

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: P638720

Luminaire Tested: GWS-SA4F-735-U-T3R-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P638720  
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-SA4F-735-U-T3R-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (64) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

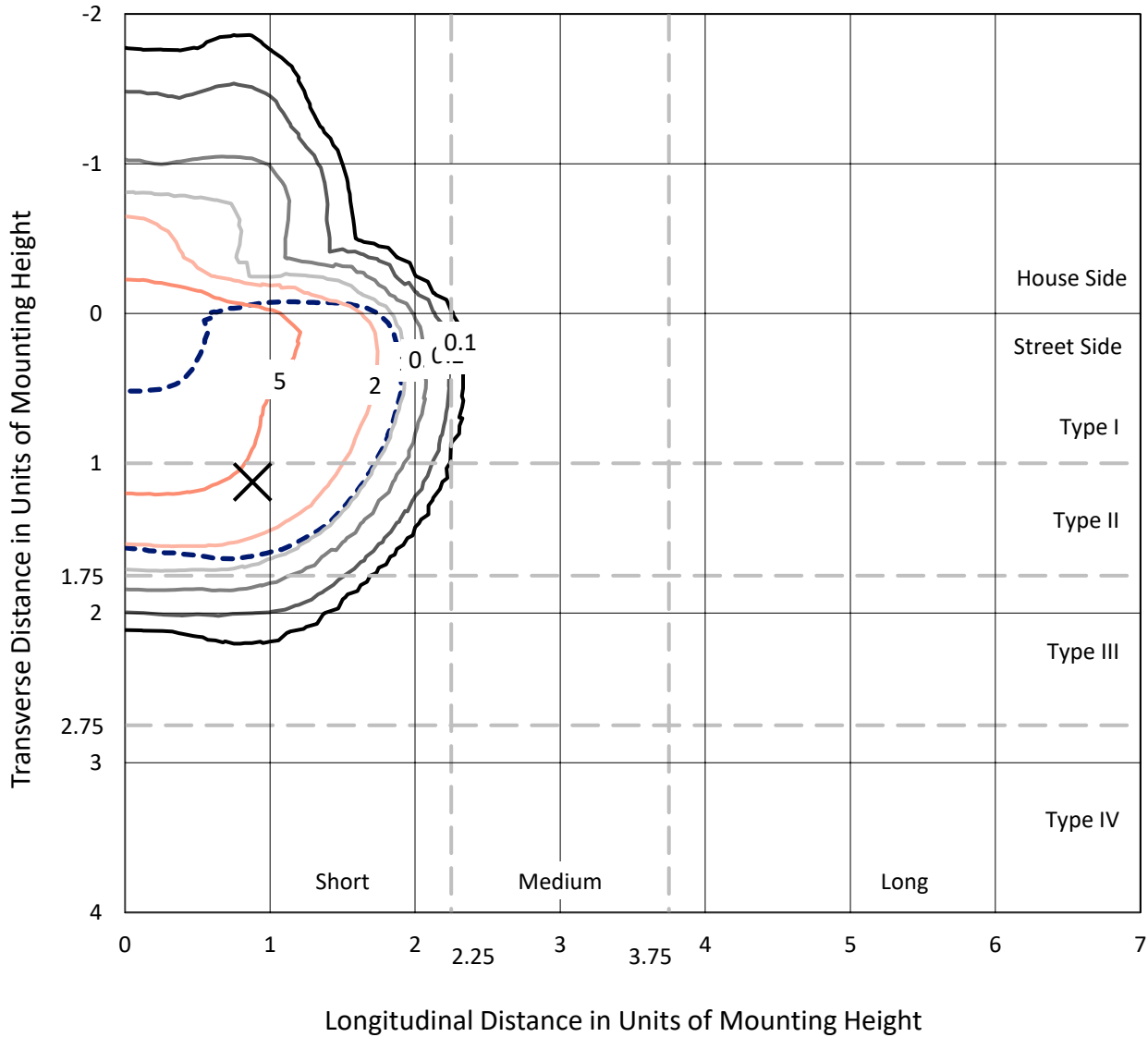
Lumens per Lamp: N/A  
Luminaire Lumens: 21047.4 lumens  
Efficiency: N/A  
Efficacy: 93.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 225.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

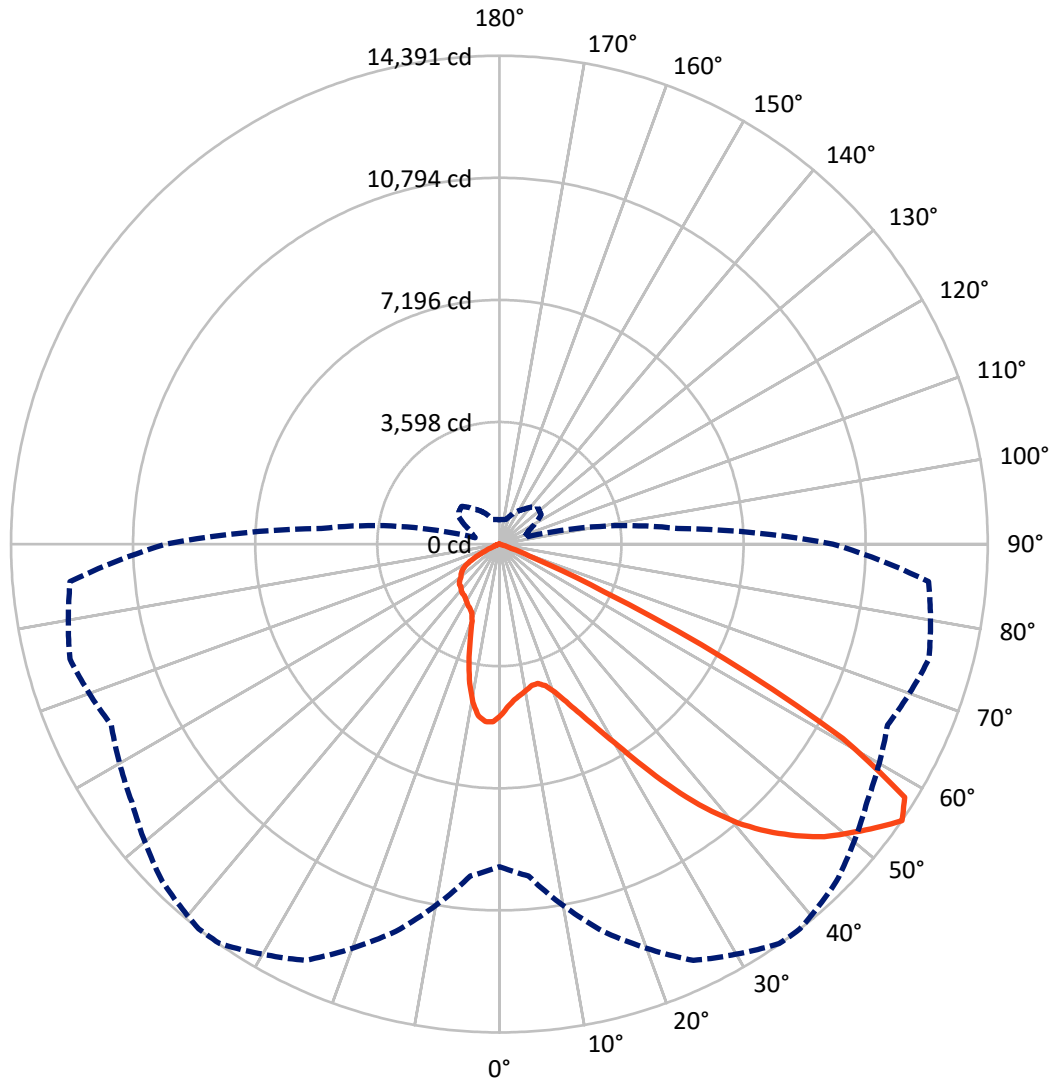
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 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	4100.7	0.0	4100.7
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	16946.7	0.0	16946.7
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	21047.4	0.0	21047.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	466.7	2.2
10°-20°	1256.4	6.0
20°-30°	2156.0	10.2
30°-40°	3575.9	17.0
40°-50°	5256.8	25.0
50°-60°	6142.7	29.2
60°-70°	2082.2	9.9
70°-80°	106.4	0.5
80°-90°	4.2	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°	21047.4	100.0
0°-180°	21047.4	100.0

**Coefficient of Utilization**



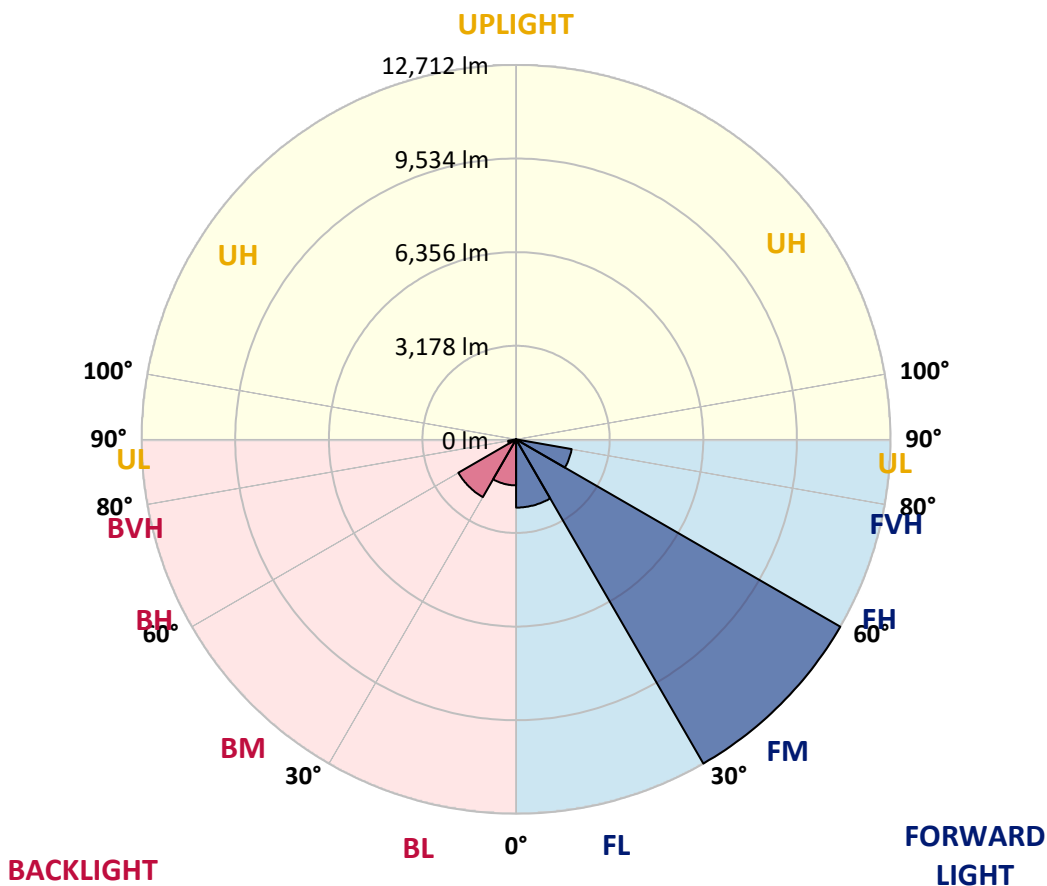
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2316.8	11.0			
FM (30°-60°)	12712.0	60.4			
FH (60°-80°)	1915.6	9.1			G2/5000
FVH (80°-90°)	2.2	0.0			G0/10
BL (0°-30°)	1562.3	7.4	B3/2500		
BM (30°-60°)	2263.4	10.8	B2/2500		
BH (60°-80°)	273.0	1.3	B1/500		G1/500
BVH (80°-90°)	2.0	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°	5047.3	5047.3	5047.3	5047.3	5047.3	5047.3	5047.3	5047.3	5047.3	5047.3	5047.3
2.5°	4700.9	4691.3	4710.5	4749.0	4785.1	4797.1	4833.2	4883.7	4915.0	4989.6	5049.7
5°	4489.2	4484.4	4503.6	4537.3	4585.4	4602.3	4657.6	4741.8	4826.0	4955.9	5083.4
7.5°	4296.7	4294.3	4323.2	4397.8	4467.5	4489.2	4556.5	4660.0	4773.1	4972.7	5160.4
10°	4044.1	4046.5	4101.9	4207.7	4335.2	4378.5	4486.8	4635.9	4782.7	5040.1	5299.9
12.5°	3962.3	3967.1	3996.0	4077.8	4217.3	4272.7	4424.2	4650.4	4838.0	5136.3	5480.4
15°	4162.0	4162.0	4137.9	4147.6	4210.1	4260.6	4419.4	4698.5	4931.9	5251.8	5658.4
17.5°	4549.3	4534.9	4474.8	4393.0	4371.3	4388.1	4515.7	4801.9	5064.2	5386.5	5860.5
20°	5073.8	5078.6	4960.7	4789.9	4652.8	4650.4	4727.4	4984.8	5254.2	5547.7	6079.4
22.5°	5708.9	5689.7	5533.3	5299.9	5061.8	5042.5	5073.8	5263.8	5528.5	5802.7	6348.9
25°	6445.1	6435.5	6214.1	5901.4	5586.2	5540.5	5540.5	5728.2	5920.6	6166.0	6671.2
27.5°	7214.9	7214.9	7000.8	6640.0	6221.3	6139.6	6127.5	6348.9	6476.4	6524.5	6943.1
30°	8006.4	7996.8	7785.1	7414.6	6967.1	6882.9	6849.3	7012.9	7104.3	6959.9	7282.3
32.5°	8810.0	8826.8	8612.7	8268.7	7869.3	7814.0	7710.5	7710.5	7785.1	7583.0	7816.4
35°	9673.6	9668.8	9500.4	9267.1	8925.4	8862.9	8692.1	8425.0	8538.1	8449.1	8555.0
37.5°	10436.3	10472.4	10390.6	10217.4	9940.7	9878.1	9596.7	9113.1	9199.7	9339.2	9433.1
40°	11210.9	11239.8	11321.6	11266.3	10917.4	10802.0	10301.6	9507.6	9603.9	10082.6	10352.1
42.5°	11971.2	11985.6	12151.6	12243.0	11776.3	11574.2	10835.6	9748.2	9849.3	10664.8	11136.4
45°	12454.7	12486.0	12760.3	13039.3	12534.1	12257.5	11300.0	10056.2	10099.5	11069.0	11716.2
47.5°	12435.5	12507.7	13022.5	13530.1	13186.1	12887.8	11858.1	10549.3	10477.2	11449.1	12098.7
50°	12048.1	12134.8	12873.3	13679.3	13655.2	13378.5	12478.8	11263.9	11037.7	11785.9	12146.8
52.5°	11244.6	11494.8	12611.1	13698.5	14032.9	13893.4	13246.2	12226.2	11795.5	12269.5	12223.8
55°	9507.6	9815.6	11814.8	13534.9	14374.5	14391.4	14052.2	13229.4	12618.3	13101.9	12697.7
57.5°	7217.3	7462.7	9093.9	12048.1	13809.2	14085.8	14364.9	13758.7	13125.9	13669.6	12808.4
60°	4349.7	4633.5	5694.5	8841.2	11153.2	11624.7	12719.4	12601.5	11838.8	12072.2	10503.6
62.5°	1763.4	1912.6	2629.5	4871.7	7020.1	7460.3	8509.2	8687.3	8499.6	8261.5	6370.5
65°	644.7	704.9	1053.7	2013.6	3228.6	3389.7	3943.1	4258.2	4518.1	3846.8	2369.7
67.5°	399.4	437.9	685.6	1034.5	1174.0	1092.2	1111.5	1325.6	1265.4	781.9	423.4
70°	295.9	327.2	536.5	716.9	473.9	365.7	247.8	264.6	238.2	209.3	206.9
72.5°	204.5	233.4	401.8	423.4	182.8	129.9	91.4	127.5	144.3	141.9	146.8
75°	134.7	156.4	252.6	166.0	45.7	36.1	31.3	67.4	86.6	86.6	89.0
77.5°	79.4	91.4	89.0	33.7	9.6	9.6	7.2	12.0	19.2	21.7	26.5
80°	9.6	7.2	4.8	4.8	4.8	4.8	4.8	4.8	7.2	7.2	7.2
82.5°	2.4	2.4	2.4	4.8	4.8	4.8	4.8	4.8	4.8	7.2	7.2
85°	0.0	0.0	2.4	2.4	4.8	4.8	4.8	4.8	4.8	7.2	7.2
87.5°	0.0	0.0	2.4	2.4	4.8	4.8	4.8	4.8	4.8	7.2	7.2
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°	5047.3	5047.3	5047.3	5047.3	5047.3	5047.3	5047.3	5047.3	5047.3	5047.3	5047.3
2.5°	5095.4	5078.6	5148.4	5198.9	5239.8	5259.0	5232.6	5230.2	5230.2	5177.2	5162.8
5°	5155.6	5162.8	5261.4	5304.7	5312.0	5287.9	5227.8	5186.9	5162.8	5107.5	5076.2
7.5°	5271.1	5295.1	5388.9	5381.7	5316.8	5206.1	5047.3	4924.6	4845.2	4758.6	4705.7
10°	5437.1	5482.8	5540.5	5439.5	5232.6	4951.1	4623.9	4390.5	4251.0	4152.4	4092.2
12.5°	5639.1	5684.9	5665.6	5427.4	4996.8	4494.0	4073.0	3736.2	3575.0	3486.0	3423.4
15°	5843.6	5872.5	5747.4	5283.1	4580.6	3904.6	3435.5	3101.1	2903.8	2831.6	2778.7
17.5°	6052.9	6045.7	5761.8	4999.2	4024.9	3240.6	2778.7	2550.1	2494.8	2482.8	2478.0
20°	6271.9	6206.9	5704.1	4592.6	3356.1	2583.8	2321.6	2336.0	2437.1	2485.2	2494.8
22.5°	6522.1	6358.5	5559.8	4041.7	2672.8	2153.2	2179.6	2321.6	2458.7	2523.7	2533.3
25°	6789.1	6498.0	5319.2	3334.4	2107.5	1980.0	2136.3	2299.9	2446.7	2526.1	2535.7
27.5°	6964.7	6531.7	4924.6	2622.3	1809.1	1912.6	2078.6	2235.0	2386.5	2473.1	2485.2
30°	7154.8	6517.3	4388.1	2020.9	1708.1	1854.9	1999.2	2141.1	2280.7	2376.9	2386.5
32.5°	7433.9	6507.6	3733.8	1640.7	1667.2	1809.1	1915.0	2032.9	2129.1	2184.4	2177.2
35°	7799.5	6495.6	2971.1	1479.6	1643.1	1773.1	1857.3	1912.6	1806.7	1773.1	1780.3
37.5°	8268.7	6524.5	2328.8	1412.2	1635.9	1763.4	1835.6	1676.8	1513.2	1450.7	1441.1
40°	8788.3	6599.1	1775.5	1385.7	1660.0	1787.5	1753.8	1491.6	1289.5	1166.8	1140.3
42.5°	9310.4	6680.9	1405.0	1376.1	1700.9	1854.9	1619.1	1356.9	1053.7	984.0	974.3
45°	9697.7	6666.4	1214.9	1359.3	1737.0	1893.3	1583.0	1164.4	940.7	909.4	911.8
47.5°	9892.6	6507.6	1111.5	1320.8	1751.4	1854.9	1494.0	1085.0	863.7	897.4	926.2
50°	9789.1	6096.2	1015.2	1246.2	1720.1	1804.3	1352.0	1024.9	825.2	964.7	1029.7
52.5°	9664.0	5591.0	909.4	1130.7	1645.6	1734.6	1296.7	1008.0	801.1	931.0	979.2
55°	9830.0	5271.1	736.2	952.7	1498.8	1571.0	1253.4	1005.6	745.8	724.1	716.9
57.5°	9596.7	4633.5	526.9	685.6	1150.0	1243.8	1222.1	988.8	661.6	659.2	668.8
60°	7417.0	2826.8	360.9	435.4	704.9	793.9	1109.1	945.5	570.2	524.5	526.9
62.5°	4214.9	1202.9	247.8	269.4	360.9	428.2	846.8	858.9	526.9	500.4	526.9
65°	1467.5	430.6	192.5	180.4	199.7	228.5	486.0	664.0	478.8	433.0	437.9
67.5°	303.1	214.1	170.8	149.2	149.2	149.2	247.8	413.8	394.5	344.0	348.8
70°	192.5	182.8	149.2	127.5	122.7	113.1	141.9	228.5	271.9	250.2	252.6
72.5°	141.9	139.5	117.9	103.4	91.4	81.8	89.0	113.1	139.5	144.3	146.8
75°	86.6	89.0	77.0	65.0	57.7	50.5	52.9	52.9	52.9	48.1	52.9
77.5°	26.5	28.9	24.1	19.2	16.8	16.8	16.8	14.4	12.0	7.2	7.2
80°	7.2	7.2	7.2	7.2	7.2	4.8	4.8	2.4	2.4	0.0	0.0
82.5°	7.2	7.2	7.2	7.2	4.8	4.8	2.4	2.4	0.0	0.0	0.0
85°	7.2	7.2	7.2	7.2	4.8	4.8	2.4	2.4	0.0	0.0	0.0
87.5°	7.2	7.2	7.2	7.2	4.8	4.8	2.4	2.4	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)