

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: P642735

Luminaire Tested: GWS-SA6D-740-U-T3R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P642735
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-SA6D-740-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) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22467 lumens
Efficiency: N/A
Efficacy: 91.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

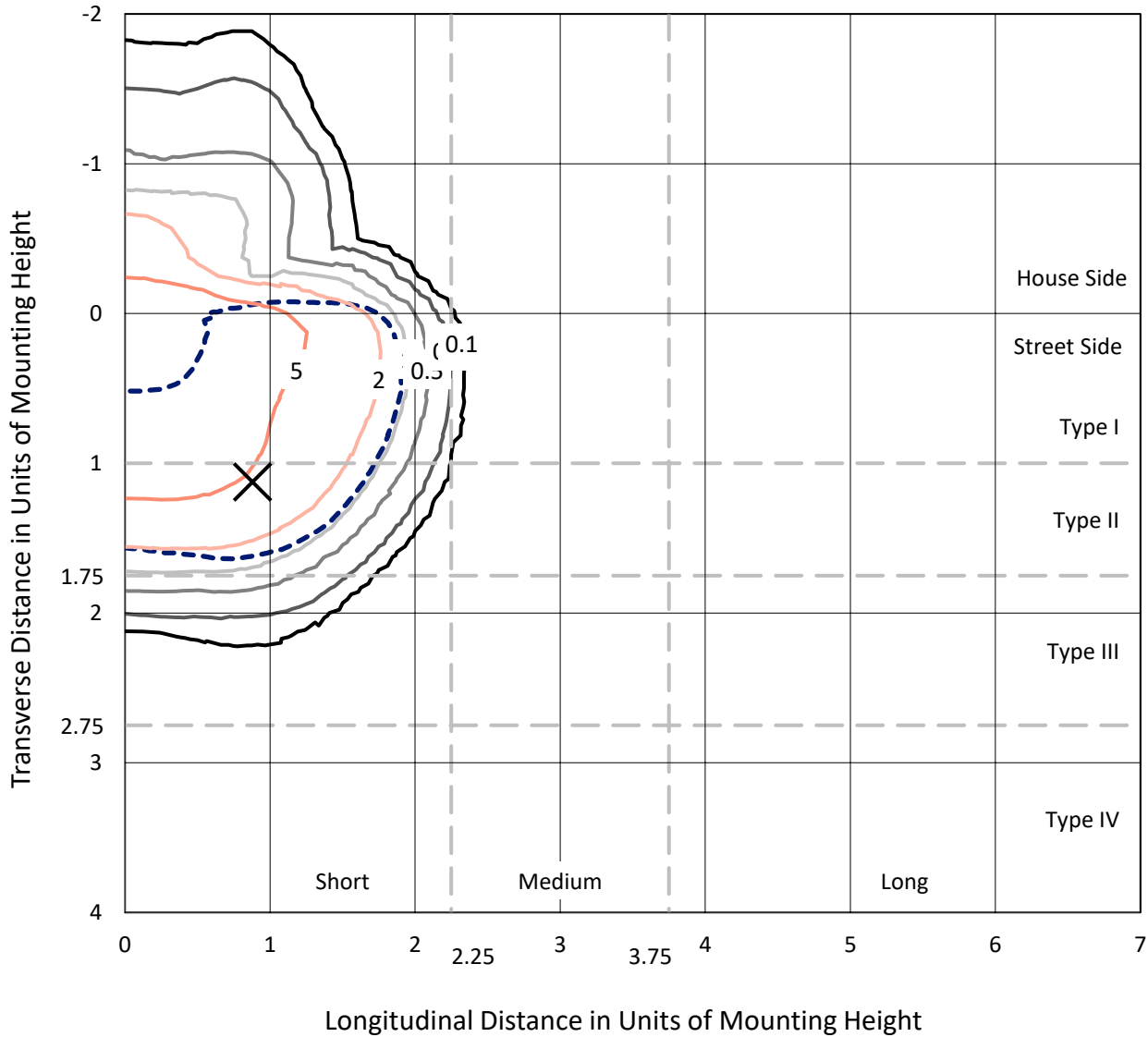
Input Watts (W): 245.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

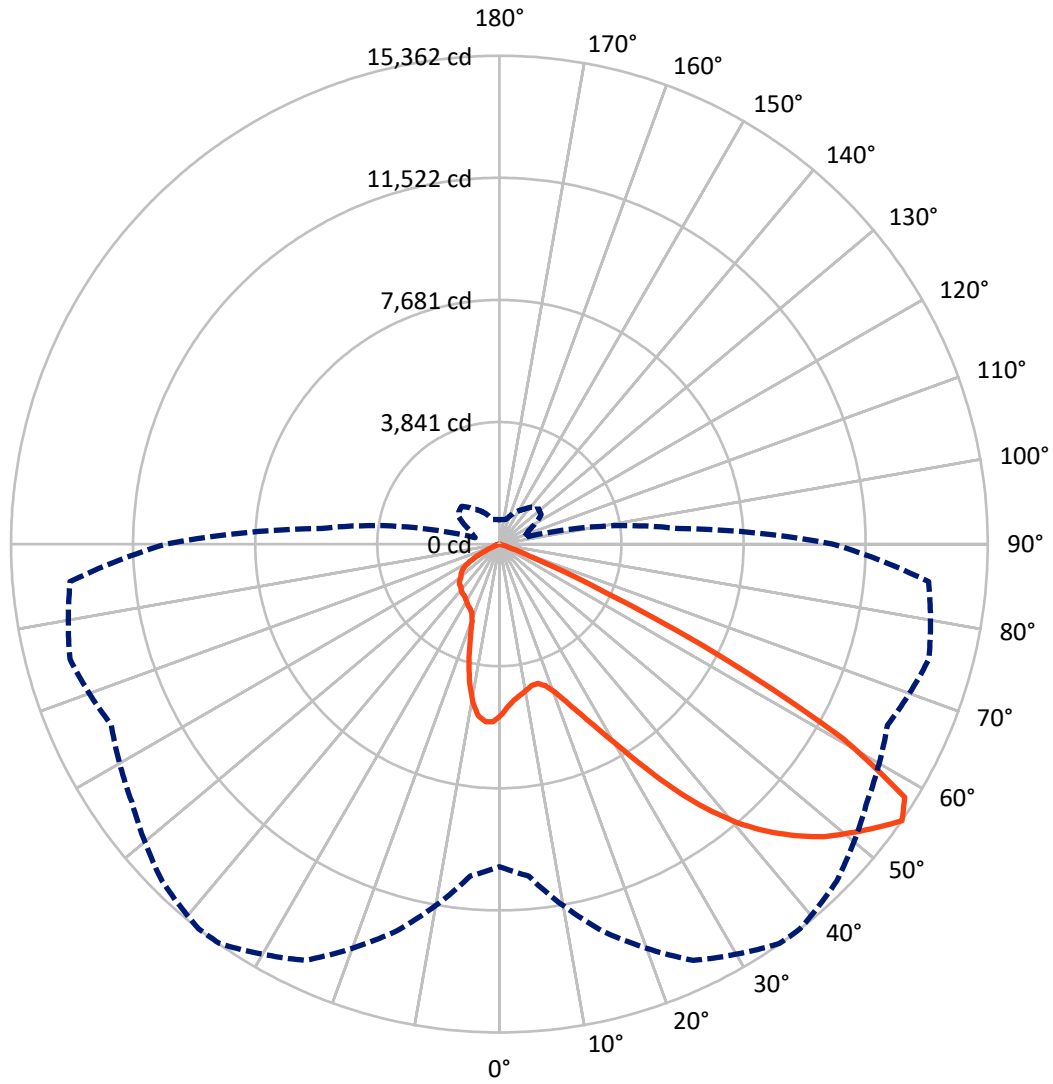
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 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	4377.3	0.0	4377.3
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	18089.7	0.0	18089.7
	% Fixture	80.5	0.0	80.5
Total	Lumens	22467.0	0.0	22467.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	498.2	2.2
10°-20°	1341.1	6.0
20°-30°	2301.5	10.2
30°-40°	3817.1	17.0
40°-50°	5611.4	25.0
50°-60°	6557.0	29.2
60°-70°	2222.6	9.9
70°-80°	113.6	0.5
80°-90°	4.5	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°	22467.0	100.0
0°-180°	22467.0	100.0

Coefficient of Utilization



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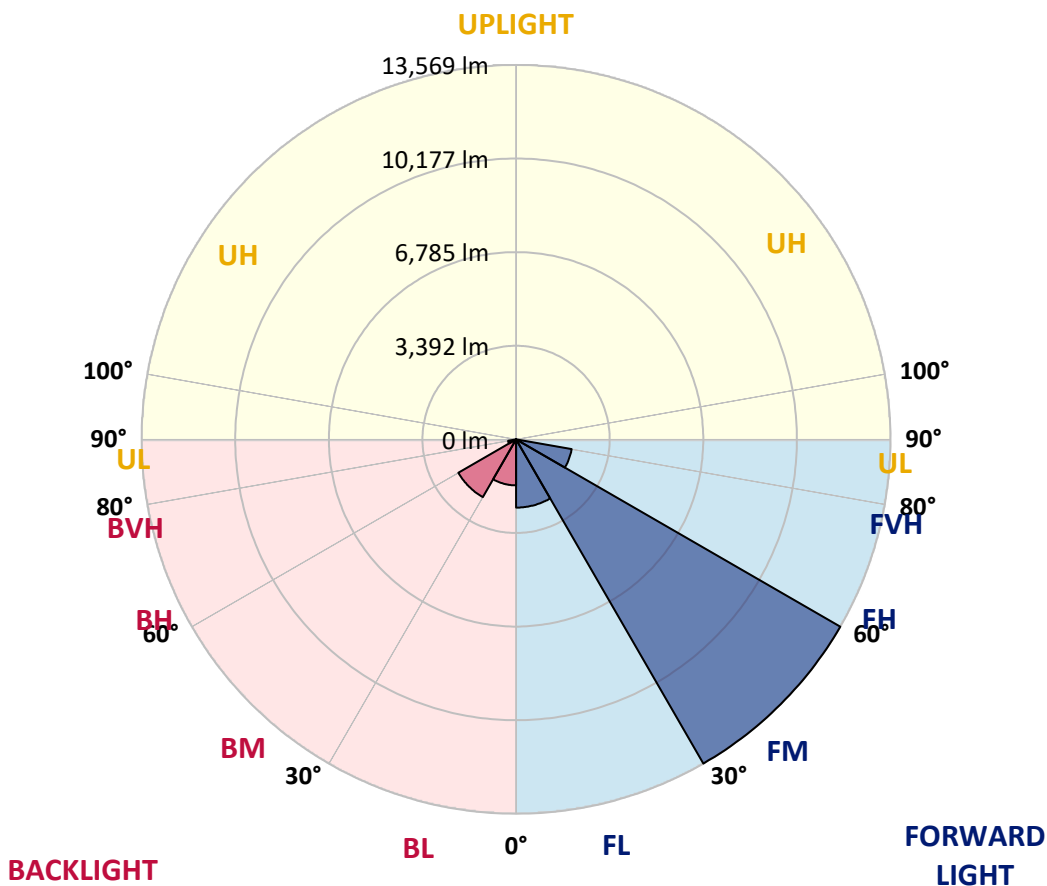
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2473.1	11.0			
FM (30°-60°)	13569.4	60.4			
FH (60°-80°)	2044.8	9.1			G2/5000
FVH (80°-90°)	2.4	0.0			G0/10
BL (0°-30°)	1667.7	7.4	B3/2500		
BM (30°-60°)	2416.1	10.8	B2/2500		
BH (60°-80°)	291.4	1.3	B1/500		G1/500
BVH (80°-90°)	2.1	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	5387.8	5387.8	5387.8	5387.8	5387.8	5387.8	5387.8	5387.8	5387.8	5387.8	5387.8
2.5°	5018.0	5007.7	5028.2	5069.3	5107.8	5120.7	5159.2	5213.1	5246.5	5326.1	5390.3
5°	4792.0	4786.8	4807.4	4843.3	4894.7	4912.7	4971.7	5061.6	5151.5	5290.2	5426.3
7.5°	4586.5	4584.0	4614.8	4694.4	4768.9	4792.0	4863.9	4974.3	5095.0	5308.1	5508.5
10°	4316.9	4319.5	4378.5	4491.5	4627.6	4673.8	4789.4	4948.6	5105.3	5380.1	5657.4
12.5°	4229.6	4234.7	4265.5	4352.8	4501.8	4560.8	4722.6	4964.0	5164.3	5482.8	5850.0
15°	4442.7	4442.7	4417.0	4427.3	4494.1	4548.0	4717.5	5015.4	5264.5	5606.0	6040.0
17.5°	4856.2	4840.8	4776.6	4689.3	4666.1	4684.1	4820.2	5125.8	5405.7	5749.9	6255.8
20°	5416.0	5421.1	5295.3	5113.0	4966.6	4964.0	5046.2	5321.0	5608.6	5921.9	6489.5
22.5°	6094.0	6073.4	5906.5	5657.4	5403.2	5382.6	5416.0	5618.9	5901.4	6194.1	6777.1
25°	6879.8	6869.5	6633.3	6299.4	5963.0	5914.2	5914.2	6114.5	6320.0	6581.9	7121.2
27.5°	7701.6	7701.6	7473.0	7087.8	6641.0	6553.7	6540.8	6777.1	6913.2	6964.5	7411.4
30°	8546.5	8536.2	8310.2	7914.7	7437.1	7347.2	7311.2	7485.9	7583.4	7429.4	7773.5
32.5°	9404.2	9422.2	9193.6	8826.4	8400.1	8341.0	8230.6	8230.6	8310.2	8094.5	8343.6
35°	10326.1	10321.0	10141.2	9892.1	9527.4	9460.7	9278.3	8993.3	9114.0	9019.0	9132.0
37.5°	11140.2	11178.7	11091.4	10906.5	10611.2	10544.4	10243.9	9727.8	9820.2	9969.2	10069.3
40°	11967.1	11997.9	12085.2	12026.2	11653.8	11530.5	10996.4	10148.9	10251.6	10762.7	11050.3
42.5°	12778.6	12794.0	12971.2	13068.8	12570.6	12354.9	11566.5	10405.7	10513.6	11384.1	11887.5
45°	13294.8	13328.2	13620.9	13918.8	13379.5	13084.2	12062.1	10734.4	10780.7	11815.6	12506.4
47.5°	13274.2	13351.3	13900.8	14442.7	14075.5	13757.0	12657.9	11260.9	11183.8	12221.3	12914.7
50°	12860.8	12953.2	13741.6	14601.9	14576.2	14280.9	13320.5	12023.6	11782.2	12580.9	12966.1
52.5°	12003.0	12270.1	13461.7	14622.4	14979.4	14830.5	14139.7	13050.8	12591.1	13097.0	13048.2
55°	10148.9	10477.6	12611.7	14447.8	15344.1	15362.0	15000.0	14121.7	13469.4	13985.6	13554.1
57.5°	7704.1	7966.1	9707.2	12860.8	14740.6	15035.9	15333.8	14686.7	14011.3	14591.6	13672.3
60°	4643.0	4946.1	6078.6	9437.6	11905.5	12408.8	13577.3	13451.4	12637.4	12886.5	11212.1
62.5°	1882.4	2041.6	2806.9	5200.3	7493.6	7963.5	9083.2	9273.2	9072.9	8818.7	6800.2
65°	688.2	752.4	1124.8	2149.5	3446.3	3618.4	4209.0	4545.4	4822.8	4106.3	2529.5
67.5°	426.3	467.4	731.9	1104.3	1253.2	1165.9	1186.4	1415.0	1350.8	834.6	452.0
70°	315.9	349.3	572.7	765.3	505.9	390.3	264.5	282.5	254.2	223.4	220.9
72.5°	218.3	249.1	428.9	452.0	195.2	138.7	97.6	136.1	154.1	151.5	156.7
75°	143.8	166.9	269.6	177.2	48.8	38.5	33.4	71.9	92.4	92.4	95.0
77.5°	84.7	97.6	95.0	36.0	10.3	10.3	7.7	12.8	20.5	23.1	28.2
80°	10.3	7.7	5.1	5.1	5.1	5.1	5.1	5.1	7.7	7.7	7.7
82.5°	2.6	2.6	2.6	5.1	5.1	5.1	5.1	5.1	5.1	7.7	7.7
85°	0.0	0.0	2.6	2.6	5.1	5.1	5.1	5.1	5.1	7.7	7.7
87.5°	0.0	0.0	2.6	2.6	5.1	5.1	5.1	5.1	5.1	7.7	7.7
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°	5387.8	5387.8	5387.8	5387.8	5387.8	5387.8	5387.8	5387.8	5387.8	5387.8	5387.8
2.5°	5439.1	5421.1	5495.6	5549.5	5593.2	5613.7	5585.5	5582.9	5582.9	5526.4	5511.0
5°	5503.3	5511.0	5616.3	5662.5	5670.2	5644.6	5580.4	5536.7	5511.0	5452.0	5418.6
7.5°	5626.6	5652.3	5752.4	5744.7	5675.4	5557.2	5387.8	5256.8	5172.0	5079.6	5023.1
10°	5803.8	5852.6	5914.2	5806.4	5585.5	5285.0	4935.8	4686.7	4537.7	4432.4	4368.2
12.5°	6019.5	6068.3	6047.7	5793.5	5333.8	4797.1	4347.7	3988.2	3816.1	3721.1	3654.3
15°	6237.8	6268.6	6135.1	5639.4	4889.6	4167.9	3667.2	3310.2	3099.6	3022.6	2966.1
17.5°	6461.2	6453.5	6150.5	5336.4	4296.3	3459.2	2966.1	2722.1	2663.1	2650.2	2645.1
20°	6694.9	6625.6	6088.8	4902.4	3582.4	2758.1	2478.2	2493.6	2601.4	2652.8	2663.1
22.5°	6962.0	6787.3	5934.8	4314.3	2853.1	2298.4	2326.6	2478.2	2624.5	2693.9	2704.2
25°	7247.0	6936.3	5677.9	3559.3	2249.6	2113.5	2280.4	2455.1	2611.7	2696.4	2706.7
27.5°	7434.5	6972.2	5256.8	2799.2	1931.2	2041.6	2218.8	2385.7	2547.5	2640.0	2652.8
30°	7637.4	6956.8	4684.1	2157.2	1823.3	1980.0	2134.0	2285.6	2434.5	2537.2	2547.5
32.5°	7935.3	6946.6	3985.6	1751.4	1779.7	1931.2	2044.2	2170.0	2272.7	2331.8	2324.1
35°	8325.6	6933.7	3171.5	1579.3	1754.0	1892.6	1982.5	2041.6	1928.6	1892.6	1900.4
37.5°	8826.4	6964.5	2485.9	1507.4	1746.3	1882.4	1959.4	1789.9	1615.3	1548.5	1538.3
40°	9381.1	7044.1	1895.2	1479.2	1772.0	1908.1	1872.1	1592.2	1376.5	1245.5	1217.3
42.5°	9938.3	7131.5	1499.7	1468.9	1815.6	1980.0	1728.3	1448.4	1124.8	1050.3	1040.1
45°	10351.8	7116.1	1296.9	1450.9	1854.1	2021.1	1689.8	1242.9	1004.1	970.7	973.3
47.5°	10559.8	6946.6	1186.4	1409.9	1869.5	1980.0	1594.8	1158.2	921.9	957.9	988.7
50°	10449.4	6507.4	1083.7	1330.2	1836.2	1926.0	1443.2	1094.0	880.8	1029.8	1099.1
52.5°	10315.8	5968.1	970.7	1207.0	1756.5	1851.6	1384.2	1076.0	855.2	993.8	1045.2
55°	10493.0	5626.6	785.8	1016.9	1599.9	1676.9	1338.0	1073.4	796.1	773.0	765.3
57.5°	10243.9	4946.1	562.4	731.9	1227.5	1327.7	1304.6	1055.5	706.2	703.6	713.9
60°	7917.3	3017.5	385.2	464.8	752.4	847.5	1183.9	1009.2	608.6	559.8	562.4
62.5°	4499.2	1284.0	264.5	287.6	385.2	457.1	904.0	916.8	562.4	534.2	562.4
65°	1566.5	459.7	205.4	192.6	213.1	244.0	518.7	708.8	511.0	462.2	467.4
67.5°	323.6	228.6	182.3	159.2	159.2	159.2	264.5	441.7	421.2	367.2	372.4
70°	205.4	195.2	159.2	136.1	131.0	120.7	151.5	244.0	290.2	267.1	269.6
72.5°	151.5	148.9	125.8	110.4	97.6	87.3	95.0	120.7	148.9	154.1	156.7
75°	92.4	95.0	82.2	69.3	61.6	53.9	56.5	56.5	56.5	51.4	56.5
77.5°	28.2	30.8	25.7	20.5	18.0	18.0	18.0	15.4	12.8	7.7	7.7
80°	7.7	7.7	7.7	7.7	7.7	5.1	5.1	2.6	2.6	0.0	0.0
82.5°	7.7	7.7	7.7	7.7	5.1	5.1	2.6	2.6	0.0	0.0	0.0
85°	7.7	7.7	7.7	7.7	5.1	5.1	2.6	2.6	0.0	0.0	0.0
87.5°	7.7	7.7	7.7	7.7	5.1	5.1	2.6	2.6	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)