

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: P643175

Luminaire Tested: GWS-SA6E-735-U-T3R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643175
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-735-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) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27691.1 lumens
Efficiency: N/A
Efficacy: 85.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

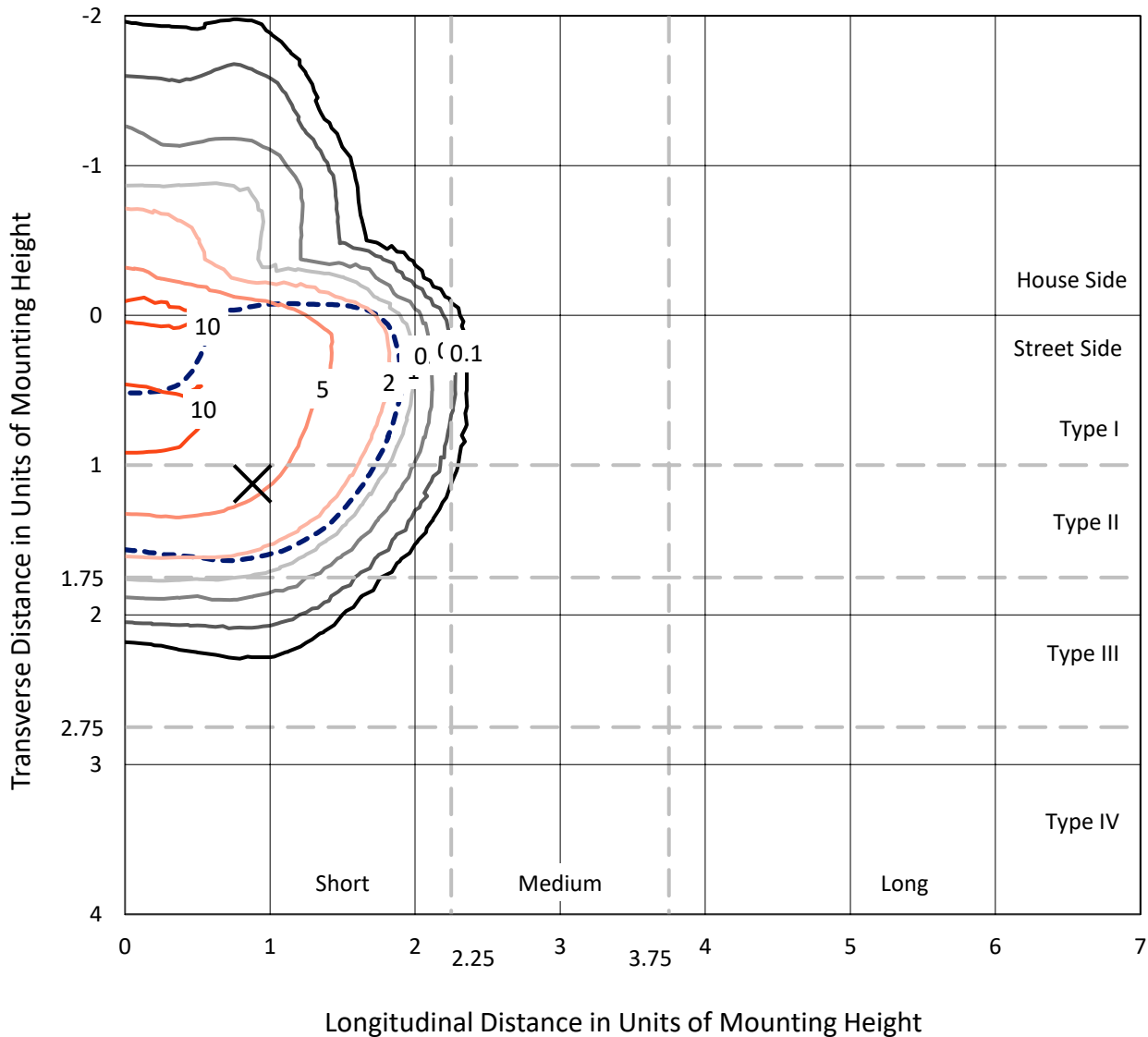
Input Watts (W): 323.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

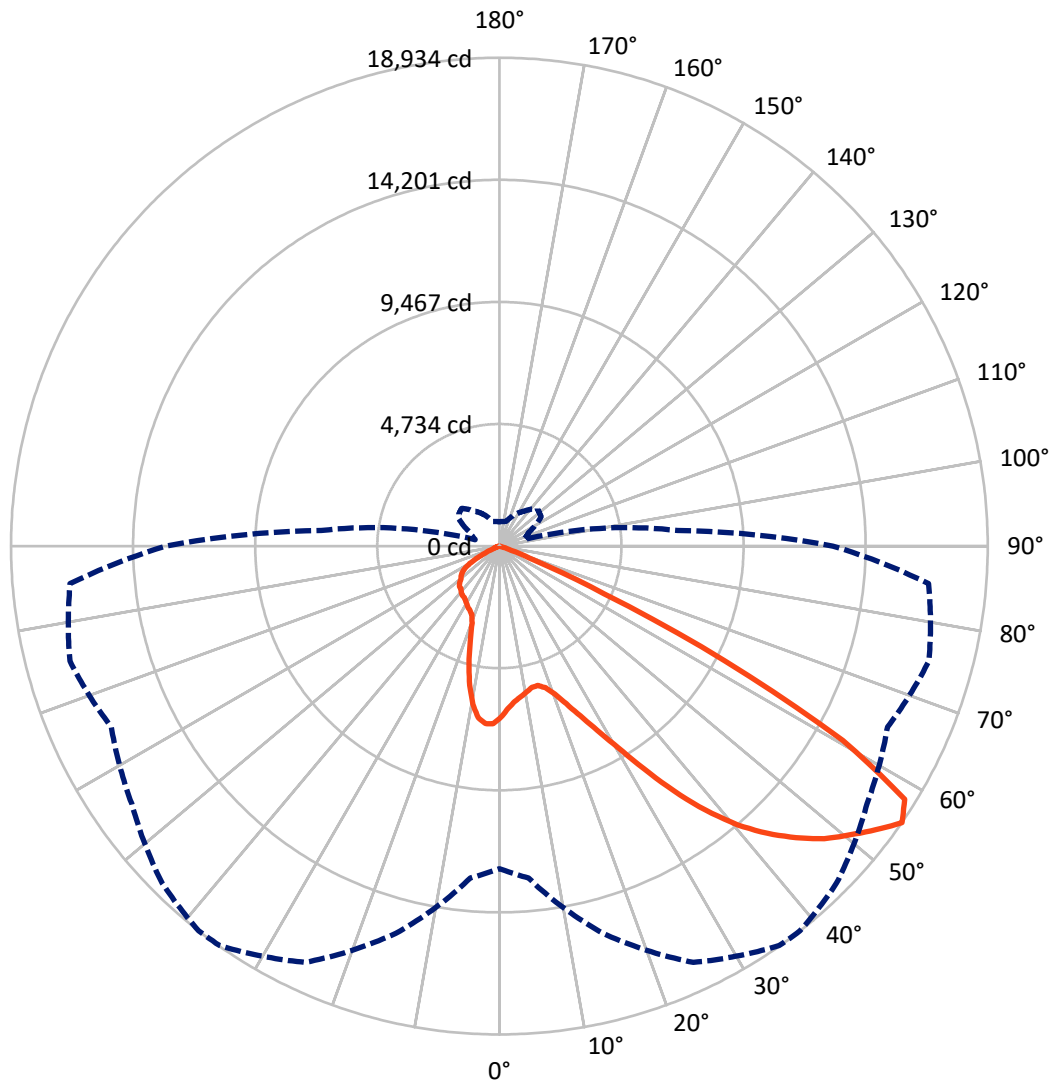
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.1 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	5395.1	0.0	5395.1
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	22296.0	0.0	22296.0
	% Fixture	80.5	0.0	80.5
Total	Lumens	27691.1	0.0	27691.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	614.0	2.2
10°-20°	1653.0	6.0
20°-30°	2836.6	10.2
30°-40°	4704.7	17.0
40°-50°	6916.1	25.0
50°-60°	8081.7	29.2
60°-70°	2739.4	9.9
70°-80°	140.1	0.5
80°-90°	5.5	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°	27691.1	100.0
0°-180°	27691.1	100.0

Coefficient of Utilization



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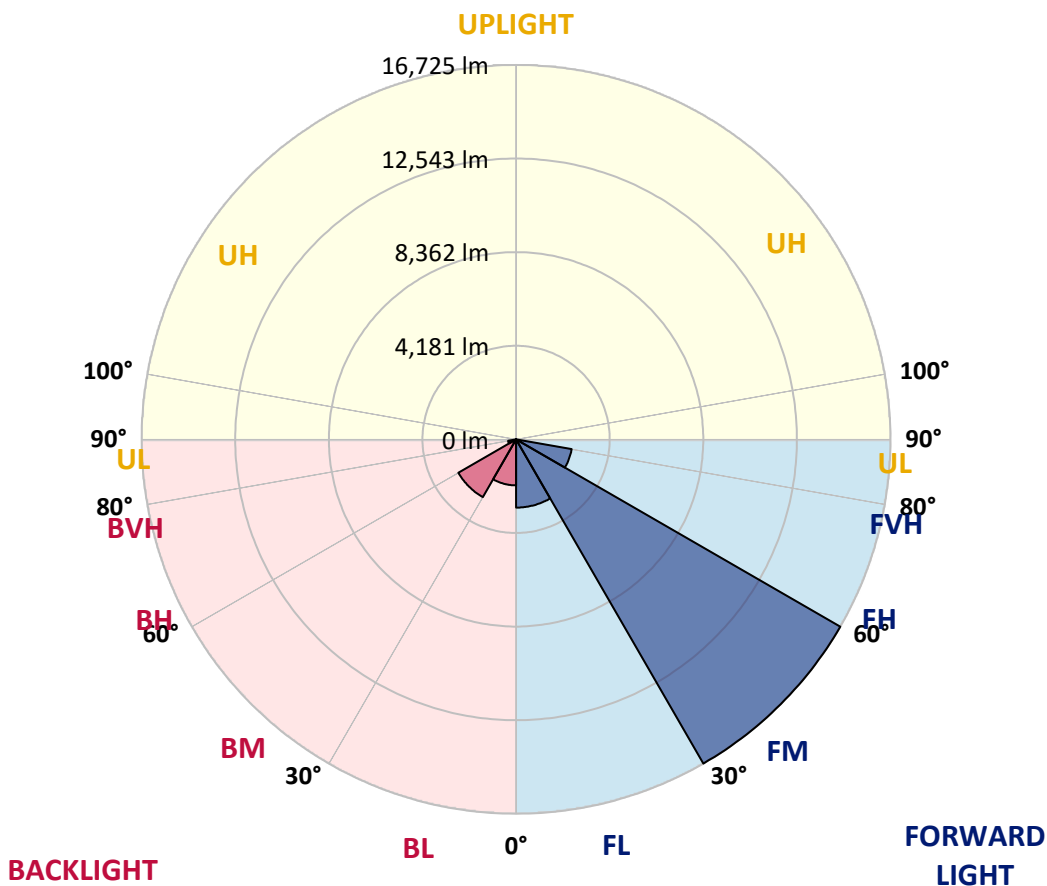
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3048.1	11.0			
FM (30°-60°)	16724.6	60.4			
FH (60°-80°)	2520.3	9.1			G2/5000
FVH (80°-90°)	2.9	0.0			G0/10
BL (0°-30°)	2055.5	7.4	B3/2500		
BM (30°-60°)	2977.9	10.8	B3/5000		
BH (60°-80°)	359.2	1.3	B1/500		G1/500
BVH (80°-90°)	2.6	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°	6640.5	6640.5	6640.5	6640.5	6640.5	6640.5	6640.5	6640.5	6640.5	6640.5	6640.5
2.5°	6184.8	6172.1	6197.4	6248.1	6295.5	6311.4	6358.8	6425.3	6466.5	6564.6	6643.7
5°	5906.2	5899.9	5925.2	5969.5	6032.8	6055.0	6127.8	6238.6	6349.3	6520.3	6688.0
7.5°	5653.0	5649.8	5687.8	5785.9	5877.7	5906.2	5994.8	6130.9	6279.7	6542.4	6789.3
10°	5320.7	5323.8	5396.6	5535.9	5703.6	5760.6	5903.1	6099.3	6292.4	6631.0	6972.9
12.5°	5213.0	5219.4	5257.4	5365.0	5548.6	5621.4	5820.8	6118.3	6365.2	6757.6	7210.3
15°	5475.8	5475.8	5444.1	5456.8	5539.1	5605.5	5814.4	6181.6	6488.6	6909.6	7444.5
17.5°	5985.3	5966.4	5887.2	5779.6	5751.1	5773.3	5941.0	6317.7	6662.7	7086.8	7710.4
20°	6675.4	6681.7	6526.6	6301.9	6121.4	6118.3	6219.6	6558.2	6912.7	7298.9	7998.4
22.5°	7511.0	7485.6	7279.9	6972.9	6659.5	6634.2	6675.4	6925.4	7273.6	7634.4	8352.9
25°	8479.5	8466.8	8175.6	7764.2	7349.5	7289.4	7289.4	7536.3	7789.5	8112.3	8777.0
27.5°	9492.4	9492.4	9210.7	8735.9	8185.1	8077.5	8061.7	8352.9	8520.7	8584.0	9134.7
30°	10533.7	10521.0	10242.5	9755.1	9166.3	9055.6	9011.3	9226.5	9346.8	9156.9	9581.0
32.5°	11590.9	11613.0	11331.3	10878.7	10353.3	10280.5	10144.4	10144.4	10242.5	9976.6	10283.7
35°	12727.2	12720.8	12499.3	12192.3	11742.8	11660.5	11435.8	11084.4	11233.2	11116.1	11255.4
37.5°	13730.5	13778.0	13670.4	13442.5	13078.5	12996.2	12625.9	11989.7	12103.6	12287.2	12410.7
40°	14749.7	14787.7	14895.3	14822.5	14363.6	14211.6	13553.3	12508.8	12635.4	13265.2	13619.7
42.5°	15749.9	15768.9	15987.3	16107.6	15493.5	15227.7	14255.9	12825.3	12958.2	14031.2	14651.6
45°	16386.1	16427.3	16788.1	17155.3	16490.6	16126.6	14866.8	13230.4	13287.4	14563.0	15414.4
47.5°	16360.8	16455.7	17133.1	17800.9	17348.3	16955.8	15601.1	13879.3	13784.3	15063.1	15917.7
50°	15851.2	15965.1	16936.9	17997.2	17965.5	17601.5	16417.8	14819.4	14521.8	15506.2	15981.0
52.5°	14794.0	15123.2	16591.8	18022.5	18462.5	18278.9	17427.5	16085.4	15518.9	16142.4	16082.3
55°	12508.8	12913.9	15544.2	17807.3	18911.9	18934.1	18487.8	17405.3	16601.3	17237.5	16705.8
57.5°	9495.5	9818.4	11964.4	15851.2	18168.1	18532.1	18899.3	18101.6	17269.2	17984.5	16851.4
60°	5722.6	6096.1	7492.0	11632.0	14673.8	15294.1	16734.3	16579.2	15575.8	15882.8	13819.2
62.5°	2320.1	2516.3	3459.5	6409.5	9236.0	9815.2	11195.2	11429.4	11182.6	10869.2	8381.4
65°	848.3	927.4	1386.3	2649.3	4247.7	4459.7	5187.7	5602.4	5944.2	5061.1	3117.7
67.5°	525.4	576.1	902.1	1361.0	1544.6	1437.0	1462.3	1744.0	1664.9	1028.7	557.1
70°	389.3	430.5	705.8	943.2	623.5	481.1	326.0	348.2	313.4	275.4	272.2
72.5°	269.0	307.0	528.6	557.1	240.6	170.9	120.3	167.8	189.9	186.7	193.1
75°	177.2	205.7	332.3	218.4	60.1	47.5	41.1	88.6	113.9	113.9	117.1
77.5°	104.5	120.3	117.1	44.3	12.7	12.7	9.5	15.8	25.3	28.5	34.8
80°	12.7	9.5	6.3	6.3	6.3	6.3	6.3	6.3	9.5	9.5	9.5
82.5°	3.2	3.2	3.2	6.3	6.3	6.3	6.3	6.3	6.3	9.5	9.5
85°	0.0	0.0	3.2	3.2	6.3	6.3	6.3	6.3	6.3	9.5	9.5
87.5°	0.0	0.0	3.2	3.2	6.3	6.3	6.3	6.3	6.3	9.5	9.5
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°	6640.5	6640.5	6640.5	6640.5	6640.5	6640.5	6640.5	6640.5	6640.5	6640.5	6640.5
2.5°	6703.8	6681.7	6773.5	6839.9	6893.8	6919.1	6884.3	6881.1	6881.1	6811.5	6792.5
5°	6783.0	6792.5	6922.2	6979.2	6988.7	6957.1	6877.9	6824.1	6792.5	6719.7	6678.5
7.5°	6934.9	6966.6	7090.0	7080.5	6995.0	6849.4	6640.5	6479.1	6374.7	6260.7	6191.1
10°	7153.3	7213.4	7289.4	7156.5	6884.3	6513.9	6083.5	5776.4	5592.9	5463.1	5384.0
12.5°	7419.2	7479.3	7454.0	7140.6	6574.1	5912.5	5358.6	4915.5	4703.5	4586.3	4504.0
15°	7688.2	7726.2	7561.6	6950.7	6026.5	5137.1	4519.9	4079.9	3820.4	3725.4	3655.8
17.5°	7963.6	7954.1	7580.6	6577.2	5295.3	4263.5	3655.8	3355.1	3282.3	3266.5	3260.1
20°	8251.6	8166.2	7504.6	6042.3	4415.4	3399.4	3054.4	3073.4	3206.3	3269.6	3282.3
22.5°	8580.8	8365.6	7314.7	5317.5	3516.5	2832.8	2867.6	3054.4	3234.8	3320.3	3332.9
25°	8932.1	8549.1	6998.2	4386.9	2772.7	2604.9	2810.7	3025.9	3219.0	3323.4	3336.1
27.5°	9163.2	8593.5	6479.1	3450.0	2380.2	2516.3	2734.7	2940.4	3139.9	3253.8	3269.6
30°	9413.2	8574.5	5773.3	2658.7	2247.3	2440.4	2630.3	2817.0	3000.6	3127.2	3139.9
32.5°	9780.4	8561.8	4912.4	2158.6	2193.5	2380.2	2519.5	2674.6	2801.2	2874.0	2864.5
35°	10261.5	8546.0	3909.0	1946.6	2161.8	2332.7	2443.5	2516.3	2377.0	2332.7	2342.2
37.5°	10878.7	8584.0	3063.9	1858.0	2152.3	2320.1	2415.0	2206.1	1990.9	1908.6	1895.9
40°	11562.4	8682.1	2335.9	1823.1	2184.0	2351.7	2307.4	1962.4	1696.5	1535.1	1500.3
42.5°	12249.2	8789.7	1848.5	1810.5	2237.8	2440.4	2130.2	1785.2	1386.3	1294.6	1281.9
45°	12758.8	8770.7	1598.4	1788.3	2285.3	2491.0	2082.7	1531.9	1237.6	1196.4	1199.6
47.5°	13015.2	8561.8	1462.3	1737.7	2304.2	2440.4	1965.6	1427.5	1136.3	1180.6	1218.6
50°	12879.1	8020.6	1335.7	1639.6	2263.1	2373.9	1778.8	1348.4	1085.7	1269.2	1354.7
52.5°	12714.5	7355.9	1196.4	1487.6	2165.0	2282.1	1706.0	1326.2	1054.0	1224.9	1288.2
55°	12932.9	6934.9	968.5	1253.4	1971.9	2066.9	1649.1	1323.0	981.2	952.7	943.2
57.5°	12625.9	6096.1	693.2	902.1	1513.0	1636.4	1607.9	1300.9	870.4	867.3	879.9
60°	9758.2	3719.1	474.8	572.9	927.4	1044.5	1459.1	1243.9	750.1	690.0	693.2
62.5°	5545.4	1582.6	326.0	354.5	474.8	563.4	1114.1	1130.0	693.2	658.4	693.2
65°	1930.8	566.6	253.2	237.4	262.7	300.7	639.4	873.6	629.9	569.7	576.1
67.5°	398.8	281.7	224.7	196.2	196.2	196.2	326.0	544.4	519.1	452.6	459.0
70°	253.2	240.6	196.2	167.8	161.4	148.8	186.7	300.7	357.7	329.2	332.3
72.5°	186.7	183.6	155.1	136.1	120.3	107.6	117.1	148.8	183.6	189.9	193.1
75°	113.9	117.1	101.3	85.5	76.0	66.5	69.6	69.6	69.6	63.3	69.6
77.5°	34.8	38.0	31.7	25.3	22.2	22.2	22.2	19.0	15.8	9.5	9.5
80°	9.5	9.5	9.5	9.5	9.5	6.3	6.3	3.2	3.2	0.0	0.0
82.5°	9.5	9.5	9.5	9.5	6.3	6.3	3.2	3.2	0.0	0.0	0.0
85°	9.5	9.5	9.5	9.5	6.3	6.3	3.2	3.2	0.0	0.0	0.0
87.5°	9.5	9.5	9.5	9.5	6.3	6.3	3.2	3.2	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)