

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: P640205

Luminaire Tested: GWS-SA5D-735-U-T3R-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640205  
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-SA5D-735-U-T3R-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND  
TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (80) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

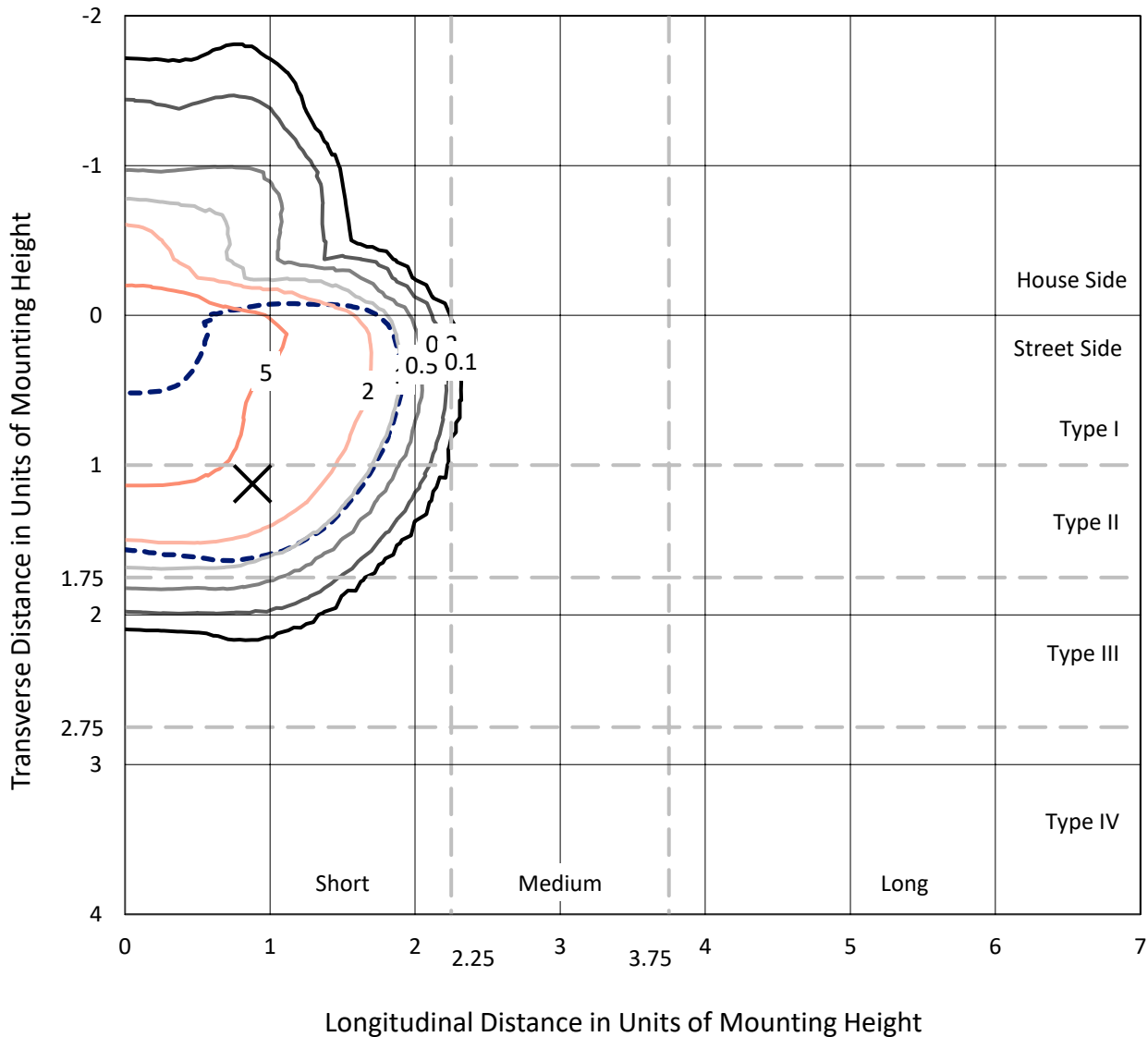
Lumens per Lamp: N/A  
Luminaire Lumens: 18583.2 lumens  
Efficiency: N/A  
Efficacy: 90.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G1  
  
Input Watts (W): 204.6  
Input Voltage (V): 120  
Input Current (Ain): 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

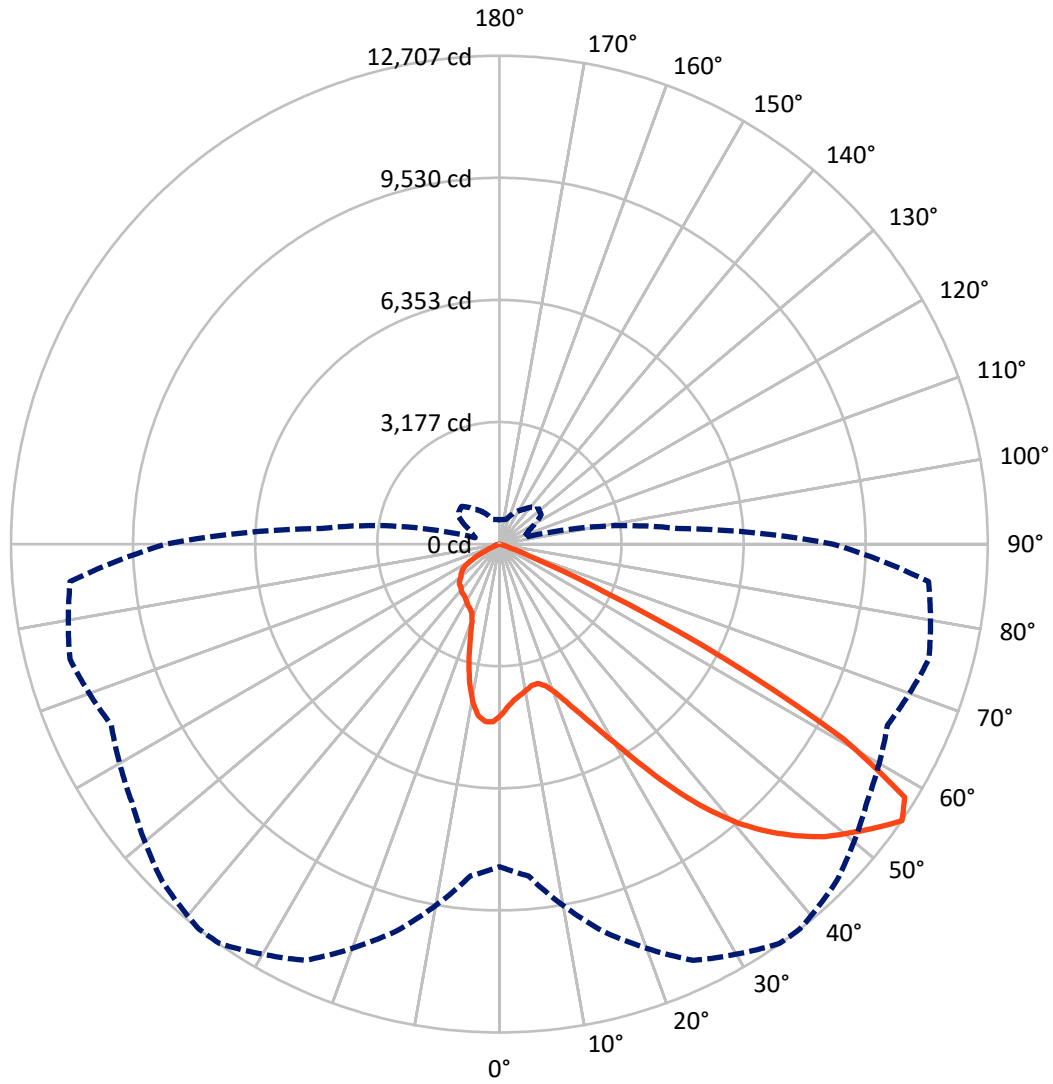
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 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
<b>House Side</b>	Lumens	3620.6	0.0	3620.6
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	14962.6	0.0	14962.6
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	18583.2	0.0	18583.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	412.1	2.2
10°-20°	1109.3	6.0
20°-30°	1903.6	10.2
30°-40°	3157.3	17.0
40°-50°	4641.3	25.0
50°-60°	5423.5	29.2
60°-70°	1838.4	9.9
70°-80°	94.0	0.5
80°-90°	3.7	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°	18583.2	100.0
0°-180°	18583.2	100.0

**Coefficient of Utilization**



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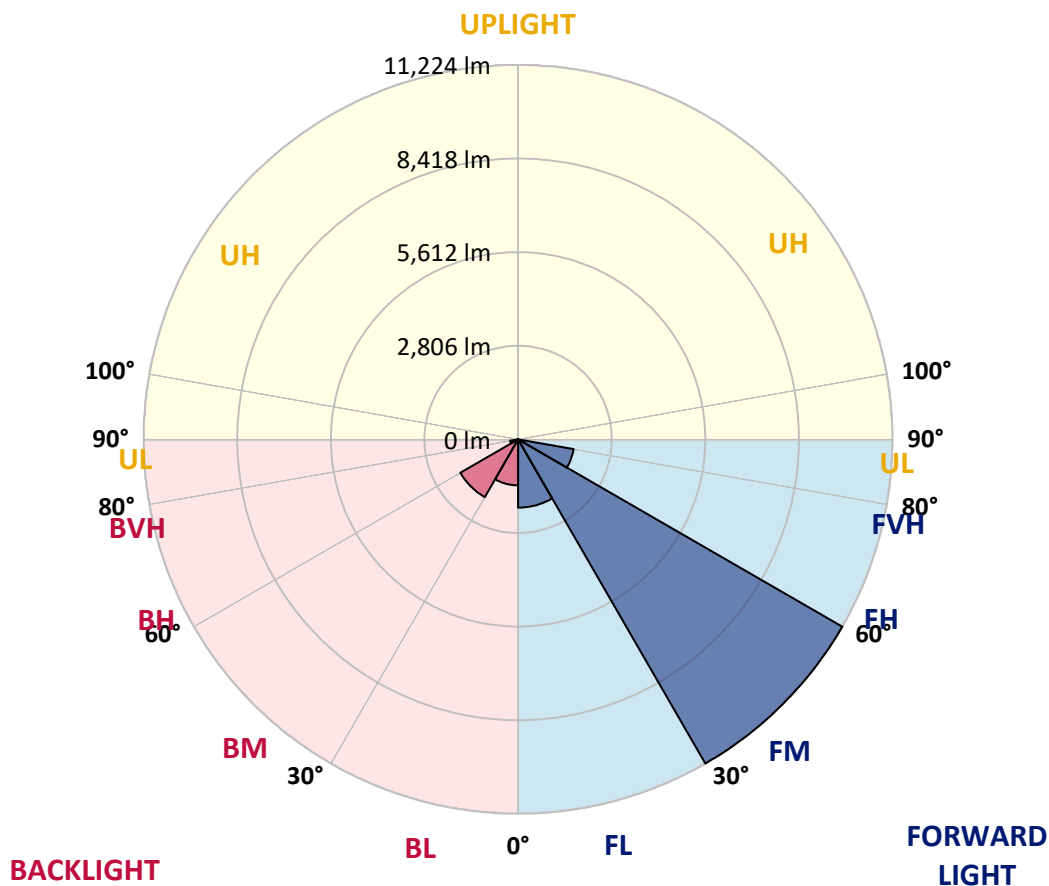
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2045.6	11.0			
FM (30°-60°)	11223.7	60.4			
FH (60°-80°)	1691.4	9.1			G1/1800
FVH (80°-90°)	2.0	0.0			G0/10
BL (0°-30°)	1379.4	7.4	B3/2500		
BM (30°-60°)	1998.4	10.8	B2/2500		
BH (60°-80°)	241.0	1.3	B1/500		G1/500
BVH (80°-90°)	1.7	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-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	4456.4	4456.4	4456.4	4456.4	4456.4	4456.4	4456.4	4456.4	4456.4	4456.4	4456.4
2.5°	4150.5	4142.0	4159.0	4193.0	4224.9	4235.5	4267.3	4312.0	4339.6	4405.4	4458.5
5°	3963.6	3959.4	3976.3	4006.1	4048.6	4063.4	4112.3	4186.6	4261.0	4375.7	4488.3
7.5°	3793.7	3791.5	3817.0	3882.9	3944.5	3963.6	4023.1	4114.4	4214.2	4390.5	4556.2
10°	3570.6	3572.8	3621.6	3715.1	3827.7	3865.9	3961.5	4093.2	4222.7	4450.0	4679.4
12.5°	3498.4	3502.7	3528.2	3600.4	3723.6	3772.4	3906.2	4105.9	4271.6	4535.0	4838.7
15°	3674.7	3674.7	3653.5	3662.0	3717.2	3761.8	3902.0	4148.4	4354.4	4636.9	4995.9
17.5°	4016.7	4004.0	3950.9	3878.6	3859.5	3874.4	3987.0	4239.7	4471.3	4755.9	5174.3
20°	4479.8	4484.0	4379.9	4229.1	4108.0	4105.9	4173.9	4401.2	4639.1	4898.2	5367.6
22.5°	5040.5	5023.5	4885.5	4679.4	4469.1	4452.1	4479.8	4647.6	4881.2	5123.4	5605.5
25°	5690.5	5682.0	5486.6	5210.5	4932.2	4891.8	4891.8	5057.5	5227.4	5444.1	5890.2
27.5°	6370.2	6370.2	6181.2	5862.6	5493.0	5420.7	5410.1	5605.5	5718.1	5760.6	6130.2
30°	7069.1	7060.6	6873.6	6546.5	6151.4	6077.1	6047.4	6191.8	6272.5	6145.1	6429.7
32.5°	7778.5	7793.4	7604.3	7300.6	6948.0	6899.1	6807.8	6807.8	6873.6	6695.2	6901.3
35°	8541.1	8536.8	8388.1	8182.1	7880.5	7825.2	7674.4	7438.7	7538.5	7459.9	7553.4
37.5°	9214.4	9246.3	9174.1	9021.1	8776.8	8721.6	8473.1	8046.1	8122.6	8245.8	8328.7
40°	9898.4	9923.9	9996.1	9947.2	9639.2	9537.3	9095.5	8394.5	8479.5	8902.2	9140.1
42.5°	10569.6	10582.3	10728.9	10809.6	10397.5	10219.1	9567.0	8606.9	8696.1	9416.2	9832.5
45°	10996.5	11024.2	11266.3	11512.7	11066.6	10822.4	9977.0	8878.8	8917.0	9773.1	10344.4
47.5°	10979.6	11043.3	11497.8	11946.0	11642.3	11378.9	10469.8	9314.2	9250.5	10108.7	10682.2
50°	10637.6	10714.0	11366.1	12077.7	12056.5	11812.2	11017.8	9945.1	9745.4	10406.0	10724.7
52.5°	9928.1	10149.0	11134.6	12094.7	12390.0	12266.8	11695.4	10794.8	10414.5	10833.0	10792.6
55°	8394.5	8666.4	10431.5	11950.3	12691.6	12706.5	12407.0	11680.5	11141.0	11567.9	11211.1
57.5°	6372.3	6589.0	8029.2	10637.6	12192.4	12436.7	12683.1	12147.8	11589.2	12069.2	11308.8
60°	3840.4	4091.0	5027.8	7806.1	9847.4	10263.7	11230.2	11126.1	10452.8	10658.8	9273.9
62.5°	1557.0	1688.7	2321.7	4301.3	6198.2	6586.9	7513.0	7670.2	7504.5	7294.2	5624.7
65°	569.3	622.4	930.4	1777.9	2850.6	2992.9	3481.4	3759.7	3989.1	3396.5	2092.3
67.5°	352.6	386.6	605.4	913.4	1036.6	964.3	981.3	1170.4	1117.3	690.3	373.8
70°	261.3	288.9	473.7	633.0	418.5	322.9	218.8	233.7	210.3	184.8	182.7
72.5°	180.5	206.0	354.7	373.8	161.4	114.7	80.7	112.6	127.4	125.3	129.6
75°	119.0	138.1	223.0	146.6	40.4	31.9	27.6	59.5	76.5	76.5	78.6
77.5°	70.1	80.7	78.6	29.7	8.5	8.5	6.4	10.6	17.0	19.1	23.4
80°	8.5	6.4	4.2	4.2	4.2	4.2	4.2	4.2	6.4	6.4	6.4
82.5°	2.1	2.1	2.1	4.2	4.2	4.2	4.2	4.2	4.2	6.4	6.4
85°	0.0	0.0	2.1	2.1	4.2	4.2	4.2	4.2	4.2	6.4	6.4
87.5°	0.0	0.0	2.1	2.1	4.2	4.2	4.2	4.2	4.2	6.4	6.4
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°	4456.4	4456.4	4456.4	4456.4	4456.4	4456.4	4456.4	4456.4	4456.4	4456.4	4456.4
2.5°	4498.9	4484.0	4545.6	4590.2	4626.3	4643.3	4620.0	4617.8	4617.8	4571.1	4558.4
5°	4552.0	4558.4	4645.4	4683.7	4690.0	4668.8	4615.7	4579.6	4558.4	4509.5	4481.9
7.5°	4653.9	4675.2	4758.0	4751.6	4694.3	4596.6	4456.4	4348.1	4278.0	4201.5	4154.8
10°	4800.5	4840.9	4891.8	4802.6	4620.0	4371.4	4082.5	3876.5	3753.3	3666.2	3613.1
12.5°	4978.9	5019.3	5002.3	4792.0	4411.8	3967.8	3596.1	3298.8	3156.4	3077.8	3022.6
15°	5159.5	5185.0	5074.5	4664.6	4044.3	3447.4	3033.2	2738.0	2563.8	2500.1	2453.4
17.5°	5344.3	5337.9	5087.3	4413.9	3553.6	2861.2	2453.4	2251.6	2202.7	2192.1	2187.8
20°	5537.6	5480.2	5036.3	4054.9	2963.1	2281.3	2049.8	2062.5	2151.7	2194.2	2202.7
22.5°	5758.5	5614.0	4908.8	3568.5	2359.9	1901.1	1924.4	2049.8	2170.8	2228.2	2236.7
25°	5994.3	5737.2	4696.4	2944.0	1860.7	1748.1	1886.2	2030.7	2160.2	2230.3	2238.8
27.5°	6149.3	5767.0	4348.1	2315.3	1597.3	1688.7	1835.2	1973.3	2107.1	2183.6	2194.2
30°	6317.1	5754.2	3874.4	1784.3	1508.1	1637.7	1765.1	1890.5	2013.7	2098.6	2107.1
32.5°	6563.5	5745.7	3296.6	1448.6	1472.0	1597.3	1690.8	1794.9	1879.8	1928.7	1922.3
35°	6886.4	5735.1	2623.3	1306.3	1450.8	1565.5	1639.8	1688.7	1595.2	1565.5	1571.8
37.5°	7300.6	5760.6	2056.1	1246.9	1444.4	1557.0	1620.7	1480.5	1336.1	1280.8	1272.3
40°	7759.4	5826.4	1567.6	1223.5	1465.6	1578.2	1548.5	1317.0	1138.5	1030.2	1006.8
42.5°	8220.3	5898.7	1240.5	1215.0	1501.7	1637.7	1429.5	1198.0	930.4	868.8	860.3
45°	8562.3	5885.9	1072.7	1200.1	1533.6	1671.7	1397.7	1028.1	830.5	802.9	805.0
47.5°	8734.4	5745.7	981.3	1166.1	1546.4	1637.7	1319.1	958.0	762.6	792.3	817.8
50°	8643.0	5382.5	896.4	1100.3	1518.7	1593.1	1193.8	904.9	728.6	851.8	909.1
52.5°	8532.6	4936.4	802.9	998.3	1452.9	1531.5	1144.9	890.0	707.3	822.0	864.5
55°	8679.1	4653.9	650.0	841.1	1323.3	1387.0	1106.7	887.9	658.5	639.4	633.0
57.5°	8473.1	4091.0	465.2	605.4	1015.3	1098.2	1079.1	873.0	584.1	582.0	590.5
60°	6548.6	2495.8	318.6	384.5	622.4	701.0	979.2	834.8	503.4	463.1	465.2
62.5°	3721.4	1062.1	218.8	237.9	318.6	378.1	747.7	758.3	465.2	441.8	465.2
65°	1295.7	380.2	169.9	159.3	176.3	201.8	429.1	586.3	422.7	382.3	386.6
67.5°	267.6	189.0	150.8	131.7	131.7	131.7	218.8	365.3	348.4	303.7	308.0
70°	169.9	161.4	131.7	112.6	108.3	99.8	125.3	201.8	240.0	220.9	223.0
72.5°	125.3	123.2	104.1	91.3	80.7	72.2	78.6	99.8	123.2	127.4	129.6
75°	76.5	78.6	68.0	57.4	51.0	44.6	46.7	46.7	46.7	42.5	46.7
77.5°	23.4	25.5	21.2	17.0	14.9	14.9	14.9	12.7	10.6	6.4	6.4
80°	6.4	6.4	6.4	6.4	6.4	4.2	4.2	2.1	2.1	0.0	0.0
82.5°	6.4	6.4	6.4	6.4	4.2	4.2	2.1	2.1	0.0	0.0	0.0
85°	6.4	6.4	6.4	6.4	4.2	4.2	2.1	2.1	0.0	0.0	0.0
87.5°	6.4	6.4	6.4	6.4	4.2	4.2	2.1	2.1	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)