

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: P636508

Luminaire Tested: GWS-SA3F-830-U-T2-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P636508  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-20)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA3F-830-U-T2-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (48) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

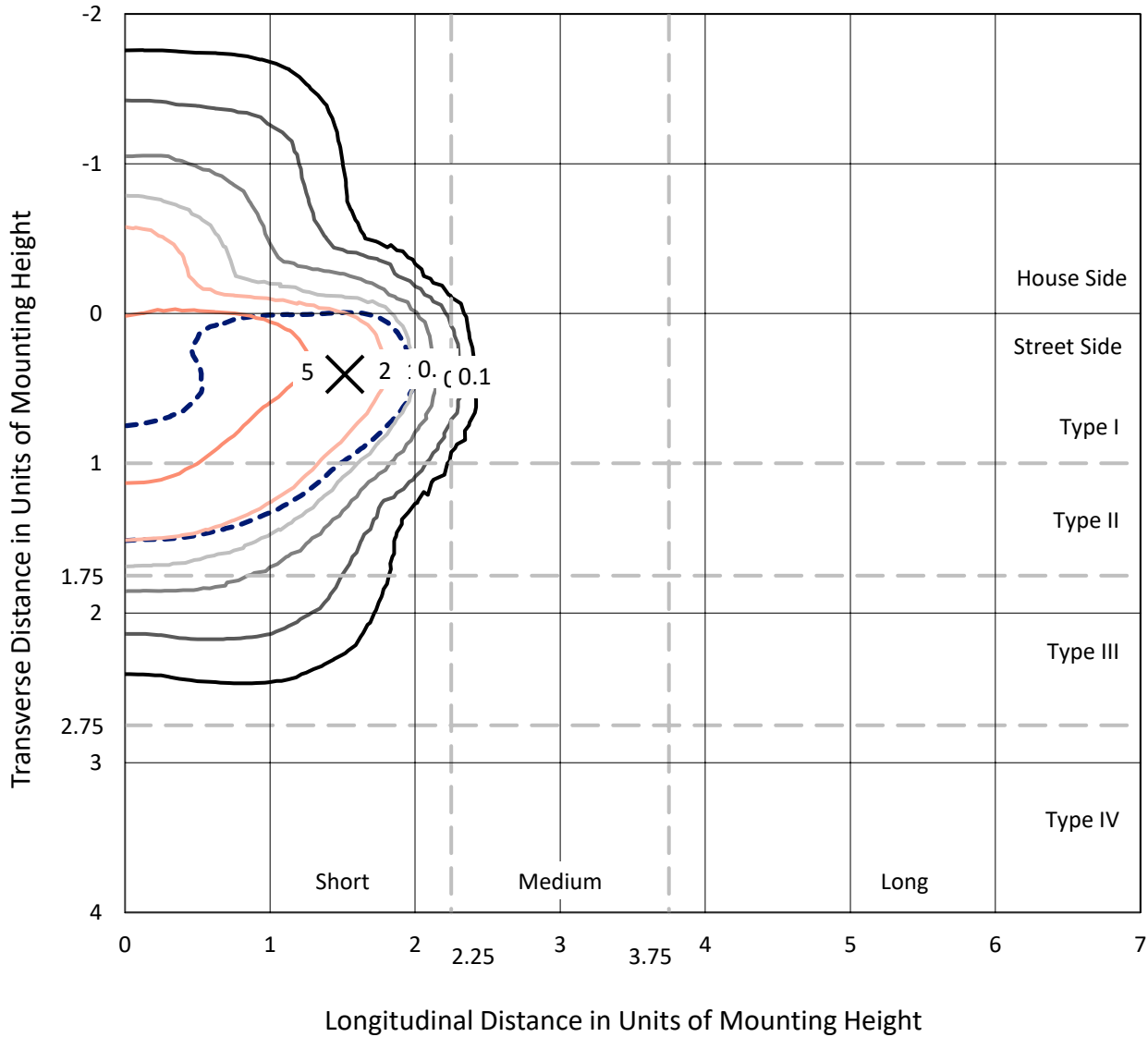
Lumens per Lamp: N/A  
Luminaire Lumens: 11537.4 lumens  
Efficiency: N/A  
Efficacy: 63.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1  
  
Input Watts (W): 183.2  
Input Voltage (V): 120  
Input Current (Ain): 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

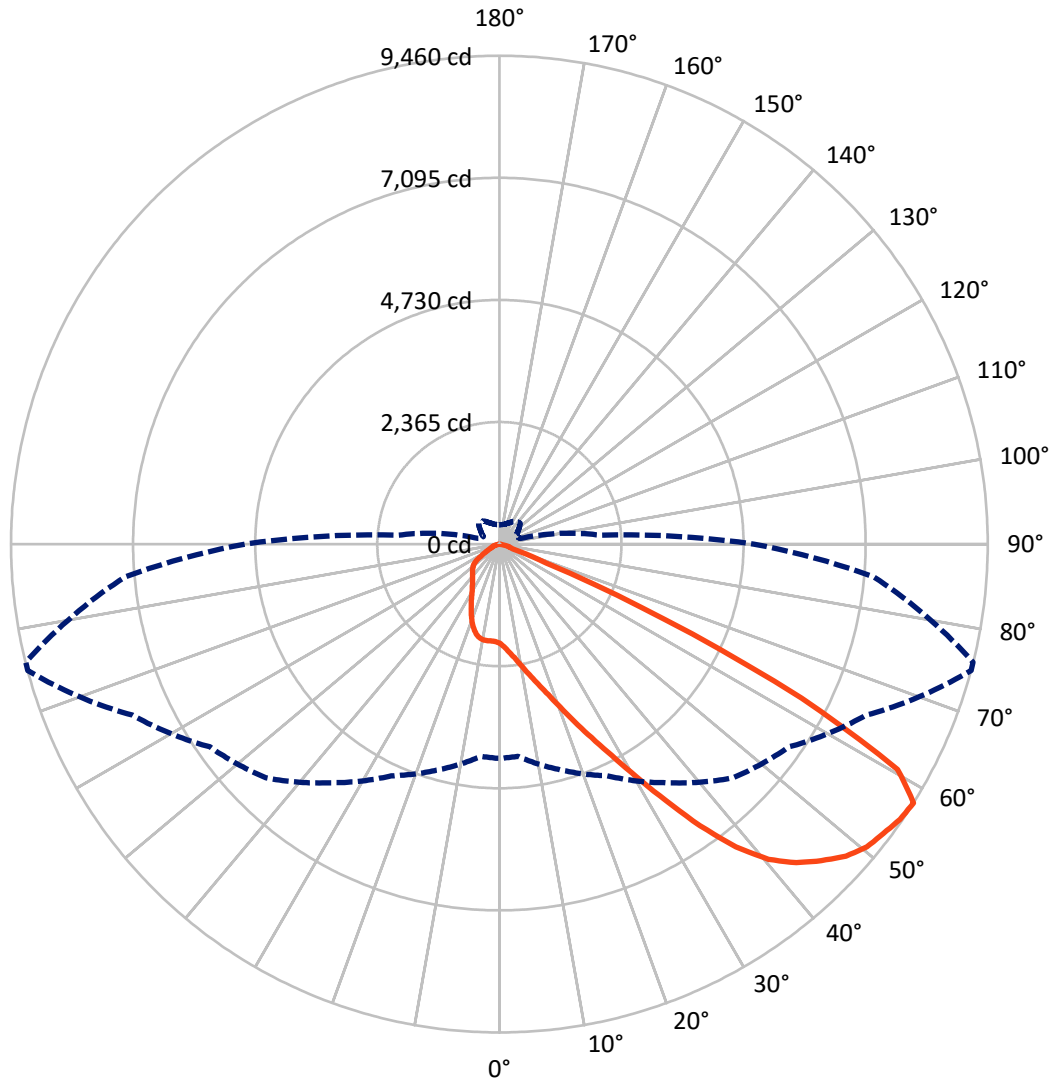
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1884.6	0.0	1884.6
	% Fixture	16.3	0.0	16.3
<b>Street Side</b>	Lumens	9652.8	0.0	9652.8
	% Fixture	83.7	0.0	83.7
<b>Total</b>	Lumens	11537.4	0.0	11537.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	195.8	1.7
10°-20°	636.1	5.5
20°-30°	1164.8	10.1
30°-40°	1932.5	16.8
40°-50°	2951.4	25.6
50°-60°	3316.5	28.7
60°-70°	1223.3	10.6
70°-80°	116.9	1.0
80°-90°	0.1	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°	11537.4	100.0
0°-180°	11537.4	100.0

**Coefficient of Utilization**



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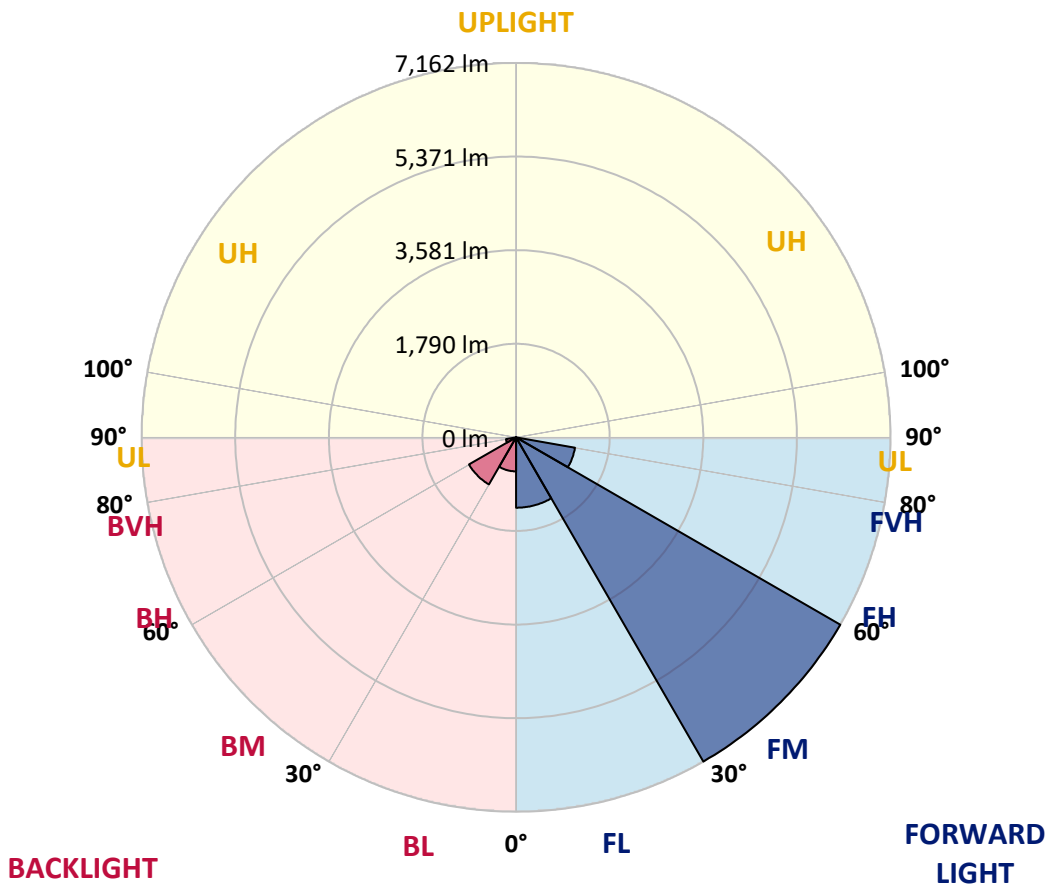
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1346.4	11.7			
FM (30°-60°)	7161.9	62.1			
FH (60°-80°)	1144.5	9.9			G1/1800
FVH (80°-90°)	0.1	0.0			G0/10
BL (0°-30°)	650.3	5.6	B2/1000		
BM (30°-60°)	1038.5	9.0	B2/2500		
BH (60°-80°)	195.7	1.7	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: B2-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1924.3	1924.3	1924.3	1924.3	1924.3	1924.3	1924.3	1924.3	1924.3	1924.3	1924.3
2.5°	2149.8	2172.1	2165.2	2151.2	2142.9	2113.6	2095.5	2042.6	2005.0	2000.9	1966.0
5°	2421.4	2417.2	2411.6	2394.9	2381.0	2335.0	2280.7	2191.6	2112.2	2102.5	2028.7
7.5°	2570.3	2573.1	2575.9	2573.1	2563.4	2528.6	2468.7	2364.3	2243.1	2234.8	2117.8
10°	2631.6	2637.2	2651.1	2677.6	2701.2	2698.4	2663.6	2556.4	2407.4	2393.5	2236.2
12.5°	2660.8	2667.8	2690.1	2740.2	2804.3	2854.4	2860.0	2763.9	2599.6	2577.3	2376.8
15°	2701.2	2708.2	2736.0	2801.5	2894.8	2993.6	3057.7	2996.4	2812.6	2788.9	2531.4
17.5°	2719.3	2729.1	2769.5	2855.8	2976.9	3128.7	3273.5	3267.9	3064.6	3046.5	2711.0
20°	2754.1	2761.1	2797.3	2890.6	3036.8	3255.4	3499.1	3586.8	3372.4	3345.9	2928.2
22.5°	2864.1	2866.9	2883.6	2942.1	3078.6	3347.3	3728.8	3958.6	3735.8	3701.0	3171.9
25°	3043.8	3042.4	3049.3	3059.1	3159.3	3440.6	3950.2	4377.7	4152.1	4114.5	3447.5
27.5°	3272.1	3272.1	3288.8	3261.0	3301.3	3556.2	4168.8	4859.4	4636.6	4583.7	3749.7
30°	3540.8	3539.4	3578.4	3533.9	3546.4	3738.6	4404.1	5384.4	5221.4	5156.0	4097.8
32.5°	3905.6	3897.3	3941.8	3880.6	3838.8	4014.2	4690.9	5933.0	5921.8	5821.6	4535.0
35°	4366.5	4352.6	4366.5	4306.7	4231.5	4399.9	5066.9	6480.2	6698.8	6592.9	5055.8
37.5°	4824.6	4869.2	4884.5	4781.5	4720.2	4888.7	5519.4	6970.3	7440.9	7330.9	5597.4
40°	5364.9	5350.9	5403.9	5288.3	5249.3	5435.9	5962.2	7335.1	8028.5	7924.1	6079.2
42.5°	5763.1	5788.1	5853.6	5789.5	5758.9	5934.3	6334.0	7548.1	8436.5	8333.4	6423.1
45°	6240.7	6258.8	6283.8	6230.9	6198.9	6371.6	6602.7	7641.4	8747.0	8635.6	6654.2
47.5°	6757.3	6771.2	6771.2	6662.6	6559.5	6630.5	6782.3	7694.3	9032.4	8925.2	6825.5
50°	7127.6	7134.6	7195.9	7119.3	6895.1	6785.1	6864.5	7745.8	9221.8	9121.5	6881.2
52.5°	6799.0	6790.7	6992.6	7151.3	7211.2	6992.6	7006.5	7821.0	9313.7	9227.3	6925.7
55°	5725.5	5711.6	5995.6	6381.3	6909.0	7188.9	7177.8	7865.6	9415.3	9362.4	7087.2
57.5°	4150.7	4127.0	4522.5	4951.3	5643.3	6402.2	6847.8	7840.5	9459.9	9455.7	7275.2
60°	2495.2	2475.7	2848.8	3300.0	3834.6	4597.7	5337.0	7023.2	8863.9	8872.3	6786.5
62.5°	1535.8	1553.9	1890.9	2120.6	2319.7	2549.5	2976.9	4724.4	6566.5	6620.8	4768.9
65°	1033.2	1047.1	1359.0	1648.6	1648.6	1347.8	1157.1	2258.5	3503.2	3411.3	2255.7
67.5°	693.4	708.7	955.2	1293.5	1342.3	939.9	469.2	673.9	976.1	946.8	558.3
70°	408.0	424.7	636.3	886.9	977.5	654.4	313.3	285.4	277.1	268.7	217.2
72.5°	182.4	189.4	324.4	451.1	412.1	275.7	221.4	228.4	215.8	211.6	176.8
75°	55.7	58.5	83.5	97.5	98.9	98.9	133.7	179.6	169.9	171.3	136.5
77.5°	13.9	13.9	22.3	20.9	11.1	9.7	25.1	40.4	41.8	37.6	27.8
80°	0.0	0.0	0.0	0.0	0.0	1.4	1.4	1.4	1.4	1.4	1.4
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°	1924.3	1924.3	1924.3	1924.3	1924.3	1924.3	1924.3	1924.3	1924.3	1924.3	1924.3
2.5°	1950.7	1914.5	1890.9	1857.4	1833.8	1808.7	1786.4	1768.3	1758.6	1755.8	1757.2
5°	1995.3	1938.2	1882.5	1818.5	1773.9	1732.1	1698.7	1672.3	1659.7	1655.5	1655.5
7.5°	2063.5	1984.2	1885.3	1785.0	1709.9	1644.4	1605.4	1576.2	1565.0	1562.3	1553.9
10°	2152.6	2044.0	1881.1	1725.2	1619.3	1551.1	1523.3	1514.9	1519.1	1520.5	1519.1
12.5°	2259.8	2106.7	1854.7	1637.4	1523.3	1481.5	1484.3	1506.6	1531.6	1544.2	1546.9
15°	2374.0	2163.8	1794.8	1533.0	1441.1	1439.7	1480.1	1531.6	1580.4	1601.2	1606.8
17.5°	2502.1	2209.7	1702.9	1421.6	1370.1	1410.5	1482.9	1562.3	1627.7	1662.5	1669.5
20°	2642.7	2247.3	1585.9	1317.2	1307.5	1379.9	1480.1	1577.6	1658.3	1697.3	1704.3
22.5°	2788.9	2273.8	1450.9	1221.1	1250.4	1345.0	1453.7	1548.3	1624.9	1669.5	1675.0
25°	2956.0	2276.6	1313.0	1140.4	1197.5	1297.7	1389.6	1467.6	1531.6	1570.6	1574.8
27.5°	3102.2	2243.1	1190.5	1074.9	1148.7	1239.2	1300.5	1343.7	1388.2	1410.5	1411.9
30°	3270.7	2184.7	1074.9	1022.0	1098.6	1166.8	1197.5	1207.2	1211.4	1215.6	1210.0
32.5°	3471.2	2113.6	988.6	970.5	1041.5	1087.5	1095.8	1076.3	1052.6	1019.2	1010.9
35°	3717.7	2049.6	917.6	920.4	978.8	1006.7	999.7	958.0	912.0	871.6	864.7
37.5°	3985.0	1995.3	863.3	871.6	910.6	930.1	909.2	863.3	842.4	807.6	809.0
40°	4221.7	1950.7	814.5	822.9	841.0	859.1	825.7	795.1	834.0	831.3	834.0
42.5°	4390.2	1913.1	772.8	768.6	781.1	793.7	768.6	753.3	818.7	800.6	810.4
45°	4489.1	1878.3	738.0	712.9	732.4	754.7	738.0	718.5	740.7	657.2	650.2
47.5°	4555.9	1858.8	707.3	658.6	693.4	732.4	697.6	650.2	618.2	545.8	540.2
50°	4562.8	1849.1	671.1	602.9	647.5	689.2	648.9	583.4	537.5	505.4	501.3
52.5°	4599.1	1868.6	621.0	531.9	580.6	647.5	619.6	554.2	491.5	463.7	458.1
55°	4760.6	1950.7	537.5	434.4	505.4	615.4	595.9	494.3	434.4	417.7	413.5
57.5°	4927.7	1967.4	423.3	343.9	440.0	569.5	544.4	455.3	396.8	377.3	373.2
60°	4505.8	1620.7	317.5	284.0	388.5	526.3	504.0	431.6	363.4	339.7	335.6
62.5°	2960.2	875.8	252.0	240.9	327.2	445.6	459.5	389.9	324.4	299.4	298.0
65°	1364.5	406.6	193.5	190.8	256.2	355.1	395.4	341.1	274.3	252.0	252.0
67.5°	371.8	201.9	151.8	140.6	174.0	238.1	288.2	254.8	194.9	168.5	167.1
70°	185.2	162.9	136.5	121.1	125.3	147.6	169.9	142.0	98.9	80.8	79.4
72.5°	151.8	133.7	115.6	103.0	94.7	90.5	87.7	71.0	45.9	34.8	33.4
75°	112.8	96.1	82.2	66.8	57.1	52.9	47.3	34.8	19.5	11.1	9.7
77.5°	25.1	23.7	22.3	16.7	15.3	12.5	9.7	7.0	2.8	0.0	0.0
80°	1.4	1.4	1.4	1.4	1.4	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)