

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: P642680

Luminaire Tested: GWS-SA6D-735-U-T3R-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P642680  
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-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**

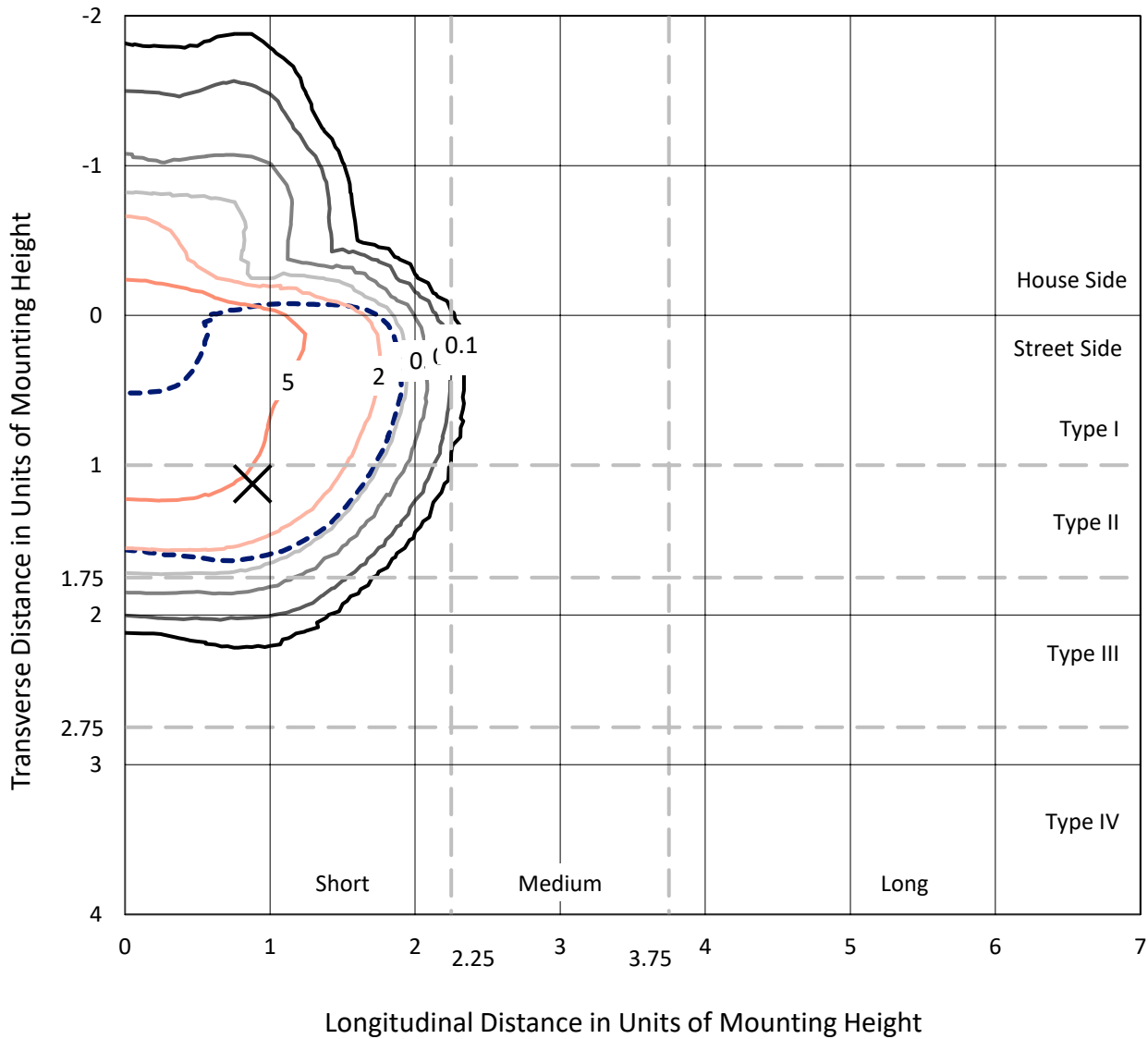
Lumens per Lamp: N/A  
Luminaire Lumens: 22159.1 lumens  
Efficiency: N/A  
Efficacy: 90.2 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 245.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

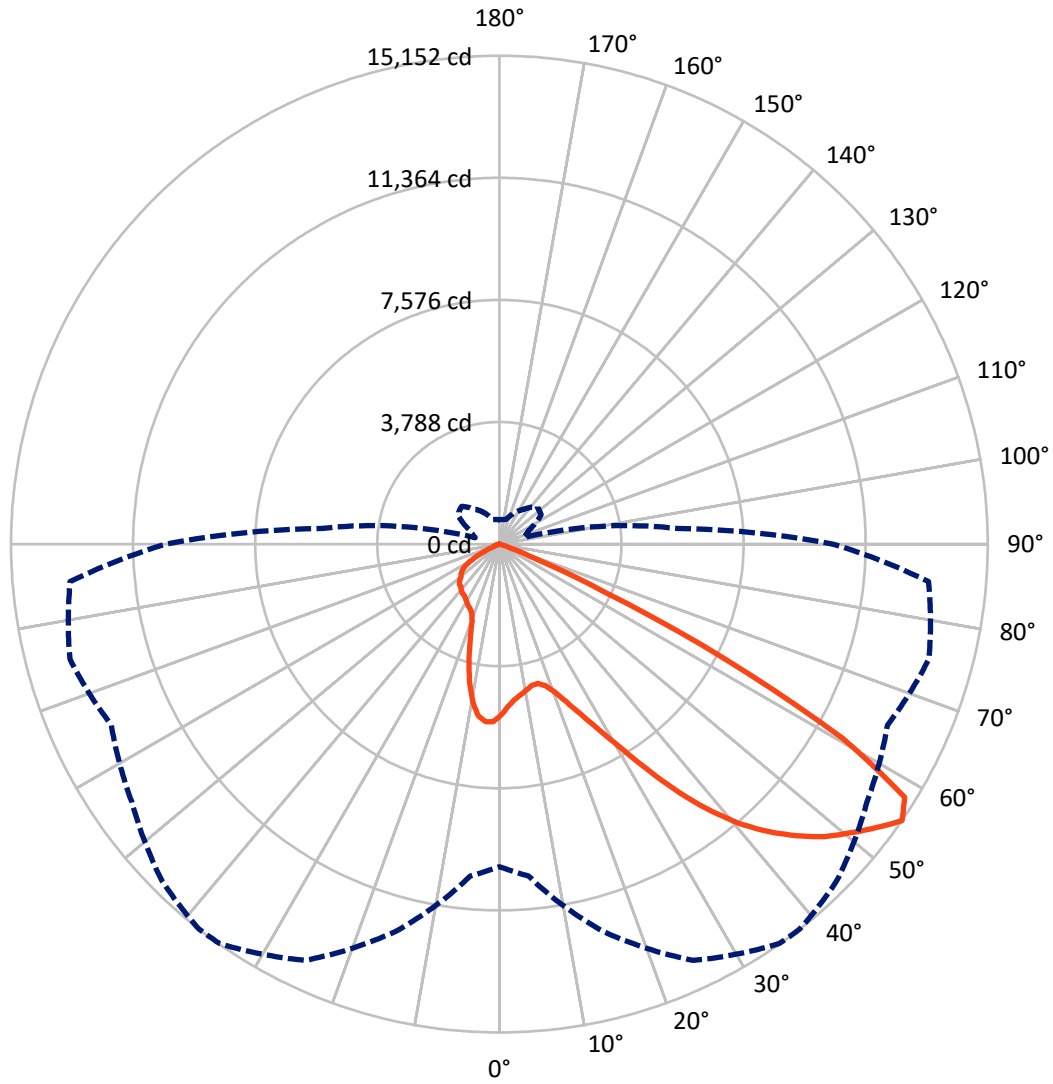
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 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
<b>House Side</b>	Lumens	4317.3	0.0	4317.3
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	17841.8	0.0	17841.8
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	22159.1	0.0	22159.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	491.3	2.2
10°-20°	1322.8	6.0
20°-30°	2269.9	10.2
30°-40°	3764.8	17.0
40°-50°	5534.5	25.0
50°-60°	6467.2	29.2
60°-70°	2192.2	9.9
70°-80°	112.1	0.5
80°-90°	4.4	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°	22159.1	100.0
0°-180°	22159.1	100.0

**Coefficient of Utilization**



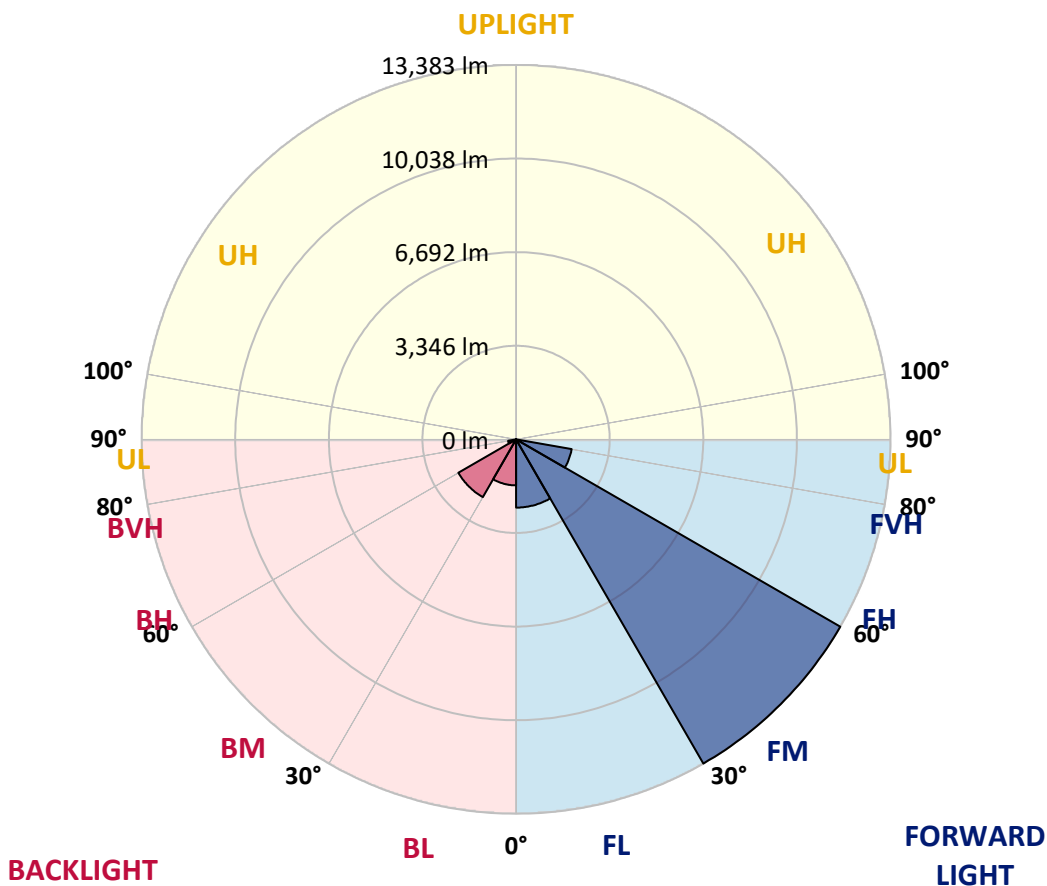
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2439.2	11.0			
FM (30°-60°)	13383.5	60.4			
FH (60°-80°)	2016.8	9.1			G2/5000
FVH (80°-90°)	2.3	0.0			G0/10
BL (0°-30°)	1644.8	7.4	B3/2500		
BM (30°-60°)	2383.0	10.8	B2/2500		
BH (60°-80°)	287.4	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°	5313.9	5313.9	5313.9	5313.9	5313.9	5313.9	5313.9	5313.9	5313.9	5313.9	5313.9
2.5°	4949.2	4939.1	4959.3	4999.8	5037.8	5050.5	5088.5	5141.7	5174.6	5253.1	5316.5
5°	4726.3	4721.2	4741.5	4777.0	4827.6	4845.3	4903.6	4992.2	5080.9	5217.7	5351.9
7.5°	4523.7	4521.1	4551.5	4630.1	4703.5	4726.3	4797.2	4906.1	5025.2	5235.4	5433.0
10°	4257.7	4260.3	4318.5	4430.0	4564.2	4609.8	4723.8	4880.8	5035.3	5306.3	5579.9
12.5°	4171.6	4176.7	4207.1	4293.2	4440.1	4498.3	4657.9	4896.0	5093.6	5407.6	5769.8
15°	4381.8	4381.8	4356.5	4366.6	4432.5	4485.7	4652.8	4946.7	5192.3	5529.2	5957.3
17.5°	4789.6	4774.4	4711.1	4625.0	4602.2	4619.9	4754.2	5055.6	5331.7	5671.1	6170.0
20°	5341.8	5346.8	5222.7	5042.9	4898.5	4896.0	4977.1	5248.1	5531.7	5840.8	6400.5
22.5°	6010.5	5990.2	5825.6	5579.9	5329.1	5308.9	5341.8	5541.9	5820.5	6109.2	6684.2
25°	6785.5	6775.4	6542.4	6213.1	5881.3	5833.2	5833.2	6030.7	6233.3	6491.7	7023.6
27.5°	7596.0	7596.0	7370.6	6990.7	6550.0	6463.8	6451.2	6684.2	6818.4	6869.1	7309.8
30°	8429.3	8419.2	8196.3	7806.2	7335.1	7246.5	7211.0	7383.3	7479.5	7327.5	7666.9
32.5°	9275.3	9293.0	9067.6	8705.4	8285.0	8226.7	8117.8	8117.8	8196.3	7983.5	8229.2
35°	10184.6	10179.5	10002.2	9756.5	9396.9	9331.0	9151.2	8870.0	8989.1	8895.4	9006.8
37.5°	10987.5	11025.5	10939.4	10757.0	10465.7	10399.9	10103.5	9594.4	9685.6	9832.5	9931.3
40°	11803.1	11833.5	11919.6	11861.3	11494.1	11372.5	10845.7	10009.8	10111.1	10615.2	10898.9
42.5°	12603.5	12618.7	12793.4	12889.7	12398.3	12185.5	11408.0	10263.1	10369.5	11228.1	11724.6
45°	13112.6	13145.5	13434.2	13728.1	13196.2	12904.9	11896.8	10587.3	10632.9	11653.6	12335.0
47.5°	13092.3	13168.3	13710.3	14244.8	13882.6	13568.5	12484.4	11106.6	11030.6	12053.8	12737.7
50°	12684.5	12775.7	13553.3	14401.8	14376.5	14085.2	13137.9	11858.8	11620.7	12408.4	12788.4
52.5°	11838.5	12102.0	13277.2	14422.1	14774.1	14627.2	13945.9	12871.9	12418.6	12917.5	12869.4
55°	10009.8	10334.0	12438.8	14249.8	15133.8	15151.5	14794.4	13928.1	13284.8	13793.9	13368.4
57.5°	7598.6	7856.9	9574.2	12684.5	14538.6	14829.8	15123.7	14485.4	13819.2	14391.7	13484.9
60°	4579.4	4878.3	5995.3	9308.2	11742.3	12238.7	13391.2	13267.1	12464.2	12709.8	11058.4
62.5°	1856.6	2013.6	2768.4	5129.0	7390.9	7854.4	8958.7	9146.1	8948.6	8697.8	6707.0
65°	678.8	742.1	1109.4	2120.0	3399.1	3568.8	4151.3	4483.1	4756.7	4050.0	2494.9
67.5°	420.5	461.0	721.9	1089.1	1236.0	1149.9	1170.2	1395.6	1332.3	823.2	445.8
70°	311.5	344.5	564.8	754.8	499.0	385.0	260.9	278.6	250.8	220.4	217.8
72.5°	215.3	245.7	423.0	445.8	192.5	136.8	96.2	134.2	152.0	149.4	154.5
75°	141.8	164.6	265.9	174.8	48.1	38.0	32.9	70.9	91.2	91.2	93.7
77.5°	83.6	96.2	93.7	35.5	10.1	10.1	7.6	12.7	20.3	22.8	27.9
80°	10.1	7.6	5.1	5.1	5.1	5.1	5.1	5.1	7.6	7.6	7.6
82.5°	2.5	2.5	2.5	5.1	5.1	5.1	5.1	5.1	5.1	7.6	7.6
85°	0.0	0.0	2.5	2.5	5.1	5.1	5.1	5.1	5.1	7.6	7.6
87.5°	0.0	0.0	2.5	2.5	5.1	5.1	5.1	5.1	5.1	7.6	7.6
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°	5313.9	5313.9	5313.9	5313.9	5313.9	5313.9	5313.9	5313.9	5313.9	5313.9	5313.9
2.5°	5364.6	5346.8	5420.3	5473.5	5516.5	5536.8	5509.0	5506.4	5506.4	5450.7	5435.5
5°	5427.9	5435.5	5539.3	5584.9	5592.5	5567.2	5503.9	5460.8	5435.5	5377.2	5344.3
7.5°	5549.5	5574.8	5673.6	5666.0	5597.6	5481.1	5313.9	5184.7	5101.2	5010.0	4954.3
10°	5724.2	5772.4	5833.2	5726.8	5509.0	5212.6	4868.1	4622.5	4475.5	4371.7	4308.4
12.5°	5937.0	5985.1	5964.9	5714.1	5260.7	4731.4	4288.1	3933.5	3763.8	3670.1	3604.2
15°	6152.3	6182.7	6051.0	5562.1	4822.5	4110.8	3616.9	3264.8	3057.2	2981.2	2925.4
17.5°	6372.7	6365.1	6066.2	5263.3	4237.5	3411.8	2925.4	2684.8	2626.6	2613.9	2608.8
20°	6603.1	6534.8	6005.4	4835.2	3533.3	2720.3	2444.2	2459.4	2565.8	2616.4	2626.6
22.5°	6866.6	6694.3	5853.4	4255.2	2814.0	2266.9	2294.8	2444.2	2588.6	2657.0	2667.1
25°	7147.7	6841.2	5600.1	3510.5	2218.8	2084.5	2249.2	2421.4	2575.9	2659.5	2669.6
27.5°	7332.6	6876.7	5184.7	2760.8	1904.7	2013.6	2188.4	2353.0	2512.6	2603.8	2616.4
30°	7532.7	6861.5	4619.9	2127.6	1798.3	1952.8	2104.8	2254.2	2401.1	2502.5	2512.6
32.5°	7826.5	6851.4	3931.0	1727.4	1755.3	1904.7	2016.1	2140.3	2241.6	2299.8	2292.2
35°	8211.5	6838.7	3128.1	1557.7	1729.9	1866.7	1955.4	2013.6	1902.2	1866.7	1874.3
37.5°	8705.4	6869.1	2451.8	1486.8	1722.3	1856.6	1932.6	1765.4	1593.2	1527.3	1517.2
40°	9252.5	6947.6	1869.2	1458.9	1747.7	1881.9	1846.4	1570.4	1357.6	1228.4	1200.6
42.5°	9802.1	7033.7	1479.2	1448.8	1790.7	1952.8	1704.6	1428.5	1109.4	1035.9	1025.8
45°	10209.9	7018.5	1279.1	1431.1	1828.7	1993.4	1666.6	1225.9	990.3	957.4	960.0
47.5°	10415.1	6851.4	1170.2	1390.5	1843.9	1952.8	1572.9	1142.3	909.3	944.8	975.1
50°	10306.2	6418.2	1068.9	1312.0	1811.0	1899.6	1423.5	1079.0	868.8	1015.7	1084.1
52.5°	10174.5	5886.3	957.4	1190.4	1732.5	1826.2	1365.2	1061.3	843.4	980.2	1030.9
55°	10349.2	5549.5	775.1	1003.0	1578.0	1654.0	1319.6	1058.7	785.2	762.4	754.8
57.5°	10103.5	4878.3	554.7	721.9	1210.7	1309.5	1286.7	1041.0	696.5	694.0	704.1
60°	7808.8	2976.1	379.9	458.4	742.1	835.8	1167.6	995.4	600.3	552.2	554.7
62.5°	4437.6	1266.4	260.9	283.7	379.9	450.8	891.6	904.2	554.7	526.8	554.7
65°	1545.0	453.4	202.6	190.0	210.2	240.6	511.6	699.1	504.0	455.9	461.0
67.5°	319.1	225.4	179.8	157.0	157.0	157.0	260.9	435.7	415.4	362.2	367.3
70°	202.6	192.5	157.0	134.2	129.2	119.0	149.4	240.6	286.2	263.4	265.9
72.5°	149.4	146.9	124.1	108.9	96.2	86.1	93.7	119.0	146.9	152.0	154.5
75°	91.2	93.7	81.1	68.4	60.8	53.2	55.7	55.7	55.7	50.7	55.7
77.5°	27.9	30.4	25.3	20.3	17.7	17.7	17.7	15.2	12.7	7.6	7.6
80°	7.6	7.6	7.6	7.6	7.6	5.1	5.1	2.5	2.5	0.0	0.0
82.5°	7.6	7.6	7.6	7.6	5.1	5.1	2.5	2.5	0.0	0.0	0.0
85°	7.6	7.6	7.6	7.6	5.1	5.1	2.5	2.5	0.0	0.0	0.0
87.5°	7.6	7.6	7.6	7.6	5.1	5.1	2.5	2.5	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)