

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: P643285

Luminaire Tested: GWS-SA6E-750-U-T3R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643285
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-SAGE-750-U-T3R-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (96) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28719.3 lumens
Efficiency: N/A
Efficacy: 88.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

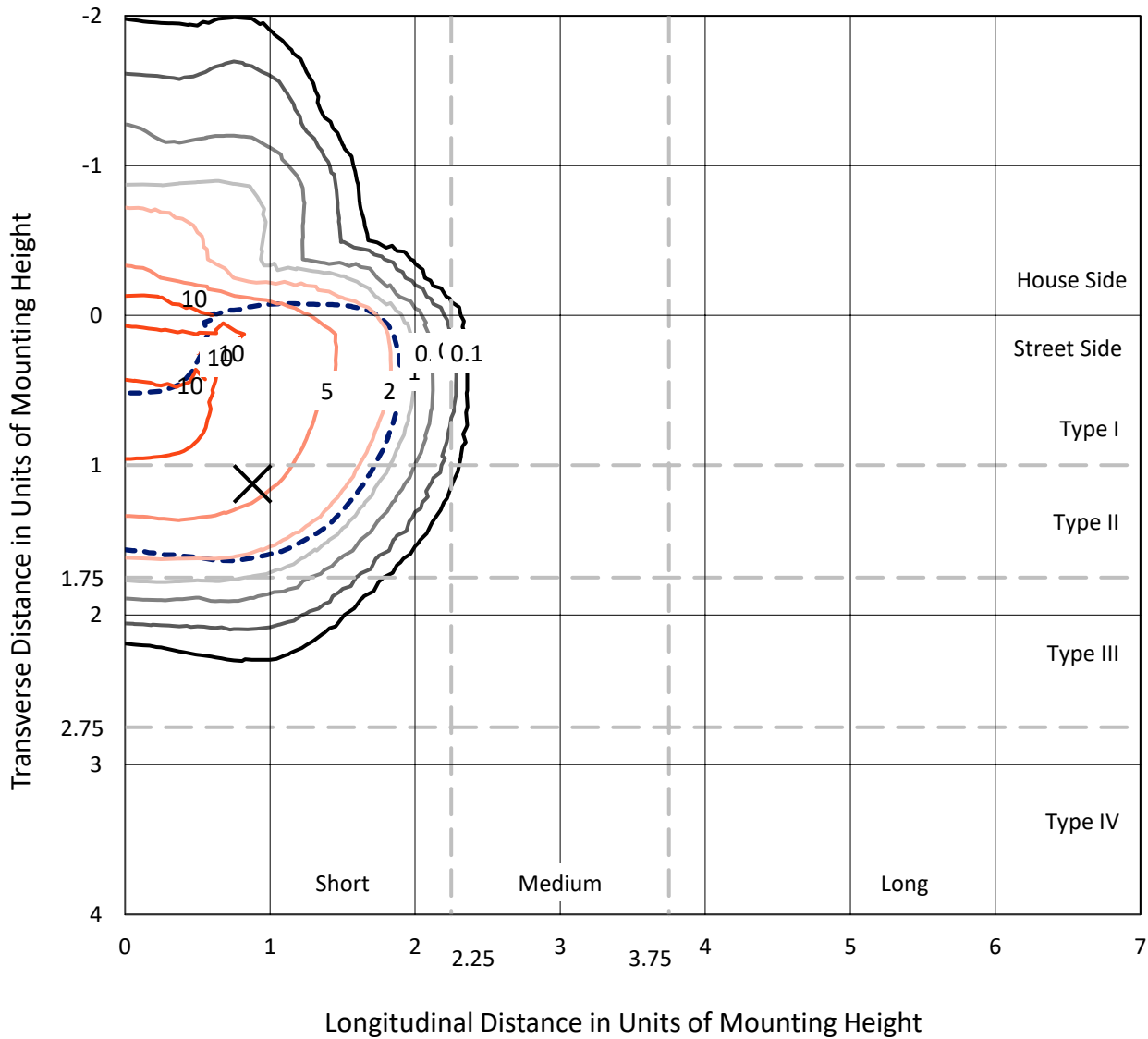
Input Watts (W): 323.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

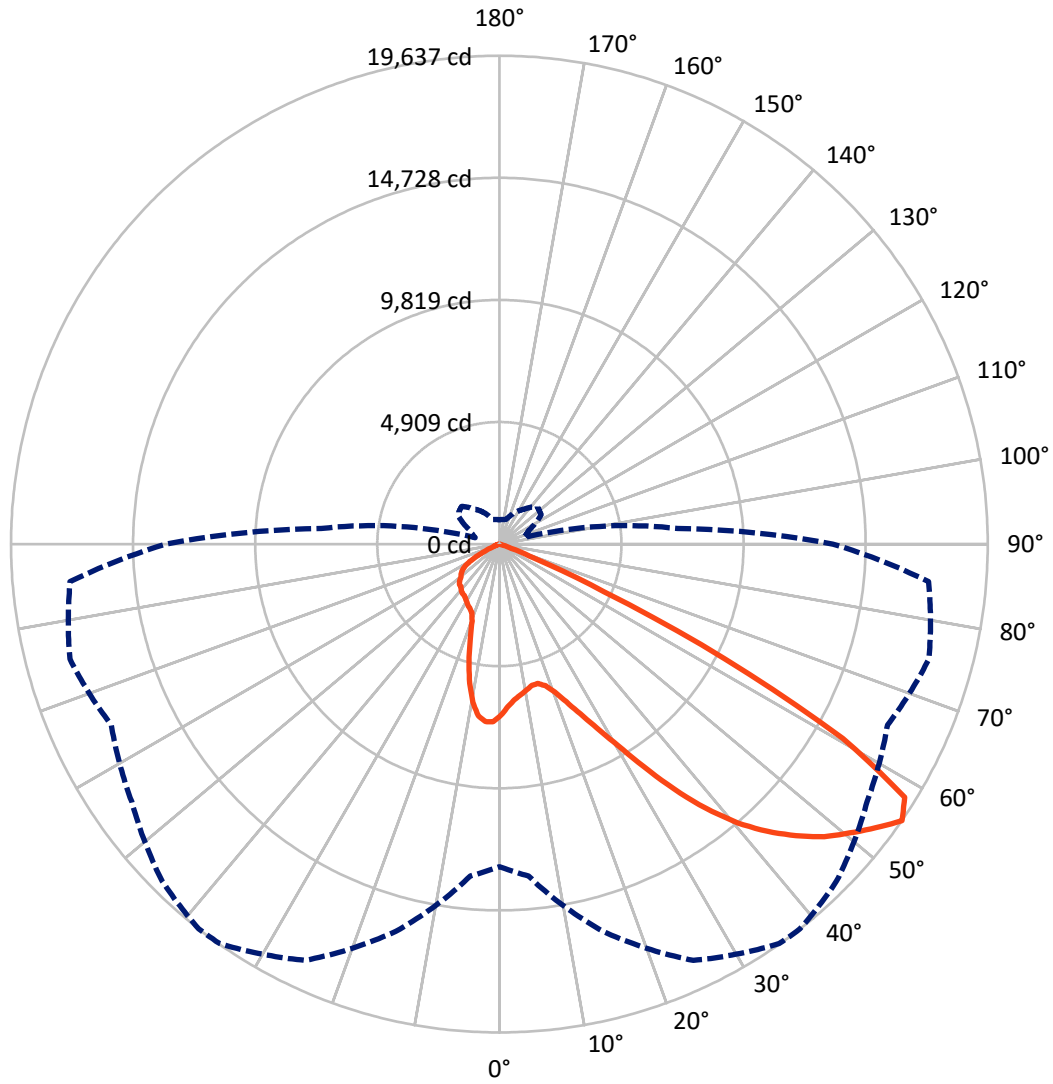
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.5 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	5595.4	0.0	5595.4
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	23123.9	0.0	23123.9
	% Fixture	80.5	0.0	80.5
Total	Lumens	28719.3	0.0	28719.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	636.8	2.2
10°-20°	1714.4	6.0
20°-30°	2941.9	10.2
30°-40°	4879.4	17.0
40°-50°	7172.9	25.0
50°-60°	8381.8	29.2
60°-70°	2841.2	9.9
70°-80°	145.3	0.5
80°-90°	5.7	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°	28719.3	100.0
0°-180°	28719.3	100.0

Coefficient of Utilization



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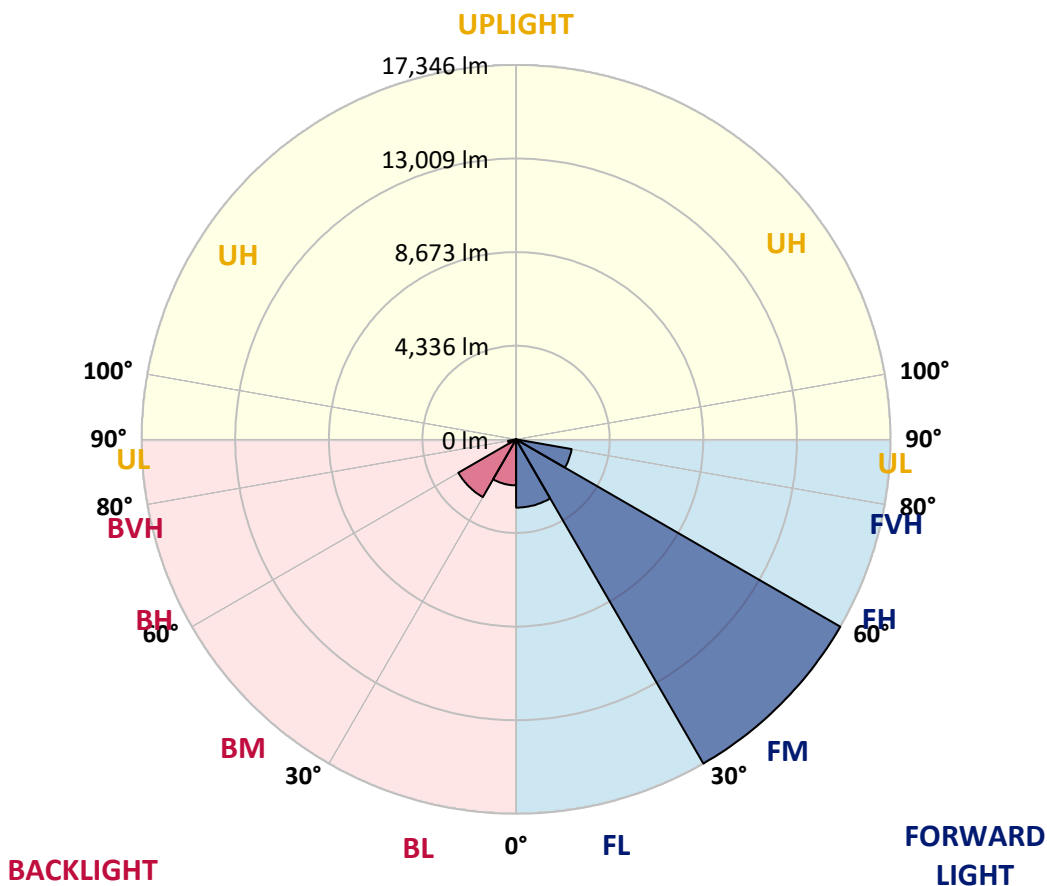
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3161.3	11.0			
FM (30°-60°)	17345.6	60.4			
FH (60°-80°)	2613.9	9.1			G2/5000
FVH (80°-90°)	3.0	0.0			G0/10
BL (0°-30°)	2131.8	7.4	B3/2500		
BM (30°-60°)	3088.4	10.8	B3/5000		
BH (60°-80°)	372.5	1.3	B1/500		G1/500
BVH (80°-90°)	2.7	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°	6887.1	6887.1	6887.1	6887.1	6887.1	6887.1	6887.1	6887.1	6887.1	6887.1	6887.1
2.5°	6414.4	6401.3	6427.5	6480.1	6529.3	6545.7	6594.9	6663.9	6706.6	6808.3	6890.4
5°	6125.5	6119.0	6145.2	6191.2	6256.8	6279.8	6355.3	6470.2	6585.1	6762.4	6936.3
7.5°	5862.9	5859.6	5899.0	6000.8	6096.0	6125.5	6217.4	6358.6	6512.9	6785.3	7041.4
10°	5518.2	5521.5	5597.0	5741.4	5915.4	5974.5	6122.2	6325.8	6526.0	6877.3	7231.8
12.5°	5406.6	5413.2	5452.6	5564.2	5754.6	5830.1	6036.9	6345.5	6601.5	7008.6	7478.0
15°	5679.1	5679.1	5646.2	5659.4	5744.7	5813.7	6030.3	6411.1	6729.5	7166.1	7720.9
17.5°	6207.6	6187.9	6105.8	5994.2	5964.7	5987.6	6161.6	6552.3	6910.1	7350.0	7996.7
20°	6923.2	6929.8	6768.9	6535.9	6348.7	6345.5	6450.5	6801.8	7169.4	7569.9	8295.4
22.5°	7789.9	7763.6	7550.2	7231.8	6906.8	6880.5	6923.2	7182.6	7543.6	7917.9	8663.0
25°	8794.4	8781.2	8479.2	8052.5	7622.4	7560.1	7560.1	7816.1	8078.7	8413.6	9102.9
27.5°	9844.8	9844.8	9552.7	9060.3	8489.1	8377.5	8361.0	8663.0	8837.0	8902.7	9473.9
30°	10924.8	10911.7	10622.8	10117.3	9506.7	9391.8	9345.9	9569.1	9693.8	9496.9	9936.7
32.5°	12021.3	12044.2	11752.1	11282.6	10737.7	10662.2	10521.1	10521.1	10622.8	10347.1	10665.5
35°	13199.7	13193.2	12963.4	12645.0	12178.8	12093.5	11860.4	11496.0	11650.3	11528.8	11673.3
37.5°	14240.4	14289.6	14178.0	13941.6	13564.1	13478.8	13094.7	12434.9	12553.1	12743.4	12871.5
40°	15297.4	15336.8	15448.4	15372.9	14896.9	14739.3	14056.5	12973.2	13104.5	13757.8	14125.5
42.5°	16334.7	16354.4	16580.9	16705.7	16068.8	15793.1	14785.3	13301.5	13439.4	14552.2	15195.6
45°	16994.5	17037.2	17411.4	17792.2	17102.9	16725.4	15418.8	13721.7	13780.8	15103.7	15986.8
47.5°	16968.3	17066.8	17769.3	18461.9	17992.5	17585.4	16180.4	14394.6	14296.2	15622.4	16508.7
50°	16439.8	16557.9	17565.7	18665.4	18632.6	18255.1	17027.4	15369.6	15061.0	16082.0	16574.4
52.5°	15343.3	15684.7	17207.9	18691.7	19148.0	18957.6	18074.6	16682.7	16095.1	16741.8	16679.4
55°	12973.2	13393.4	16121.3	18468.5	19614.1	19637.1	19174.3	18051.6	17217.8	17877.6	17326.1
57.5°	9848.1	10182.9	12408.6	16439.8	18842.7	19220.2	19601.0	18773.8	17910.4	18652.3	17477.1
60°	5935.1	6322.5	7770.2	12063.9	15218.6	15862.0	17355.6	17194.8	16154.2	16472.6	14332.3
62.5°	2406.2	2609.7	3588.0	6647.5	9578.9	10179.7	11610.9	11853.8	11597.8	11272.8	8692.6
65°	879.8	961.8	1437.8	2747.6	4405.4	4625.3	5380.3	5810.4	6164.9	5249.0	3233.5
67.5°	544.9	597.5	935.6	1411.6	1602.0	1490.3	1516.6	1808.8	1726.7	1066.9	577.8
70°	403.8	446.4	732.0	978.2	646.7	499.0	338.1	361.1	325.0	285.6	282.3
72.5°	279.0	318.4	548.2	577.8	249.5	177.3	124.7	174.0	197.0	193.7	200.2
75°	183.8	213.4	344.7	226.5	62.4	49.2	42.7	91.9	118.2	118.2	121.5
77.5°	108.3	124.7	121.5	46.0	13.1	13.1	9.8	16.4	26.3	29.5	36.1
80°	13.1	9.8	6.6	6.6	6.6	6.6	6.6	6.6	9.8	9.8	9.8
82.5°	3.3	3.3	3.3	6.6	6.6	6.6	6.6	6.6	6.6	9.8	9.8
85°	0.0	0.0	3.3	3.3	6.6	6.6	6.6	6.6	6.6	9.8	9.8
87.5°	0.0	0.0	3.3	3.3	6.6	6.6	6.6	6.6	6.6	9.8	9.8
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°	6887.1	6887.1	6887.1	6887.1	6887.1	6887.1	6887.1	6887.1	6887.1	6887.1	6887.1
2.5°	6952.8	6929.8	7025.0	7093.9	7149.7	7176.0	7139.9	7136.6	7136.6	7064.4	7044.7
5°	7034.8	7044.7	7179.3	7238.4	7248.2	7215.4	7133.3	7077.5	7044.7	6969.2	6926.5
7.5°	7192.4	7225.2	7353.3	7343.4	7254.8	7103.8	6887.1	6719.7	6611.4	6493.2	6421.0
10°	7418.9	7481.3	7560.1	7422.2	7139.9	6755.8	6309.4	5990.9	5800.5	5665.9	5583.9
12.5°	7694.7	7757.0	7730.8	7405.8	6818.2	6132.1	5557.6	5098.0	4878.1	4756.6	4671.3
15°	7973.7	8013.1	7842.4	7208.8	6250.3	5327.8	4687.7	4231.4	3962.2	3863.7	3791.5
17.5°	8259.3	8249.4	7862.1	6821.5	5492.0	4421.8	3791.5	3479.7	3404.2	3387.7	3381.2
20°	8558.0	8469.4	7783.3	6266.7	4579.4	3525.6	3167.8	3187.5	3325.4	3391.0	3404.2
22.5°	8899.4	8676.2	7586.3	5514.9	3647.1	2938.0	2974.1	3167.8	3354.9	3443.6	3456.7
25°	9263.8	8866.6	7258.1	4549.8	2875.6	2701.7	2915.0	3138.3	3338.5	3446.8	3460.0
27.5°	9503.4	8912.5	6719.7	3578.1	2468.6	2609.7	2836.3	3049.6	3256.4	3374.6	3391.0
30°	9762.8	8892.8	5987.6	2757.5	2330.7	2531.0	2727.9	2921.6	3112.0	3243.3	3256.4
32.5°	10143.5	8879.7	5094.8	2238.8	2274.9	2468.6	2613.0	2773.9	2905.2	2980.7	2970.8
35°	10642.5	8863.3	4054.1	2018.9	2242.1	2419.4	2534.2	2609.7	2465.3	2419.4	2429.2
37.5°	11282.6	8902.7	3177.7	1926.9	2232.2	2406.2	2504.7	2288.0	2064.8	1979.5	1966.3
40°	11991.7	9004.5	2422.6	1890.8	2265.1	2439.0	2393.1	2035.3	1759.5	1592.1	1556.0
42.5°	12704.1	9116.1	1917.1	1877.7	2320.9	2531.0	2209.3	1851.4	1437.8	1342.6	1329.5
45°	13232.6	9096.4	1657.8	1854.7	2370.1	2583.5	2160.0	1588.8	1283.5	1240.9	1244.1
47.5°	13498.5	8879.7	1516.6	1802.2	2389.8	2531.0	2038.6	1480.5	1178.5	1224.4	1263.8
50°	13357.3	8318.4	1385.3	1700.4	2347.1	2462.0	1844.9	1398.4	1126.0	1316.4	1405.0
52.5°	13186.6	7629.0	1240.9	1542.9	2245.4	2366.8	1769.4	1375.5	1093.1	1270.4	1336.1
55°	13413.1	7192.4	1004.5	1299.9	2045.1	2143.6	1710.3	1372.2	1017.6	988.1	978.2
57.5°	13094.7	6322.5	718.9	935.6	1569.1	1697.2	1667.6	1349.2	902.7	899.5	912.6
60°	10120.6	3857.2	492.4	594.2	961.8	1083.3	1513.3	1290.1	778.0	715.6	718.9
62.5°	5751.3	1641.4	338.1	367.7	492.4	584.3	1155.5	1171.9	718.9	682.8	718.9
65°	2002.4	587.6	262.6	246.2	272.5	311.9	663.1	906.0	653.3	590.9	597.5
67.5°	413.6	292.2	233.1	203.5	203.5	203.5	338.1	564.6	538.4	469.4	476.0
70°	262.6	249.5	203.5	174.0	167.4	154.3	193.7	311.9	370.9	341.4	344.7
72.5°	193.7	190.4	160.9	141.2	124.7	111.6	121.5	154.3	190.4	197.0	200.2
75°	118.2	121.5	105.0	88.6	78.8	68.9	72.2	72.2	72.2	65.7	72.2
77.5°	36.1	39.4	32.8	26.3	23.0	23.0	23.0	19.7	16.4	9.8	9.8
80°	9.8	9.8	9.8	9.8	9.8	6.6	6.6	3.3	3.3	0.0	0.0
82.5°	9.8	9.8	9.8	9.8	6.6	6.6	3.3	3.3	0.0	0.0	0.0
85°	9.8	9.8	9.8	9.8	6.6	6.6	3.3	3.3	0.0	0.0	0.0
87.5°	9.8	9.8	9.8	9.8	6.6	6.6	3.3	3.3	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)