.8	3371.8	3371.8	3371.8	3371.8	3371.8	3371.8	3371.8	3371.8	3371.8	3371.8
2.5°	4989.8	4911.3	4866.0	4829.8	4669.8	4416.2	4250.2	4162.7	4017.8	3773.3	3562.0
5°	6511.2	6453.8	6348.2	6275.7	6070.4	5711.2	5339.9	5192.0	4863.0	4310.6	3815.5
7.5°	7519.4	7477.1	7437.9	7341.3	7148.1	6822.1	6411.5	6257.6	5750.5	4965.6	4153.6
10°	8295.2	8262.0	8216.7	8213.7	8062.7	7769.9	7368.5	7208.5	6659.1	5678.0	4552.1
12.5°	8977.4	8950.2	8941.2	9025.7	8929.1	8711.7	8277.1	8077.8	7495.2	6405.5	4992.8
15°	9445.3	9439.2	9478.5	9644.5	9698.8	9599.2	9234.0	9019.6	8349.5	7136.0	5478.8
17.5°	9659.6	9677.7	9753.2	10039.9	10281.4	10365.9	10085.2	9904.1	9197.7	7875.6	5998.0
20°	10024.8	10018.8	10064.1	10335.8	10631.6	10933.4	10848.9	10695.0	10055.0	8657.4	6574.6
22.5°	11054.2	10966.6	10870.0	10912.3	11018.0	11371.1	11528.1	11449.6	10939.5	9460.4	7169.2
25°	12635.9	12545.4	12234.5	11932.6	11733.4	11893.4	12107.7	12146.9	11817.9	10284.4	7791.1
27.5°	14314.3	14232.8	13882.6	13429.8	12859.3	12581.6	12741.6	12820.1	12681.2	11265.5	8452.1
30°	15887.0	15778.3	15395.0	14833.5	14172.4	13746.8	13565.7	13620.0	13701.5	12427.7	9227.9
32.5°	17251.4	17169.9	16711.1	16119.4	15482.5	15038.8	14616.2	14706.7	14905.9	13849.4	10221.0
35°	18407.5	18365.3	17879.3	17290.7	16617.5	16391.1	16028.9	16047.0	16246.2	15567.0	11431.5
37.5°	19412.7	19340.3	18899.6	18353.2	17818.9	17782.7	17683.1	17692.1	17794.8	17568.4	12823.1
40°	20046.7	19980.2	19666.3	19328.2	18947.9	18953.9	19470.1	19509.3	19391.6	19533.5	14293.2
42.5°	20285.1	20236.8	20067.8	20070.8	20031.6	20209.7	21178.6	21251.1	20828.5	21076.0	15548.9
45°	19871.6	19850.4	19862.5	20297.2	20768.1	21317.5	22576.3	22703.0	22105.4	22099.3	16530.0
47.5°	18537.3	18495.1	18848.3	19587.8	20677.5	21746.1	23421.5	23617.7	22998.9	22684.9	17145.8
50°	15923.2	16044.0	16602.4	17713.3	19370.5	21157.5	23412.4	23753.5	23032.1	22633.6	17043.1
52.5°	11534.1	11510.0	12732.5	14260.0	16276.4	19273.9	22168.7	22666.8	22226.1	22129.5	16813.7
55°	6275.7	6496.1	7320.2	9342.6	11860.2	15708.9	19328.2	20414.9	20925.1	21945.4	17227.3
57.5°	2306.2	2402.8	2919.0	4349.8	6278.7	9768.3	14764.1	16403.2	17978.9	21432.2	17157.8
60°	929.7	947.8	1153.1	1599.9	2638.3	4971.7	8856.6	10311.6	11796.8	16406.2	13167.2
62.5°	676.2	700.3	781.8	935.8	1334.2	2173.4	3818.6	4440.4	4853.9	8126.1	6487.0
65°	546.4	564.5	630.9	700.3	881.4	1168.2	1231.6	1186.3	1180.3	2101.0	1488.2
67.5°	452.8	470.9	519.2	567.5	633.9	582.6	422.6	443.7	362.2	359.2	292.8
70°	332.0	353.2	401.5	452.8	380.3	157.0	244.5	362.2	274.7	229.4	223.4
72.5°	250.5	265.6	310.9	295.8	111.7	60.4	163.0	262.6	211.3	169.0	166.0
75°	187.2	196.2	157.0	48.3	12.1	15.1	60.4	108.7	117.7	96.6	96.6
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	6.0	9.1	12.1	15.1	18.1
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	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



REPORT NUMBER: P641352

CATALOG NUMBER: GWS-SA5F-760-U-T2R-W-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3371.8	3371.8	3371.8	3371.8	3371.8	3371.8	3371.8	3371.8	3371.8	3371.8	3371.8
2.5°	3441.2	3314.4	3133.3	2982.4	2867.7	2756.0	2671.5	2587.0	2583.9	2541.7	2532.6
5°	3586.1	3356.7	3024.7	2786.2	2641.3	2553.8	2493.4	2463.2	2448.1	2433.0	2427.0
7.5°	3794.4	3465.4	3006.5	2753.0	2632.2	2574.9	2532.6	2514.5	2505.5	2493.4	2490.4
10°	4051.0	3622.3	3073.0	2816.4	2710.7	2656.4	2611.1	2583.9	2568.8	2547.7	2541.7
12.5°	4358.9	3815.5	3178.6	2922.0	2810.3	2737.9	2677.5	2638.3	2617.1	2590.0	2583.9
15°	4690.9	4023.8	3296.3	3018.6	2885.8	2792.2	2716.8	2656.4	2617.1	2583.9	2574.9
17.5°	5035.1	4235.1	3402.0	3085.0	2922.0	2810.3	2701.7	2620.2	2571.9	2529.6	2517.5
20°	5421.4	4452.5	3471.4	3097.1	2909.9	2762.0	2635.3	2532.6	2484.3	2427.0	2414.9
22.5°	5825.9	4654.7	3501.6	3069.9	2843.5	2671.5	2535.6	2430.0	2360.6	2300.2	2282.1
25°	6218.4	4835.8	3486.5	2994.5	2743.9	2544.7	2405.8	2297.2	2221.7	2161.3	2146.2
27.5°	6634.9	4986.8	3432.2	2882.8	2608.1	2405.8	2273.0	2179.4	2110.0	2043.6	2028.5
30°	7102.8	5125.6	3344.6	2746.9	2448.1	2264.0	2161.3	2097.9	2022.5	1953.0	1931.9
32.5°	7667.3	5249.4	3217.8	2583.9	2306.2	2140.2	2082.8	2034.5	1947.0	1874.6	1859.5
35°	8313.3	5352.0	3057.9	2414.9	2167.4	2061.7	2049.6	1986.3	1871.5	1787.0	1768.9
37.5°	9061.9	5451.6	2867.7	2248.9	2064.7	2025.5	2028.5	1919.8	1781.0	1678.4	1666.3
40°	9867.9	5551.2	2656.4	2104.0	1971.2	2004.4	1977.2	1823.2	1596.8	1497.2	1485.2
42.5°	10707.0	5659.9	2442.1	1968.1	1892.7	1922.9	1883.6	1630.1	1467.0	1415.7	1409.7
45°	11464.7	5789.7	2209.6	1832.3	1814.2	1805.1	1738.7	1476.1	1406.7	1370.5	1367.4
47.5°	12011.1	5768.6	1962.1	1702.5	1729.7	1699.5	1497.2	1403.7	1346.3	1298.0	1285.9
50°	11911.5	5400.3	1705.5	1557.6	1621.0	1593.8	1346.3	1319.1	1267.8	1216.5	1198.4
52.5°	11657.9	4899.2	1482.1	1403.7	1503.3	1439.9	1243.7	1216.5	1171.2	1104.8	1083.7
55°	11793.7	4428.3	1307.1	1279.9	1382.5	1192.4	1129.0	1086.7	1038.4	966.0	956.9
57.5°	11356.0	3613.3	1050.5	1068.6	1222.5	1017.3	990.1	923.7	842.2	793.9	787.9
60°	7860.5	1941.0	658.1	679.2	884.5	854.3	887.5	827.1	727.5	682.2	673.2
62.5°	3610.3	778.8	359.2	344.1	464.9	579.6	760.7	754.7	630.9	558.4	552.4
65°	875.4	356.2	256.6	241.5	262.6	347.1	495.1	594.7	510.1	425.6	416.6
67.5°	283.8	289.8	235.5	220.4	232.4	259.6	295.8	329.0	326.0	298.8	292.8
70°	226.4	262.6	217.3	199.2	199.2	208.3	199.2	160.0	138.9	150.9	157.0
72.5°	169.0	199.2	172.1	153.9	147.9	144.9	123.8	90.6	63.4	57.4	54.3
75°	99.6	111.7	105.7	90.6	84.5	75.5	60.4	39.2	21.1	15.1	9.1
77.5°	18.1	21.1	24.1	18.1	15.1	12.1	9.1	3.0	0.0	0.0	0.0
80°	0.0	3.0	3.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	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)