

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: P637785

Luminaire Tested: GWS-SA4D-740-U-T3R-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P637785  
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-SA4D-740-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) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

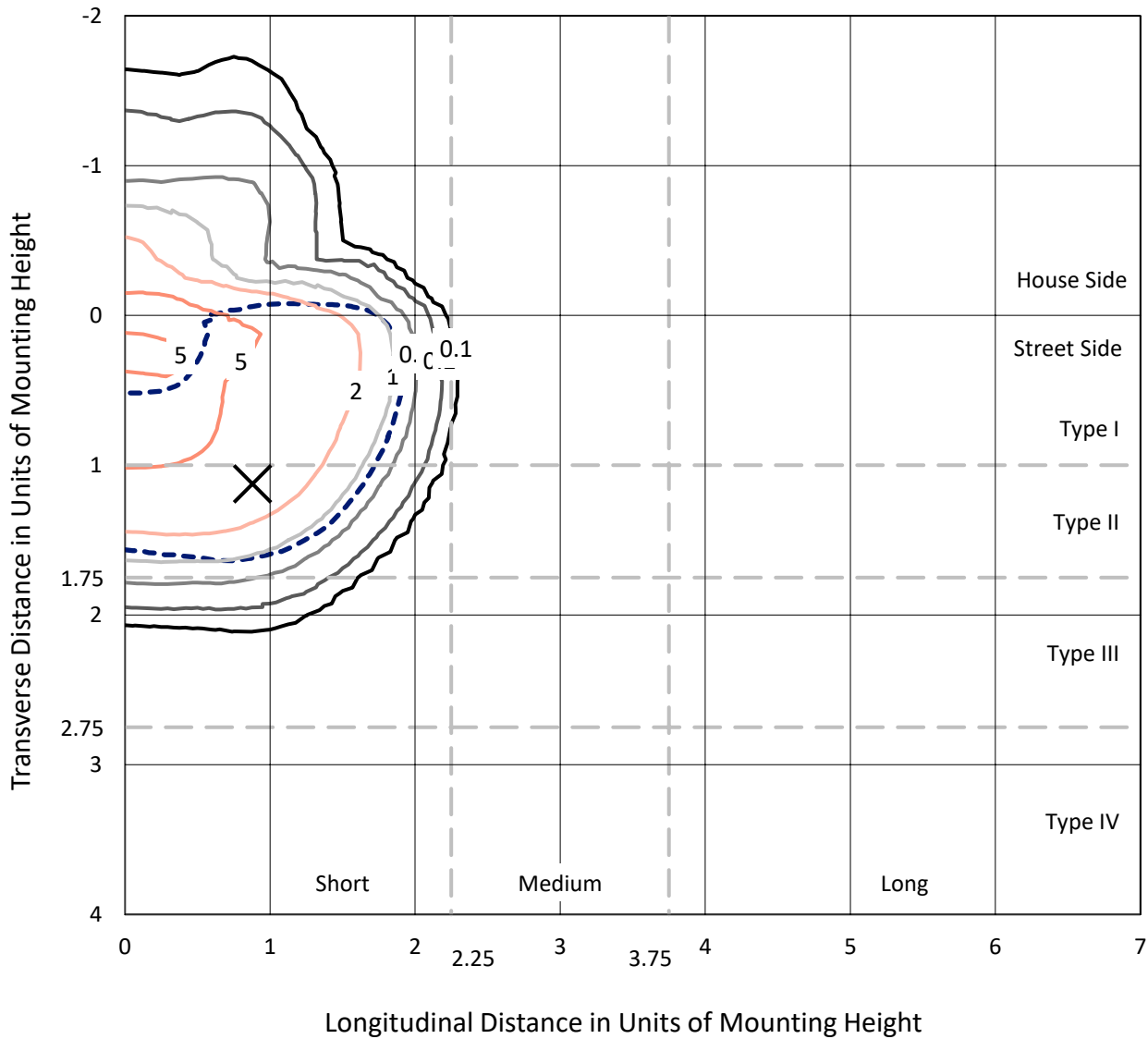
Lumens per Lamp: N/A  
Luminaire Lumens: 15359.2 lumens  
Efficiency: N/A  
Efficacy: 94.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G1  
  
Input Watts (W): 162.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

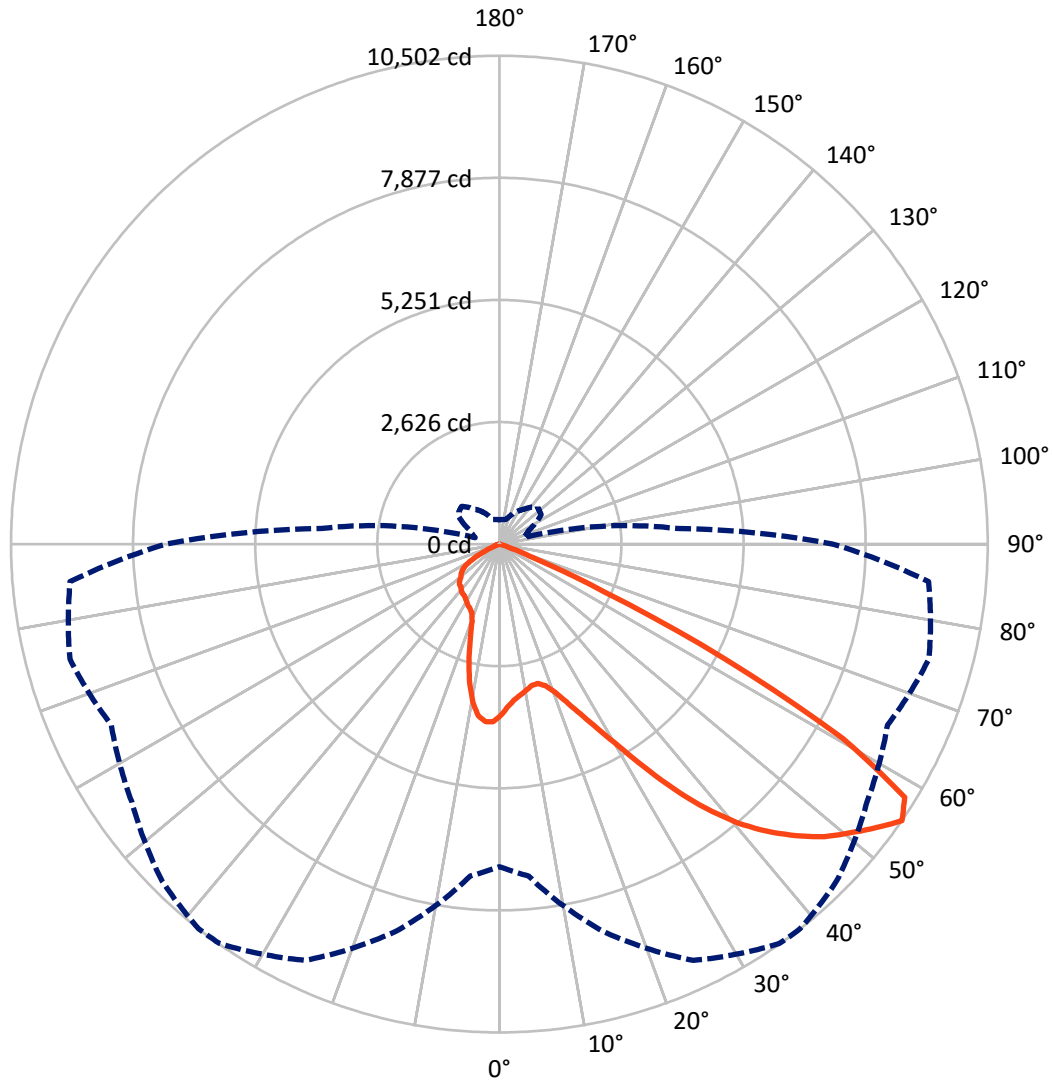
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 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	2992.5	0.0	2992.5
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	12366.8	0.0	12366.8
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	15359.2	0.0	15359.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	340.6	2.2
10°-20°	916.8	6.0
20°-30°	1573.4	10.2
30°-40°	2609.5	17.0
40°-50°	3836.1	25.0
50°-60°	4482.6	29.2
60°-70°	1519.5	9.9
70°-80°	77.7	0.5
80°-90°	3.1	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°	15359.2	100.0
0°-180°	15359.2	100.0

**Coefficient of Utilization**



REPORT NUMBER: P637785

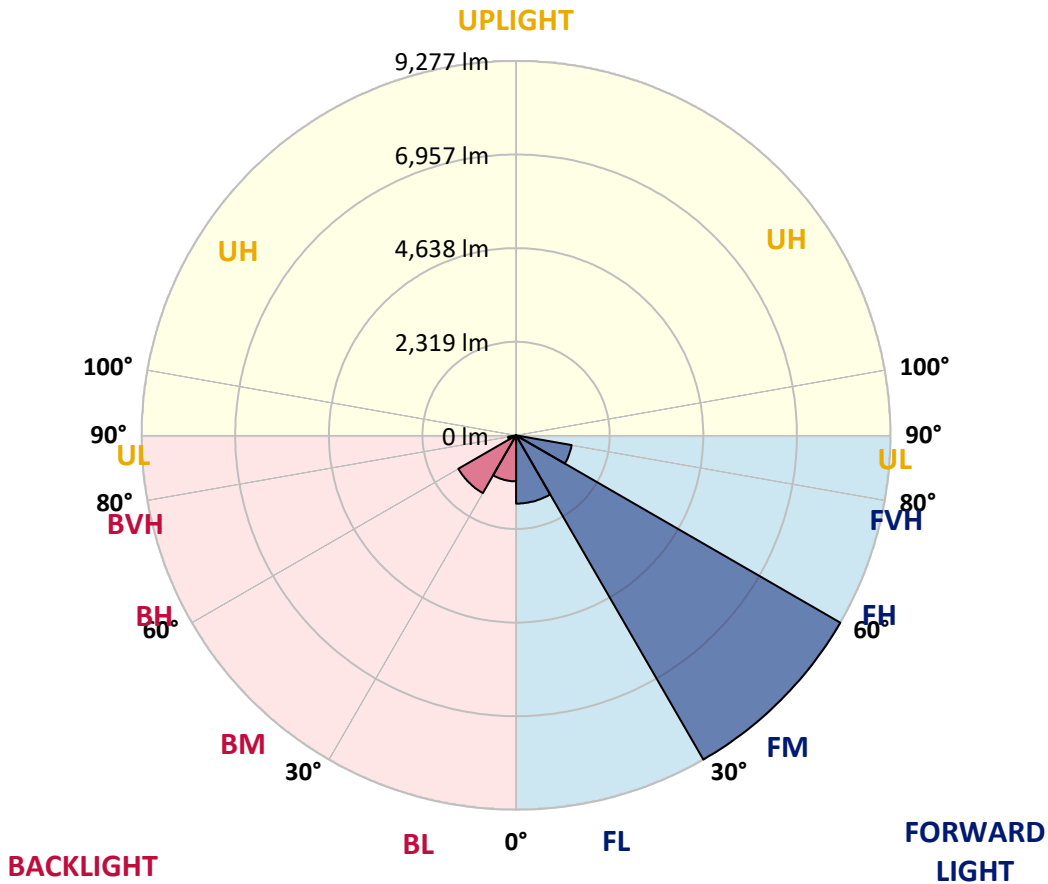
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1690.7	11.0			
FM (30°-60°)	9276.5	60.4			
FH (60°-80°)	1397.9	9.1			G1/1800
FVH (80°-90°)	1.6	0.0			G0/10
BL (0°-30°)	1140.1	7.4	B3/2500		
BM (30°-60°)	1651.7	10.8	B2/2500		
BH (60°-80°)	199.2	1.3	B1/500		G1/500
BVH (80°-90°)	1.4	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





REPORT NUMBER: P637785

CATALOG NUMBER: GWS-SA4D-740-U-T3R-W-GRSBK

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	3683.3	3683.3	3683.3	3683.3	3683.3	3683.3	3683.3	3683.3	3683.3	3683.3	3683.3
2.5°	3430.4	3423.4	3437.5	3465.6	3491.9	3500.7	3527.0	3563.9	3586.7	3641.1	3685.0
5°	3276.0	3272.4	3286.5	3311.1	3346.2	3358.5	3398.8	3460.3	3521.7	3616.5	3709.6
7.5°	3135.5	3133.8	3154.8	3209.2	3260.2	3276.0	3325.1	3400.6	3483.1	3628.8	3765.8
10°	2951.2	2952.9	2993.3	3070.5	3163.6	3195.2	3274.2	3383.0	3490.1	3678.0	3867.6
12.5°	2891.5	2895.0	2916.1	2975.7	3077.6	3117.9	3228.6	3393.6	3530.5	3748.2	3999.3
15°	3037.2	3037.2	3019.6	3026.7	3072.3	3109.2	3225.0	3428.7	3599.0	3832.5	4129.2
17.5°	3319.8	3309.3	3265.4	3205.7	3189.9	3202.2	3295.3	3504.2	3695.5	3930.8	4276.6
20°	3702.6	3706.1	3620.1	3495.4	3395.3	3393.6	3449.8	3637.6	3834.2	4048.4	4436.4
22.5°	4166.0	4152.0	4037.9	3867.6	3693.8	3679.7	3702.6	3841.3	4034.4	4234.5	4633.0
25°	4703.3	4696.2	4534.7	4306.5	4076.5	4043.2	4043.2	4180.1	4320.5	4499.6	4868.3
27.5°	5265.1	5265.1	5108.8	4845.5	4540.0	4480.3	4471.5	4633.0	4726.1	4761.2	5066.7
30°	5842.6	5835.6	5681.1	5410.8	5084.2	5022.8	4998.2	5117.6	5184.3	5079.0	5314.2
32.5°	6429.0	6441.3	6285.1	6034.0	5742.6	5702.2	5626.7	5626.7	5681.1	5533.7	5704.0
35°	7059.3	7055.8	6932.9	6762.6	6513.3	6467.6	6343.0	6148.1	6230.6	6165.7	6242.9
37.5°	7615.8	7642.1	7582.4	7456.0	7254.1	7208.5	7003.1	6650.2	6713.4	6815.2	6883.7
40°	8181.1	8202.2	8261.9	8221.5	7966.9	7882.7	7517.5	6938.1	7008.4	7357.7	7554.4
42.5°	8735.9	8746.4	8867.5	8934.3	8593.7	8446.2	7907.2	7113.7	7187.4	7782.6	8126.7
45°	9088.8	9111.6	9311.7	9515.4	9146.7	8944.8	8246.1	7338.4	7370.0	8077.5	8549.8
47.5°	9074.7	9127.4	9503.1	9873.5	9622.5	9404.8	8653.4	7698.3	7645.6	8354.9	8828.9
50°	8792.1	8855.3	9394.2	9982.4	9964.8	9762.9	9106.3	8219.7	8054.7	8600.7	8864.0
52.5°	8205.7	8388.3	9202.9	9996.4	10240.4	10138.6	9666.3	8922.0	8607.7	8953.6	8920.2
55°	6938.1	7162.9	8621.8	9877.0	10489.7	10502.0	10254.5	9654.1	9208.1	9561.0	9266.1
57.5°	5266.8	5445.9	6636.2	8792.1	10077.2	10279.1	10482.7	10040.3	9578.6	9975.3	9346.8
60°	3174.1	3381.3	4155.5	6451.8	8139.0	8483.1	9281.9	9195.8	8639.3	8809.6	7665.0
62.5°	1286.9	1395.7	1918.9	3555.1	5122.8	5444.1	6209.6	6339.5	6202.5	6028.7	4648.8
65°	470.5	514.4	769.0	1469.4	2356.0	2473.6	2877.4	3107.4	3297.0	2807.2	1729.3
67.5°	291.4	319.5	500.3	754.9	856.7	797.0	811.1	967.3	923.4	570.6	309.0
70°	215.9	238.8	391.5	523.2	345.9	266.9	180.8	193.1	173.8	152.7	151.0
72.5°	149.2	170.3	293.2	309.0	133.4	94.8	66.7	93.0	105.3	103.6	107.1
75°	98.3	114.1	184.3	121.1	33.4	26.3	22.8	49.2	63.2	63.2	65.0
77.5°	57.9	66.7	65.0	24.6	7.0	7.0	5.3	8.8	14.0	15.8	19.3
80°	7.0	5.3	3.5	3.5	3.5	3.5	3.5	3.5	5.3	5.3	5.3
82.5°	1.8	1.8	1.8	3.5	3.5	3.5	3.5	3.5	3.5	5.3	5.3
85°	0.0	0.0	1.8	1.8	3.5	3.5	3.5	3.5	3.5	5.3	5.3
87.5°	0.0	0.0	1.8	1.8	3.5	3.5	3.5	3.5	3.5	5.3	5.3
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°	3683.3	3683.3	3683.3	3683.3	3683.3	3683.3	3683.3	3683.3	3683.3	3683.3	3683.3
2.5°	3718.4	3706.1	3757.0	3793.9	3823.7	3837.7	3818.4	3816.7	3816.7	3778.1	3767.5
5°	3762.3	3767.5	3839.5	3871.1	3876.4	3858.8	3814.9	3785.1	3767.5	3727.1	3704.3
7.5°	3846.5	3864.1	3932.5	3927.3	3879.9	3799.1	3683.3	3593.7	3535.8	3472.6	3434.0
10°	3967.7	4001.0	4043.2	3969.4	3818.4	3613.0	3374.3	3204.0	3102.1	3030.2	2986.3
12.5°	4115.1	4148.5	4134.4	3960.6	3646.4	3279.5	2972.2	2726.5	2608.8	2543.9	2498.2
15°	4264.4	4285.4	4194.1	3855.3	3342.7	2849.3	2507.0	2263.0	2119.0	2066.3	2027.7
17.5°	4417.1	4411.8	4204.7	3648.1	2937.1	2364.8	2027.7	1860.9	1820.6	1811.8	1808.3
20°	4576.9	4529.5	4162.5	3351.4	2449.1	1885.5	1694.2	1704.7	1778.4	1813.5	1820.6
22.5°	4759.4	4640.1	4057.2	2949.4	1950.5	1571.3	1590.6	1694.2	1794.2	1841.6	1848.6
25°	4954.3	4741.9	3881.6	2433.3	1537.9	1444.9	1559.0	1678.4	1785.4	1843.4	1850.4
27.5°	5082.5	4766.5	3593.7	1913.6	1320.2	1395.7	1516.8	1631.0	1741.6	1804.8	1813.5
30°	5221.2	4755.9	3202.2	1474.7	1246.5	1353.6	1458.9	1562.5	1664.3	1734.5	1741.6
32.5°	5424.8	4748.9	2724.7	1197.3	1216.6	1320.2	1397.5	1483.5	1553.7	1594.1	1588.8
35°	5691.7	4740.1	2168.2	1079.7	1199.1	1293.9	1355.3	1395.7	1318.5	1293.9	1299.1
37.5°	6034.0	4761.2	1699.4	1030.5	1193.8	1286.9	1339.5	1223.7	1104.3	1058.6	1051.6
40°	6413.2	4815.6	1295.6	1011.2	1211.4	1304.4	1279.8	1088.5	941.0	851.5	832.2
42.5°	6794.2	4875.3	1025.3	1004.2	1241.2	1353.6	1181.5	990.2	769.0	718.0	711.0
45°	7076.8	4864.8	886.6	991.9	1267.5	1381.7	1155.2	849.7	686.4	663.6	665.4
47.5°	7219.0	4748.9	811.1	963.8	1278.1	1353.6	1090.2	791.8	630.3	654.8	675.9
50°	7143.5	4448.7	740.9	909.4	1255.3	1316.7	986.6	747.9	602.2	704.0	751.4
52.5°	7052.3	4080.0	663.6	825.1	1200.8	1265.8	946.3	735.6	584.6	679.4	714.5
55°	7173.4	3846.5	537.2	695.2	1093.7	1146.4	914.7	733.8	544.2	528.4	523.2
57.5°	7003.1	3381.3	384.5	500.3	839.2	907.6	891.8	721.6	482.8	481.0	488.1
60°	5412.5	2062.8	263.3	317.8	514.4	579.3	809.3	690.0	416.1	382.7	384.5
62.5°	3075.8	877.8	180.8	196.6	263.3	312.5	618.0	626.8	384.5	365.2	384.5
65°	1070.9	314.3	140.4	131.7	145.7	166.8	354.6	484.5	349.4	316.0	319.5
67.5°	221.2	156.2	124.6	108.8	108.8	108.8	180.8	302.0	287.9	251.1	254.6
70°	140.4	133.4	108.8	93.0	89.5	82.5	103.6	166.8	198.4	182.6	184.3
72.5°	103.6	101.8	86.0	75.5	66.7	59.7	65.0	82.5	101.8	105.3	107.1
75°	63.2	65.0	56.2	47.4	42.1	36.9	38.6	38.6	38.6	35.1	38.6
77.5°	19.3	21.1	17.6	14.0	12.3	12.3	12.3	10.5	8.8	5.3	5.3
80°	5.3	5.3	5.3	5.3	5.3	3.5	3.5	1.8	1.8	0.0	0.0
82.5°	5.3	5.3	5.3	5.3	3.5	3.5	1.8	1.8	0.0	0.0	0.0
85°	5.3	5.3	5.3	5.3	3.5	3.5	1.8	1.8	0.0	0.0	0.0
87.5°	5.3	5.3	5.3	5.3	3.5	3.5	1.8	1.8	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)