

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: P641030

Luminaire Tested: GWS-SA5F-722-U-T3R-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641030  
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-SA5F-722-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) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

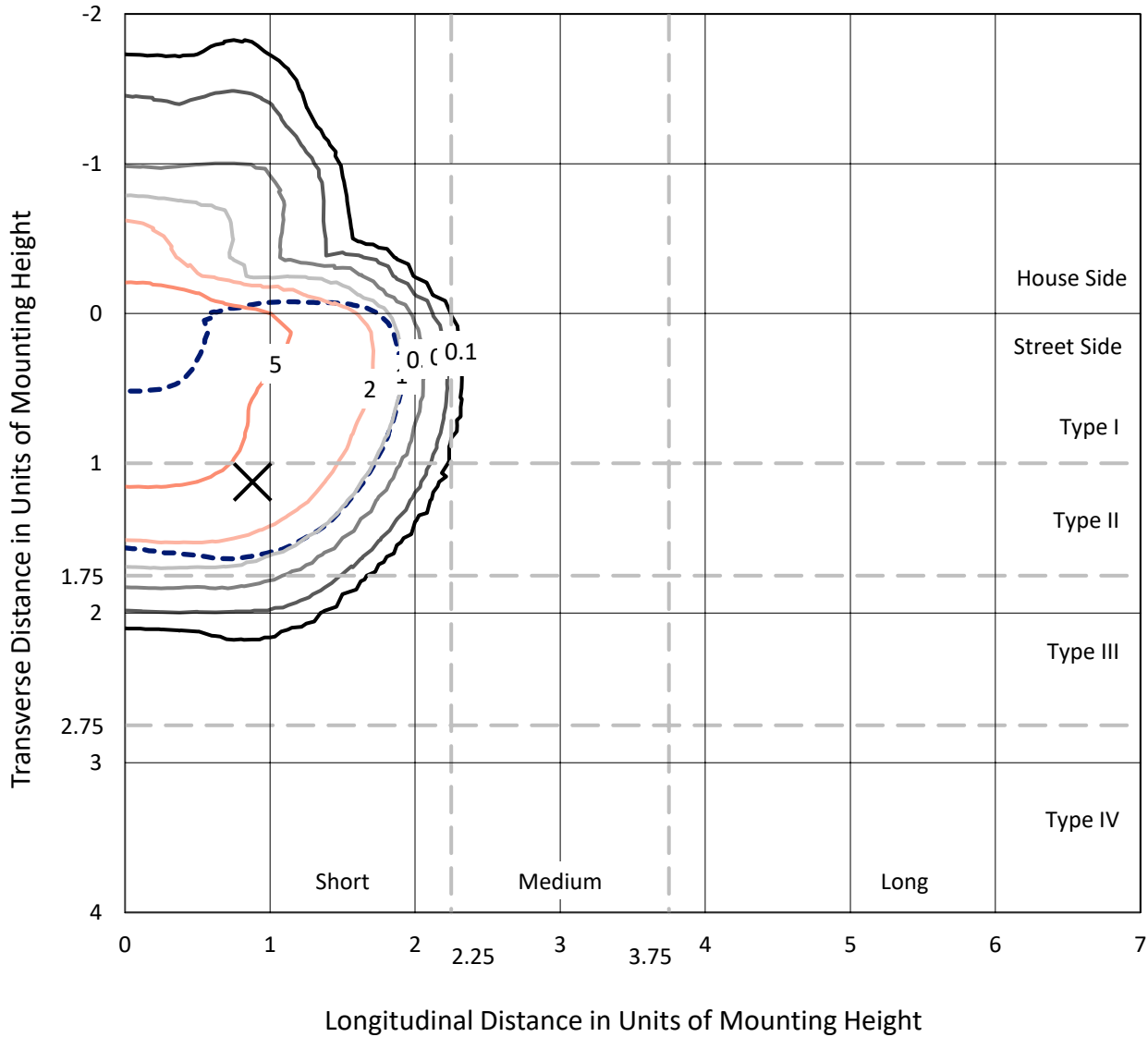
Lumens per Lamp: N/A  
Luminaire Lumens: 19282.5 lumens  
Efficiency: N/A  
Efficacy: 62.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G1  
  
Input Watts (W): 310.3  
Input Voltage (V): 120  
Input Current (Ain): 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

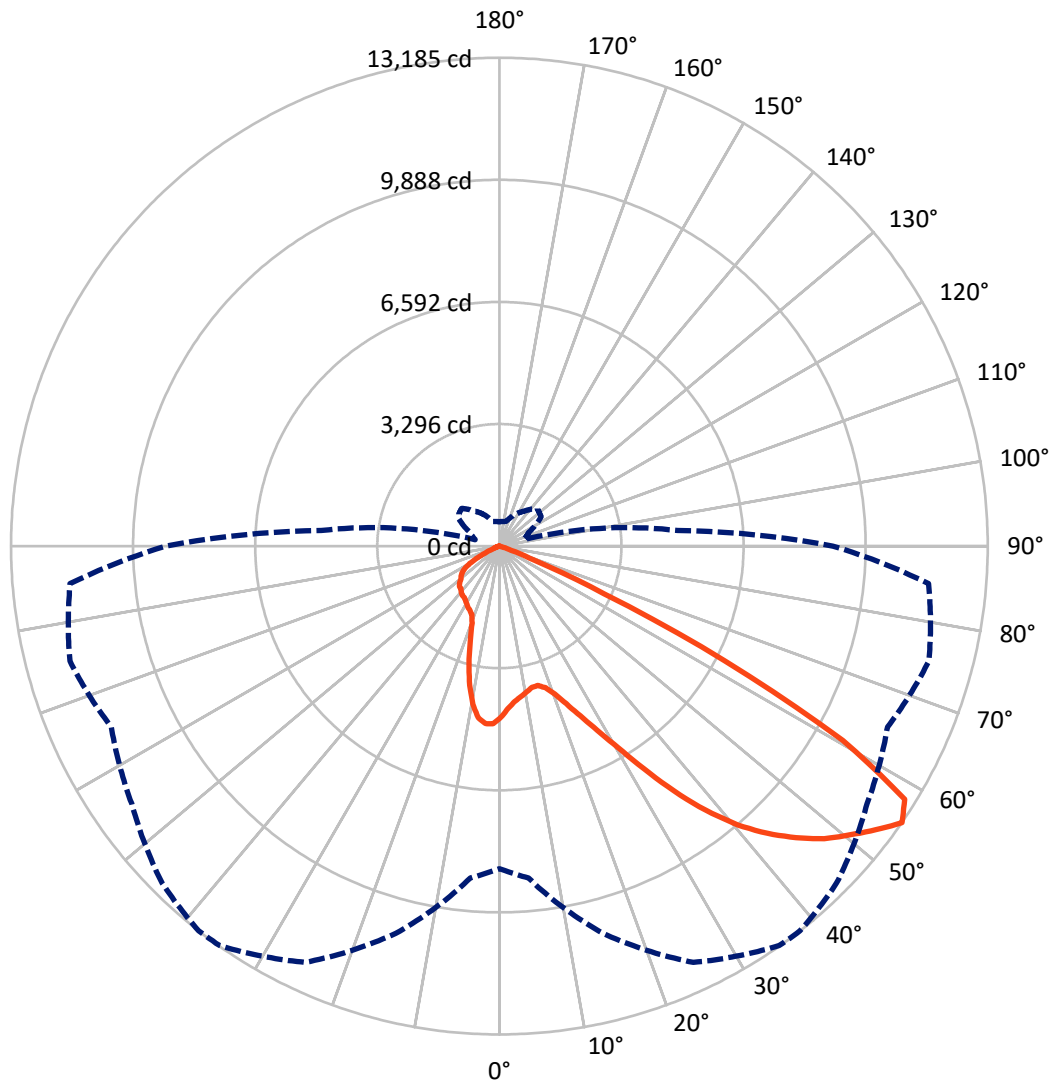
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 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	3756.8	0.0	3756.8
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	15525.7	0.0	15525.7
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	19282.5	0.0	19282.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	427.6	2.2
10°-20°	1151.0	6.0
20°-30°	1975.2	10.2
30°-40°	3276.1	17.0
40°-50°	4816.0	25.0
50°-60°	5627.6	29.2
60°-70°	1907.6	9.9
70°-80°	97.5	0.5
80°-90°	3.8	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°	19282.5	100.0
0°-180°	19282.5	100.0

**Coefficient of Utilization**



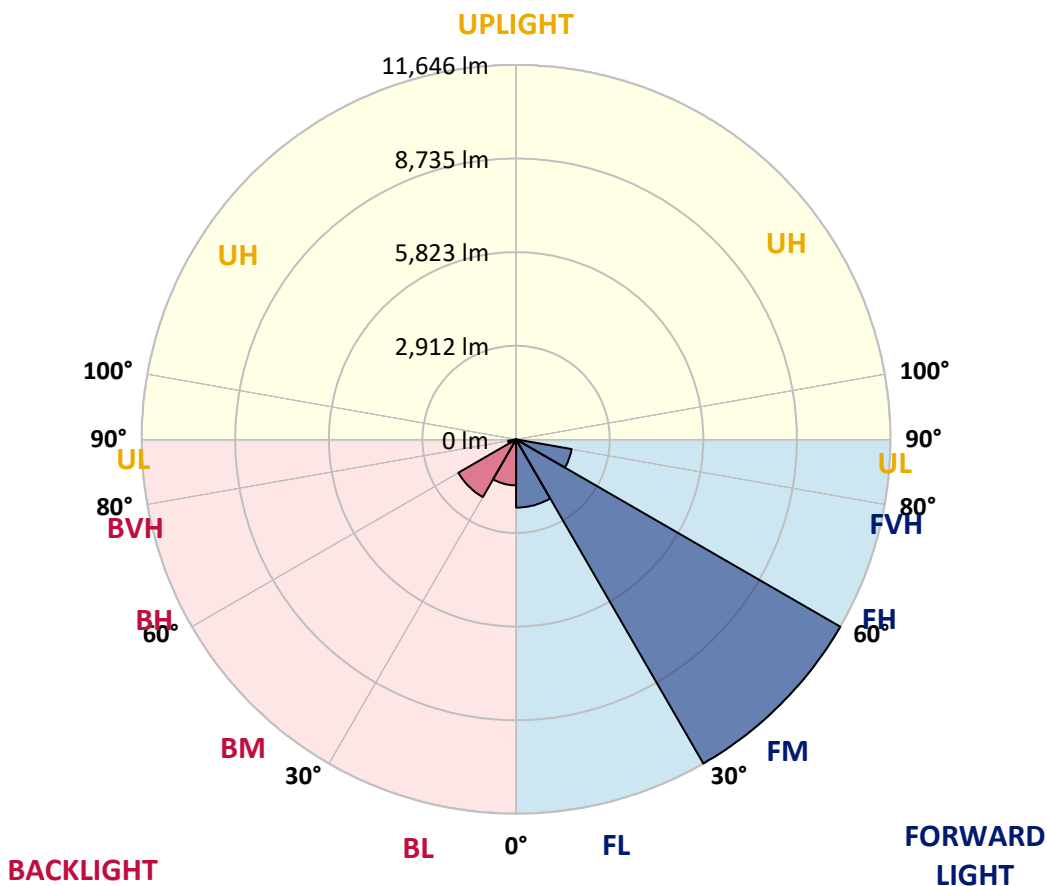
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2122.5	11.0			
FM (30°-60°)	11646.1	60.4			
FH (60°-80°)	1755.0	9.1			G1/1800
FVH (80°-90°)	2.0	0.0			G0/10
BL (0°-30°)	1431.3	7.4	B3/2500		
BM (30°-60°)	2073.6	10.8	B2/2500		
BH (60°-80°)	250.1	1.3	B1/500		G1/500
BVH (80°-90°)	1.8	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°	4624.1	4624.1	4624.1	4624.1	4624.1	4624.1	4624.1	4624.1	4624.1	4624.1	4624.1
2.5°	4306.7	4297.9	4315.5	4350.8	4383.9	4394.9	4427.9	4474.2	4502.9	4571.2	4626.3
5°	4112.8	4108.3	4126.0	4156.8	4200.9	4216.3	4267.0	4344.2	4421.3	4540.3	4657.2
7.5°	3936.4	3934.2	3960.7	4029.0	4092.9	4112.8	4174.5	4269.2	4372.8	4555.8	4727.7
10°	3705.0	3707.2	3757.9	3854.9	3971.7	4011.4	4110.5	4247.2	4381.6	4617.5	4855.5
12.5°	3630.1	3634.5	3660.9	3735.9	3863.7	3914.4	4053.2	4260.4	4432.3	4705.6	5020.8
15°	3813.0	3813.0	3791.0	3799.8	3857.1	3903.4	4048.8	4304.5	4518.3	4811.4	5183.9
17.5°	4167.9	4154.6	4099.5	4024.6	4004.8	4020.2	4137.0	4399.3	4639.5	4934.9	5369.1
20°	4648.3	4652.7	4544.7	4388.3	4262.6	4260.4	4331.0	4566.8	4813.6	5082.5	5569.6
22.5°	5230.2	5212.6	5069.3	4855.5	4637.3	4619.7	4648.3	4822.5	5064.9	5316.2	5816.5
25°	5904.6	5895.8	5693.1	5406.5	5117.8	5075.9	5075.9	5247.8	5424.2	5649.0	6111.8
27.5°	6609.9	6609.9	6413.8	6083.2	5699.7	5624.7	5613.7	5816.5	5933.3	5977.4	6360.9
30°	7335.1	7326.3	7132.3	6792.9	6382.9	6305.8	6274.9	6424.8	6508.6	6376.3	6671.7
32.5°	8071.2	8086.6	7890.5	7575.3	7209.4	7158.7	7064.0	7064.0	7132.3	6947.2	7160.9
35°	8862.5	8858.1	8703.8	8490.0	8177.0	8119.7	7963.2	7718.6	7822.2	7740.6	7837.6
37.5°	9561.2	9594.2	9519.3	9360.6	9107.1	9049.8	8791.9	8348.9	8428.3	8556.1	8642.1
40°	10270.9	10297.3	10372.2	10321.6	10002.0	9896.2	9437.7	8710.4	8798.6	9237.2	9484.0
42.5°	10967.3	10980.6	11132.6	11216.4	10788.8	10603.7	9927.0	8930.8	9023.4	9770.5	10202.5
45°	11410.4	11439.0	11690.3	11945.9	11483.1	11229.6	10352.4	9212.9	9252.6	10140.8	10733.7
47.5°	11392.7	11458.8	11930.5	12395.6	12080.4	11807.1	10863.7	9664.7	9598.6	10489.1	11084.2
50°	11037.9	11117.2	11793.9	12532.2	12510.2	12256.7	11432.4	10319.3	10112.2	10797.6	11128.2
52.5°	10301.7	10530.9	11553.6	12549.8	12856.2	12728.4	12135.5	11201.0	10806.4	11240.6	11198.8
55°	8710.4	8992.5	10824.1	12400.0	13169.2	13184.6	12873.8	12120.1	11560.2	12003.2	11633.0
57.5°	6612.1	6837.0	8331.3	11037.9	12651.2	12904.7	13160.4	12604.9	12025.3	12523.4	11734.3
60°	3984.9	4245.0	5217.0	8099.9	10218.0	10650.0	11652.8	11544.8	10846.1	11059.9	9622.9
62.5°	1615.6	1752.2	2409.0	4463.2	6431.4	6834.8	7795.7	7958.8	7786.9	7568.7	5836.3
65°	590.7	645.8	965.4	1844.8	2957.8	3105.5	3612.4	3901.2	4139.2	3524.3	2171.0
67.5°	365.9	401.1	628.2	947.7	1075.6	1000.6	1018.3	1214.4	1159.3	716.3	387.9
70°	271.1	299.8	491.5	656.8	434.2	335.0	227.0	242.4	218.2	191.8	189.5
72.5°	187.3	213.8	368.1	387.9	167.5	119.0	83.8	116.8	132.2	130.0	134.4
75°	123.4	143.3	231.4	152.1	41.9	33.1	28.7	61.7	79.3	79.3	81.5
77.5°	72.7	83.8	81.5	30.9	8.8	8.8	6.6	11.0	17.6	19.8	24.2
80°	8.8	6.6	4.4	4.4	4.4	4.4	4.4	4.4	6.6	6.6	6.6
82.5°	2.2	2.2	2.2	4.4	4.4	4.4	4.4	4.4	4.4	6.6	6.6
85°	0.0	0.0	2.2	2.2	4.4	4.4	4.4	4.4	4.4	6.6	6.6
87.5°	0.0	0.0	2.2	2.2	4.4	4.4	4.4	4.4	4.4	6.6	6.6
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°	4624.1	4624.1	4624.1	4624.1	4624.1	4624.1	4624.1	4624.1	4624.1	4624.1	4624.1
2.5°	4668.2	4652.7	4716.7	4762.9	4800.4	4818.0	4793.8	4791.6	4791.6	4743.1	4729.9
5°	4723.3	4729.9	4820.3	4859.9	4866.5	4844.5	4789.4	4751.9	4729.9	4679.2	4650.5
7.5°	4829.1	4851.1	4937.1	4930.5	4870.9	4769.6	4624.1	4511.7	4439.0	4359.6	4311.1
10°	4981.1	5023.0	5075.9	4983.4	4793.8	4535.9	4236.2	4022.4	3894.6	3804.2	3749.1
12.5°	5166.3	5208.2	5190.5	4972.3	4577.8	4117.2	3731.5	3422.9	3275.2	3193.7	3136.4
15°	5353.6	5380.1	5265.5	4840.1	4196.5	3577.2	3147.4	2841.0	2660.3	2594.2	2545.7
17.5°	5545.4	5538.8	5278.7	4580.0	3687.4	2968.9	2545.7	2336.3	2285.6	2274.6	2270.2
20°	5746.0	5686.4	5225.8	4207.5	3074.6	2367.1	2126.9	2140.1	2232.7	2276.8	2285.6
22.5°	5975.2	5825.3	5093.6	3702.8	2448.7	1972.6	1996.9	2126.9	2252.5	2312.0	2320.9
25°	6219.8	5953.1	4873.1	3054.8	1930.7	1813.9	1957.2	2107.1	2241.5	2314.2	2323.1
27.5°	6380.7	5984.0	4511.7	2402.4	1657.4	1752.2	1904.3	2047.6	2186.4	2265.8	2276.8
30°	6554.8	5970.8	4020.2	1851.4	1564.9	1699.3	1831.6	1961.6	2089.4	2177.6	2186.4
32.5°	6810.5	5961.9	3420.7	1503.2	1527.4	1657.4	1754.4	1862.4	1950.6	2001.3	1994.7
35°	7145.5	5950.9	2722.0	1355.5	1505.4	1624.4	1701.5	1752.2	1655.2	1624.4	1631.0
37.5°	7575.3	5977.4	2133.5	1293.8	1498.8	1615.6	1681.7	1536.2	1386.3	1329.0	1320.2
40°	8051.4	6045.7	1626.6	1269.5	1520.8	1637.6	1606.8	1366.5	1181.4	1069.0	1044.7
42.5°	8529.7	6120.6	1287.2	1260.7	1558.3	1699.3	1483.3	1243.1	965.4	901.5	892.6
45°	8884.5	6107.4	1113.0	1245.3	1591.3	1734.6	1450.3	1066.8	861.8	833.1	835.3
47.5°	9063.0	5961.9	1018.3	1210.0	1604.5	1699.3	1368.7	994.0	791.3	822.1	848.6
50°	8968.3	5585.1	930.1	1141.7	1575.9	1653.0	1238.7	938.9	756.0	883.8	943.3
52.5°	8853.7	5122.2	833.1	1035.9	1507.6	1589.1	1188.0	923.5	733.9	853.0	897.0
55°	9005.7	4829.1	674.4	872.8	1373.1	1439.2	1148.3	921.3	683.3	663.4	656.8
57.5°	8791.9	4245.0	482.7	628.2	1053.5	1139.5	1119.7	905.9	606.1	603.9	612.7
60°	6795.1	2589.8	330.6	398.9	645.8	727.3	1016.1	866.2	522.4	480.5	482.7
62.5°	3861.5	1102.0	227.0	246.9	330.6	392.3	775.8	786.8	482.7	458.4	482.7
65°	1344.5	394.5	176.3	165.3	182.9	209.4	445.2	608.3	438.6	396.7	401.1
67.5°	277.7	196.2	156.5	136.7	136.7	136.7	227.0	379.1	361.5	315.2	319.6
70°	176.3	167.5	136.7	116.8	112.4	103.6	130.0	209.4	249.1	229.2	231.4
72.5°	130.0	127.8	108.0	94.8	83.8	74.9	81.5	103.6	127.8	132.2	134.4
75°	79.3	81.5	70.5	59.5	52.9	46.3	48.5	48.5	48.5	44.1	48.5
77.5°	24.2	26.4	22.0	17.6	15.4	15.4	15.4	13.2	11.0	6.6	6.6
80°	6.6	6.6	6.6	6.6	6.6	4.4	4.4	2.2	2.2	0.0	0.0
82.5°	6.6	6.6	6.6	6.6	4.4	4.4	2.2	2.2	0.0	0.0	0.0
85°	6.6	6.6	6.6	6.6	4.4	4.4	2.2	2.2	0.0	0.0	0.0
87.5°	6.6	6.6	6.6	6.6	4.4	4.4	2.2	2.2	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)