

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: P641443

Luminaire Tested: GWS-SA5F-830-U-SL3-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641443  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-32)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5F-830-U-SL3-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (80) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

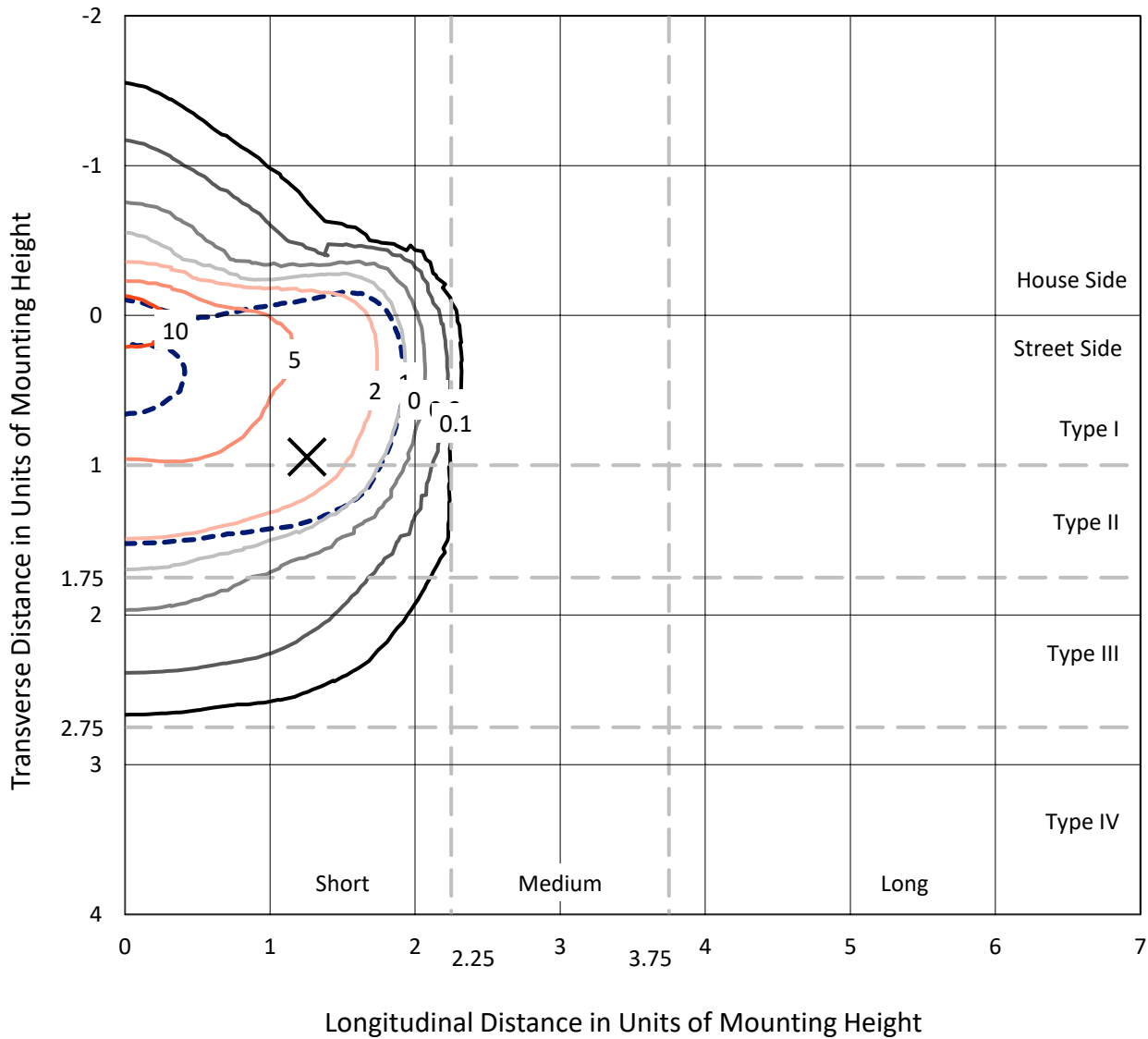
Lumens per Lamp: N/A  
Luminaire Lumens: 19393.1 lumens  
Efficiency: N/A  
Efficacy: 62.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 310.3  
Input Voltage (V): 120  
Input Current (Ain): 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

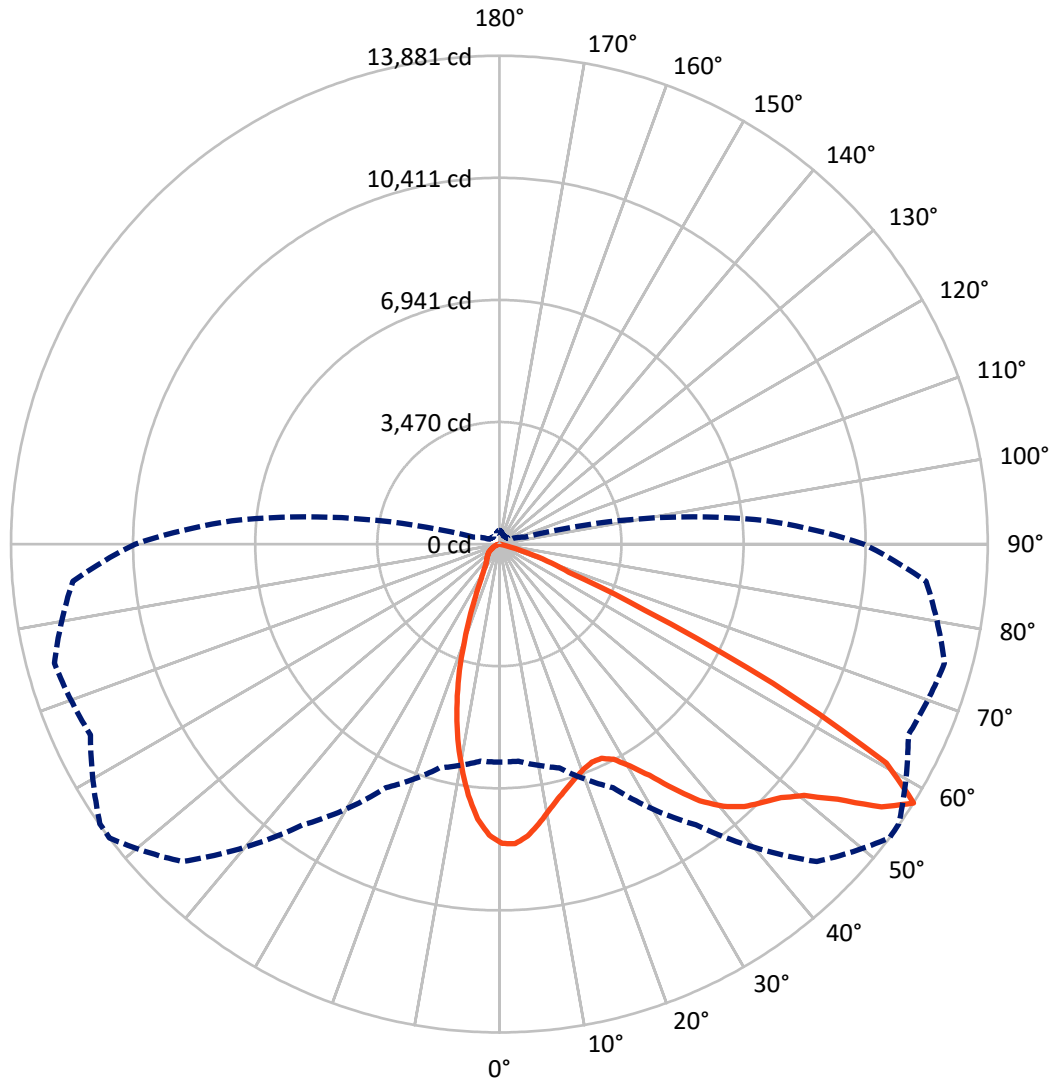
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3203.5	0.0	3203.5
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	16189.6	0.0	16189.6
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	19393.1	0.0	19393.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	727.8	3.8
10°-20°	1597.9	8.2
20°-30°	2081.6	10.7
30°-40°	3019.4	15.6
40°-50°	4356.8	22.5
50°-60°	5269.1	27.2
60°-70°	2147.5	11.1
70°-80°	193.0	1.0
80°-90°	0.0	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°	19393.1	100.0
0°-180°	19393.1	100.0

**Coefficient of Utilization**



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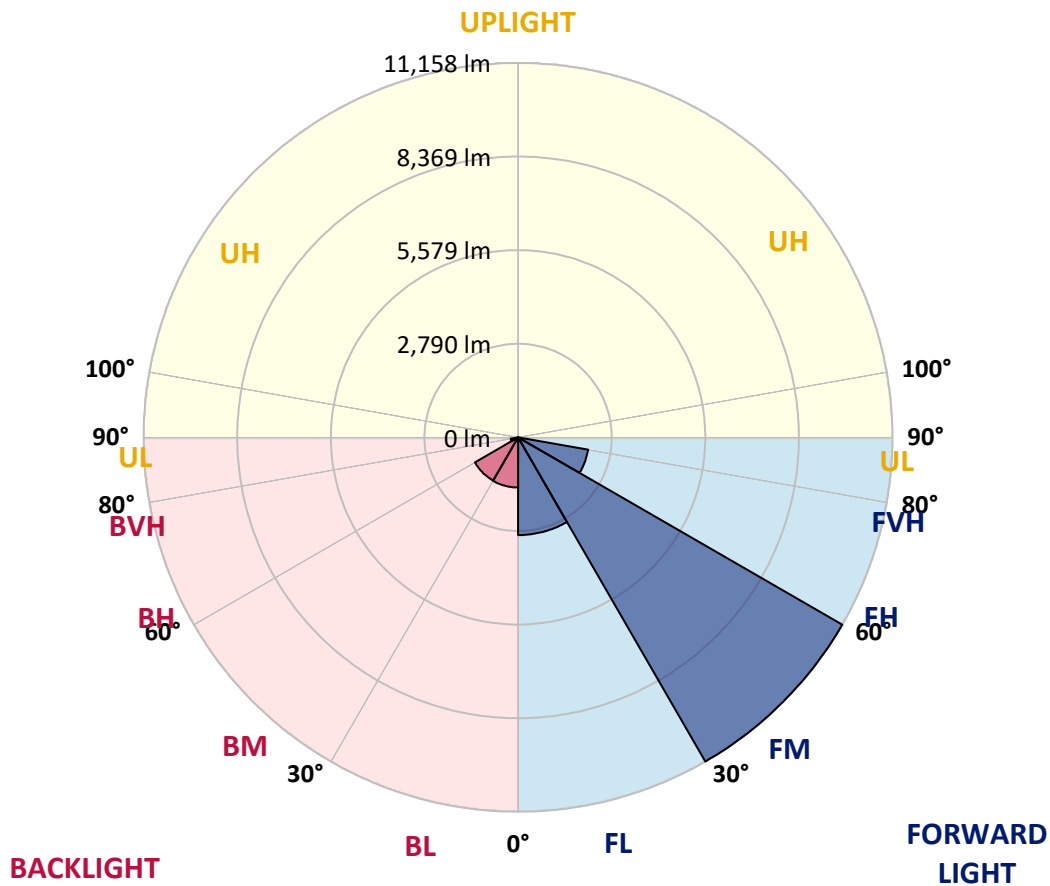
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2912.2	15.0			
FM (30°-60°)	11158.4	57.5			
FH (60°-80°)	2119.0	10.9			G2/5000
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	1495.1	7.7	B3/2500		
BM (30°-60°)	1486.9	7.7	B2/2500		
BH (60°-80°)	221.4	1.1	B1/500		G1/500
BVH (80°-90°)	0.0	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°	45°	53°	55°	65°	75°	85°
0°	8506.9	8506.9	8506.9	8506.9	8506.9	8506.9	8506.9	8506.9	8506.9	8506.9	8506.9
2.5°	8388.1	8407.1	8440.4	8483.2	8511.7	8525.9	8525.9	8566.3	8540.2	8518.8	8495.0
5°	8029.2	8048.2	8093.3	8162.3	8231.2	8281.1	8338.2	8380.9	8397.6	8397.6	8357.2
7.5°	7522.9	7549.0	7577.6	7672.6	7822.4	7934.1	8031.5	8093.3	8183.7	8212.2	8155.1
10°	6978.6	7004.7	7068.9	7199.6	7370.8	7537.1	7703.5	7782.0	7936.5	8017.3	7953.1
12.5°	6517.5	6529.3	6614.9	6771.8	6990.5	7218.6	7420.7	7501.5	7720.2	7841.4	7765.3
15°	6137.2	6144.3	6229.9	6403.4	6655.3	6935.8	7190.1	7273.3	7541.9	7724.9	7610.8
17.5°	5849.5	5851.9	5925.6	6113.4	6377.2	6688.6	6990.5	7092.7	7439.7	7660.7	7489.6
20°	5704.6	5697.4	5749.7	5913.7	6163.3	6474.7	6831.2	6957.2	7382.6	7651.2	7396.9
22.5°	5706.9	5690.3	5711.7	5828.2	6039.7	6332.1	6731.4	6874.0	7387.4	7691.6	7318.5
25°	5842.4	5818.6	5823.4	5885.2	6034.9	6301.2	6745.6	6897.8	7482.5	7827.1	7289.9
27.5°	6070.6	6044.5	6044.5	6075.4	6156.2	6398.6	6923.9	7097.4	7736.8	8091.0	7349.4
30°	6365.3	6339.2	6329.7	6360.6	6427.1	6650.6	7320.8	7501.5	8171.8	8523.6	7539.5
32.5°	6702.9	6672.0	6688.6	6731.4	6795.6	7104.5	7831.9	8071.9	8716.1	9105.9	7881.8
35°	7059.4	7033.2	7109.3	7202.0	7301.8	7734.4	8537.8	8747.0	9384.0	9830.9	8404.7
37.5°	7399.3	7387.4	7546.7	7741.6	7948.3	8490.3	9255.6	9417.3	9956.8	10620.0	9044.1
40°	7739.2	7736.8	8010.1	8352.4	8682.8	9243.8	9800.0	9933.1	10306.2	11233.2	9657.3
42.5°	8119.5	8119.5	8497.4	8953.8	9393.5	9880.8	10199.3	10258.7	10463.1	11587.4	10118.5
45°	8483.2	8504.5	8941.9	9471.9	9992.5	10377.5	10475.0	10479.7	10527.3	11796.5	10501.1
47.5°	8770.8	8789.8	9312.7	9923.6	10484.5	10755.5	10769.7	10748.3	10696.0	11996.2	10795.9
50°	9003.7	9032.2	9578.9	10225.4	10822.0	11119.1	11228.5	11207.1	11074.0	12210.1	11002.7
52.5°	9117.8	9158.2	9671.6	10375.2	11197.6	11741.9	12046.1	12096.0	11639.7	12329.0	11199.9
55°	8205.1	8264.5	8737.5	9700.1	11406.7	12704.5	13182.3	13172.8	12252.9	12683.1	11680.1
57.5°	6196.6	6191.8	6584.0	7637.0	9742.9	12759.2	13881.1	13862.1	12825.7	13094.3	12172.1
60°	4219.0	4190.5	4295.1	4803.7	6812.2	10394.2	12633.2	12889.9	12419.3	12096.0	10334.8
62.5°	3472.6	3446.5	3413.2	3273.0	3912.4	6474.7	8728.0	9117.8	9056.0	8407.1	6481.8
65°	2842.8	2864.2	2956.9	2897.4	2721.5	3320.5	4530.4	4760.9	4352.1	3662.8	2265.2
67.5°	2096.4	2105.9	2227.2	2540.9	2445.8	2210.5	2132.1	2170.1	1271.6	584.7	377.9
70°	1238.4	1245.5	1357.2	1777.9	1984.7	1697.1	1440.4	1419.0	503.9	156.9	171.1
72.5°	701.2	686.9	708.3	846.2	1081.5	900.8	741.6	675.0	152.1	87.9	87.9
75°	332.8	323.3	278.1	261.5	237.7	152.1	95.1	80.8	38.0	35.7	35.7
77.5°	2.4	7.1	4.8	7.1	7.1	4.8	2.4	2.4	7.1	7.1	9.5
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8506.9	8506.9	8506.9	8506.9	8506.9	8506.9	8506.9	8506.9	8506.9	8506.9	8506.9
2.5°	8452.3	8380.9	8364.3	8359.6	8293.0	8221.7	8148.0	8119.5	8076.7	8050.6	8071.9
5°	8293.0	8190.8	8100.5	8017.3	7869.9	7708.3	7568.0	7477.7	7392.2	7335.1	7349.4
7.5°	8067.2	7934.1	7727.3	7515.8	7244.8	7002.3	6731.4	6565.0	6410.5	6324.9	6365.3
10°	7827.1	7651.2	7320.8	6961.9	6536.5	6156.2	5768.7	5452.6	5269.6	5096.1	5115.1
12.5°	7591.8	7358.9	6864.5	6320.2	5783.0	5222.0	4637.3	4200.0	3900.5	3684.2	3650.9
15°	7373.1	7073.6	6420.0	5702.2	4970.1	4223.7	3477.4	2852.3	2505.3	2291.3	2277.1
17.5°	7178.2	6807.4	5958.9	5055.7	4138.2	3182.7	2324.6	1856.4	1656.7	1564.0	1554.5
20°	6990.5	6538.8	5488.3	4399.6	3230.2	2234.3	1604.4	1388.1	1323.9	1285.9	1290.7
22.5°	6809.8	6246.5	4993.9	3672.3	2422.1	1568.8	1243.1	1159.9	1152.8	1157.5	1159.9
25°	6657.7	5977.9	4485.2	2971.1	1728.0	1195.6	1038.7	1014.9	1036.3	1067.2	1072.0
27.5°	6579.3	5759.2	3988.4	2265.2	1250.2	972.2	900.8	910.4	948.4	981.7	986.4
30°	6600.6	5595.2	3475.0	1642.4	962.6	820.0	796.3	815.3	853.3	884.2	889.0
32.5°	6752.8	5512.0	2949.7	1195.6	791.5	715.4	705.9	720.2	753.5	777.2	779.6
35°	7054.6	5531.0	2450.6	915.1	679.8	637.0	634.6	644.1	660.8	677.4	679.8
37.5°	7499.1	5685.5	1958.6	760.6	615.6	584.7	575.2	575.2	587.1	594.2	599.0
40°	7976.9	5918.5	1568.8	672.7	570.5	537.2	518.2	511.0	520.5	530.0	532.4
42.5°	8371.4	6151.4	1274.0	610.9	534.8	489.6	465.9	461.1	473.0	489.6	494.4
45°	8673.3	6332.1	1062.5	560.9	494.4	444.5	418.3	418.3	439.7	468.2	473.0
47.5°	8949.0	6477.0	905.6	515.8	456.4	404.1	377.9	382.7	418.3	456.4	463.5
50°	9136.8	6593.5	789.1	475.4	425.5	370.8	347.0	356.5	399.3	444.5	451.6
52.5°	9338.8	6736.1	713.1	439.7	396.9	344.7	323.3	330.4	377.9	427.8	437.3
55°	9897.4	7213.9	710.7	392.2	347.0	309.0	299.5	301.9	349.4	406.4	418.3
57.5°	10353.8	7634.6	758.2	330.4	290.0	271.0	266.2	268.6	311.4	375.5	389.8
60°	8566.3	5932.7	627.5	273.3	242.4	237.7	230.6	235.3	275.7	332.8	344.7
62.5°	5069.9	3391.8	299.5	209.2	206.8	202.0	194.9	204.4	242.4	292.4	299.5
65°	1732.8	1005.4	190.2	171.1	175.9	168.8	161.6	171.1	204.4	232.9	235.3
67.5°	332.8	266.2	152.1	142.6	145.0	130.7	128.4	137.9	156.9	161.6	159.3
70°	173.5	154.5	116.5	116.5	111.7	92.7	92.7	102.2	102.2	95.1	92.7
72.5°	90.3	85.6	76.1	85.6	71.3	57.0	57.0	61.8	57.0	47.5	47.5
75°	35.7	35.7	33.3	42.8	30.9	26.1	23.8	28.5	21.4	16.6	16.6
77.5°	9.5	9.5	9.5	11.9	7.1	7.1	4.8	4.8	2.4	0.0	0.0
80°	0.0	2.4	0.0	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)