

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: P636208

Luminaire Tested: GWS-SA3F-735-U-AFL-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P636208  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-47)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA3F-735-U-AFL-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (48) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

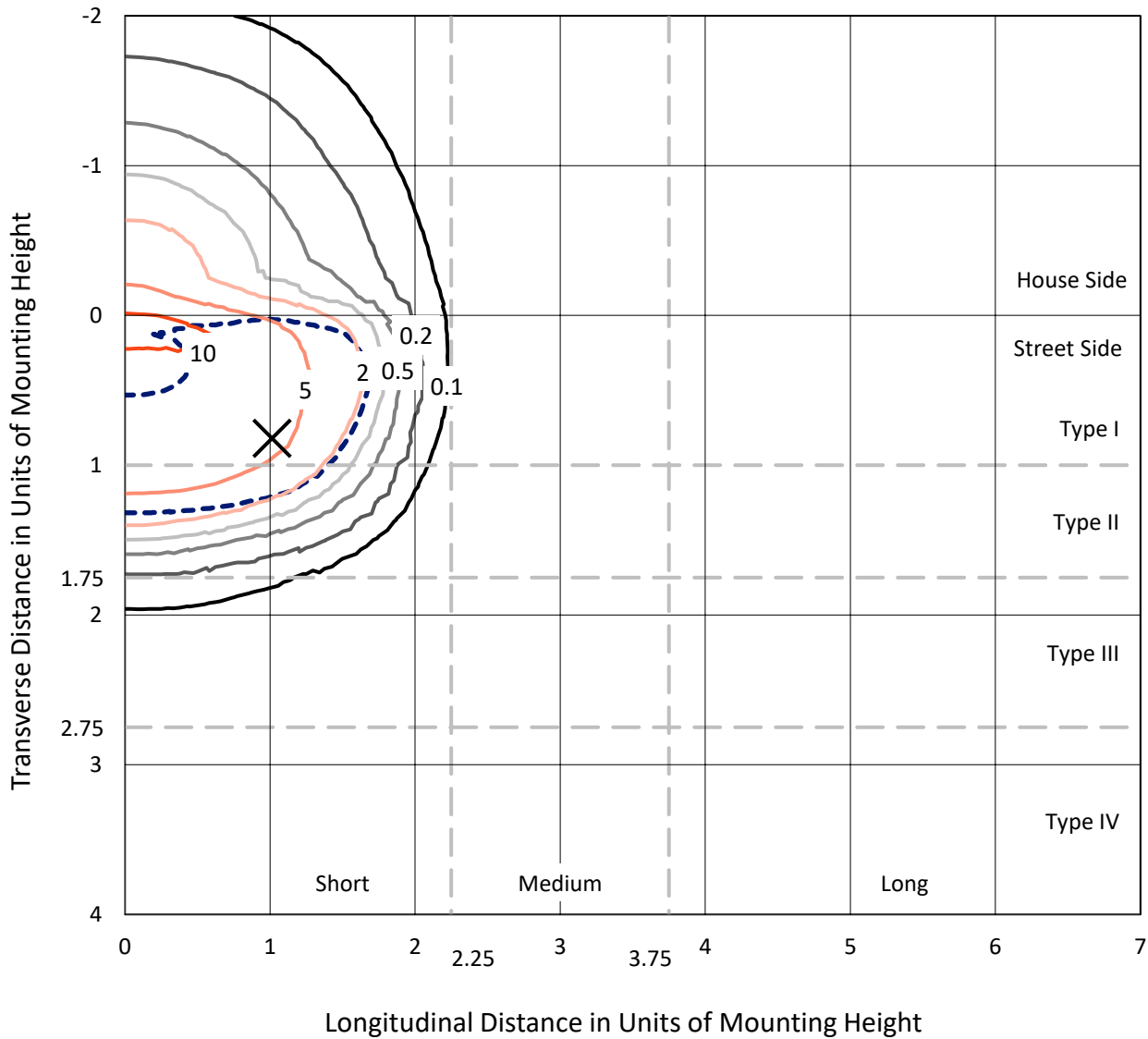
Lumens per Lamp: N/A  
Luminaire Lumens: 21877.6 lumens  
Efficiency: N/A  
Efficacy: 119.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 183.2  
Input Voltage (V): 120  
Input Current (Ain): 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

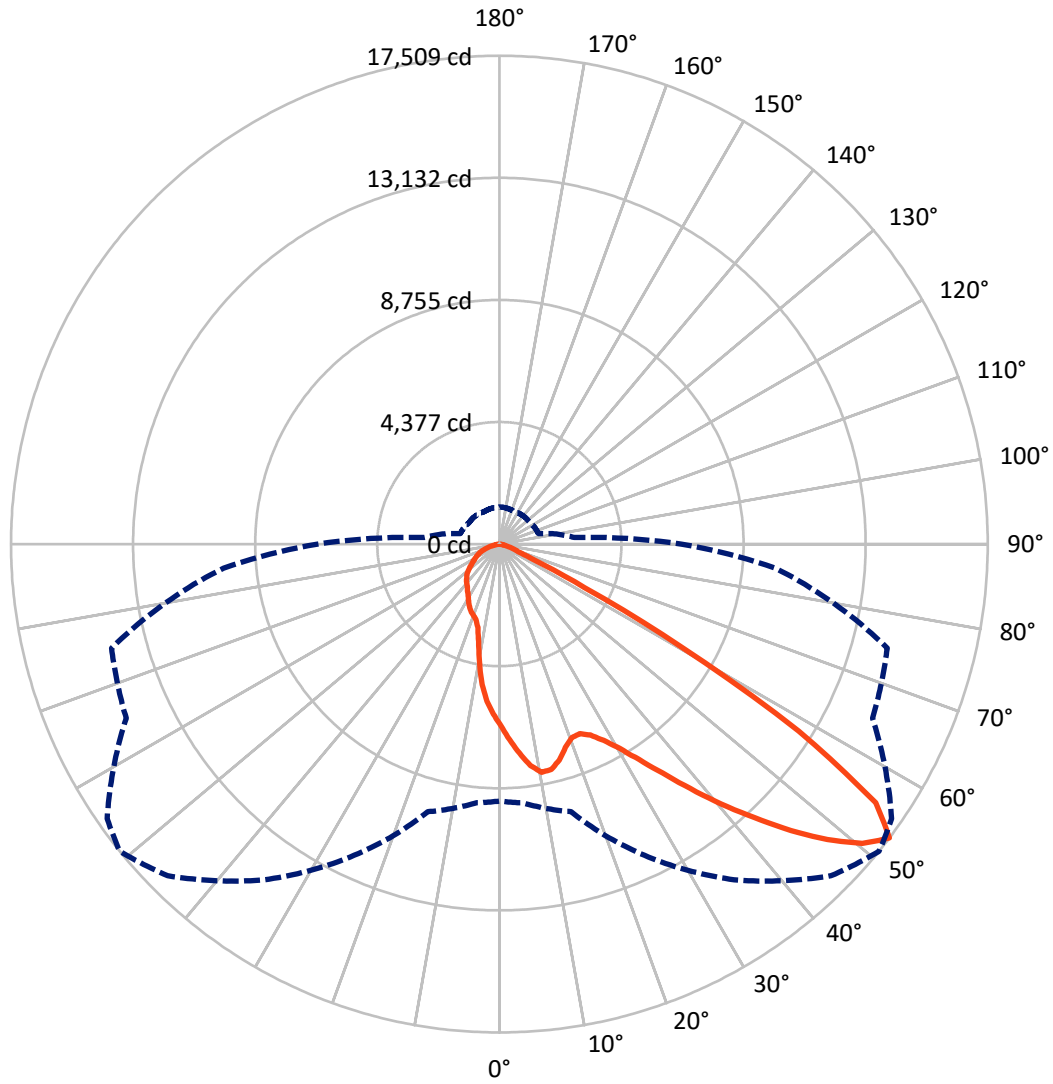
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 51-Deg Lateral    - - - Horizontal Cone Through 52.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4262.7	0.0	4262.7
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	17614.9	0.0	17614.9
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	21877.6	0.0	21877.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	607.9	2.8
10°-20°	1579.4	7.2
20°-30°	2568.0	11.7
30°-40°	4069.8	18.6
40°-50°	6138.1	28.1
50°-60°	5309.9	24.3
60°-70°	1203.8	5.5
70°-80°	355.0	1.6
80°-90°	45.7	0.2
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°	21877.6	100.0
0°-180°	21877.6	100.0

**Coefficient of Utilization**



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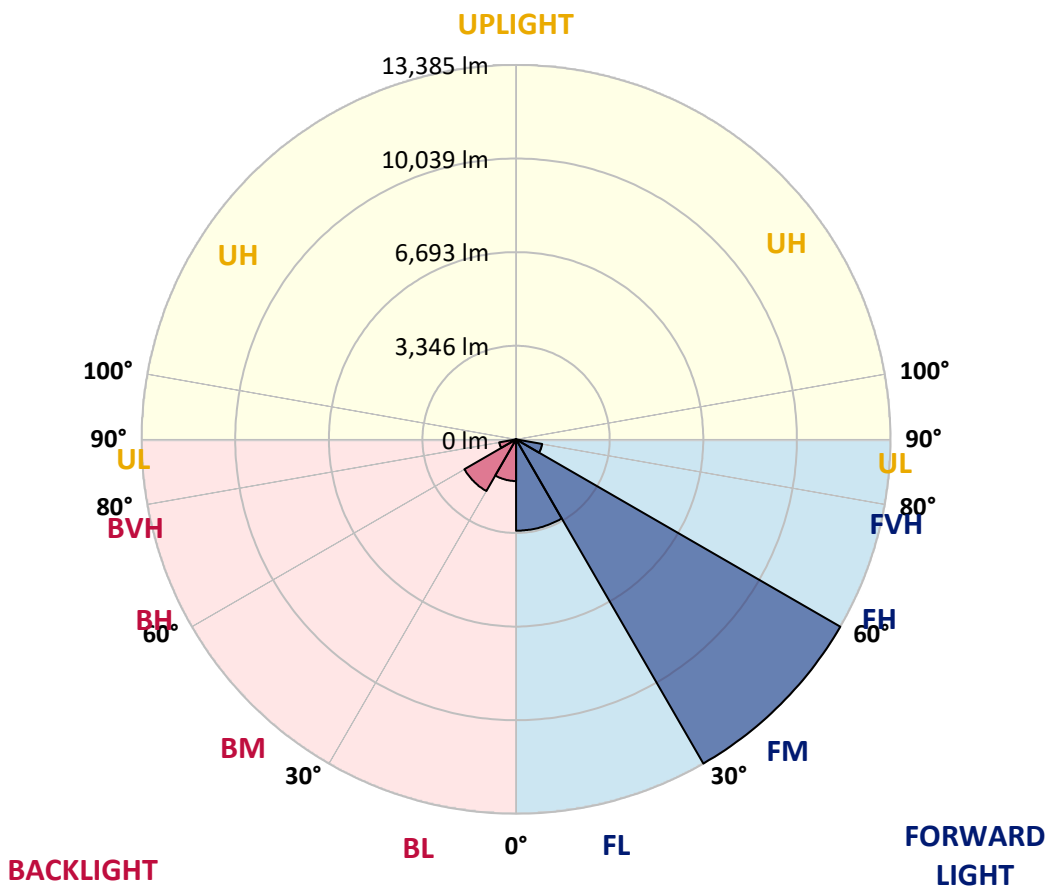
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3265.3	14.9			
FM (30°-60°)	13385.0	61.2			
FH (60°-80°)	947.4	4.3			G1/1800
FVH (80°-90°)	17.2	0.1			G1/100
BL (0°-30°)	1490.0	6.8	B3/2500		
BM (30°-60°)	2132.7	9.7	B2/2500		
BH (60°-80°)	611.4	2.8	B2/1000		G2/1000
BVH (80°-90°)	28.5	0.1			G1/100
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°	51°	55°	65°	75°	85°
0°	6514.1	6514.1	6514.1	6514.1	6514.1	6514.1	6514.1	6514.1	6514.1	6514.1	6514.1
2.5°	7259.2	7300.6	7236.7	7212.5	7172.7	7103.6	7024.0	7001.6	6830.4	6718.0	6591.8
5°	7988.7	8011.2	7959.3	7907.5	7808.9	7686.2	7532.3	7499.5	7188.3	6930.7	6662.7
7.5°	8151.2	8142.6	8187.5	8216.9	8204.8	8156.4	8019.8	7955.9	7584.2	7176.2	6780.3
10°	7508.1	7459.7	7625.7	7822.7	8059.6	8332.7	8317.2	8312.0	7988.7	7506.4	6930.7
12.5°	6655.8	6631.6	6766.5	7013.7	7461.4	8066.5	8293.0	8469.3	8353.5	7821.0	7098.4
15°	6168.3	6159.7	6251.3	6429.3	6785.5	7549.6	8033.7	8382.9	8666.4	8158.1	7276.4
17.5°	6080.1	6085.3	6116.4	6218.4	6474.3	7103.6	7663.7	8151.2	8910.1	8528.1	7499.5
20°	6337.7	6372.3	6318.7	6334.3	6472.6	6942.8	7411.3	7917.8	9065.7	8899.8	7739.8
22.5°	6909.9	6897.8	6780.3	6711.1	6712.9	7041.3	7383.6	7808.9	9167.7	9261.1	7957.6
25°	7558.2	7544.4	7404.4	7250.5	7153.7	7309.3	7582.4	7924.7	9259.4	9591.3	8132.2
27.5°	8324.1	8280.9	8125.3	7928.2	7713.8	7781.3	7966.2	8237.6	9401.1	9916.3	8248.0
30°	9065.7	9115.9	8892.9	8659.5	8433.0	8391.5	8498.7	8744.2	9689.8	10296.6	8386.3
32.5°	10049.4	10032.1	9784.9	9480.6	9157.4	9126.2	9211.0	9435.7	10208.5	10822.2	8597.2
35°	11240.5	11244.0	10893.1	10481.6	10021.8	9938.8	10080.5	10298.4	10981.2	11534.4	8930.9
37.5°	12478.4	12473.2	12167.2	11700.4	11072.9	10955.3	11117.8	11280.3	11947.6	12504.3	9449.5
40°	13346.2	13380.8	13237.3	12991.8	12397.1	12110.1	12253.6	12366.0	12998.7	13645.3	10132.4
42.5°	13838.9	13890.8	13921.9	14068.8	13755.9	13449.9	13398.1	13456.8	13937.4	14705.0	10773.8
45°	13944.4	14013.5	14240.0	14784.5	14905.6	14819.1	14649.7	14507.9	14637.6	15457.0	11193.9
47.5°	13479.3	13600.3	14084.4	15037.0	15744.0	16015.4	15827.0	15610.9	15042.1	15650.7	11150.6
50°	11636.4	11778.2	12869.1	14521.8	15863.3	16852.2	16869.5	16549.6	14993.7	15092.3	10607.8
52.5°	9212.7	9309.5	9933.6	12310.7	14692.9	16817.6	17509.1	17166.8	14760.3	14393.8	9928.4
55°	5506.2	5661.8	6244.4	8121.8	11446.3	14905.6	16378.5	16544.4	14646.2	13807.8	9465.1
57.5°	1858.4	1934.5	2491.2	3587.2	6745.7	10913.8	12654.7	13328.9	13296.1	12912.3	8560.9
60°	885.1	902.4	1014.8	1360.6	2700.4	5703.3	7490.8	8268.8	8977.6	9048.4	5326.4
62.5°	674.2	684.6	741.6	816.0	1085.7	2403.0	3433.4	4028.1	4302.9	3692.7	1939.7
65°	563.6	572.2	615.4	662.1	738.2	1040.7	1317.3	1519.6	1369.2	1066.7	924.9
67.5°	470.2	477.1	510.0	560.1	612.0	696.7	731.3	752.0	788.3	885.1	850.6
70°	368.2	375.1	409.7	452.9	503.1	523.8	556.7	577.4	650.0	774.5	771.0
72.5°	283.5	292.2	311.2	338.8	380.3	401.1	437.4	461.6	503.1	603.3	644.8
75°	207.5	212.6	229.9	238.6	243.8	238.6	274.9	302.5	357.9	395.9	406.3
77.5°	84.7	95.1	91.6	91.6	108.9	131.4	150.4	167.7	205.7	228.2	229.9
80°	34.6	38.0	44.9	50.1	60.5	77.8	89.9	96.8	114.1	127.9	138.3
82.5°	20.7	22.5	25.9	27.7	34.6	44.9	51.9	57.0	70.9	84.7	89.9
85°	10.4	10.4	12.1	13.8	17.3	20.7	24.2	27.7	36.3	44.9	50.1
87.5°	1.7	1.7	1.7	3.5	5.2	6.9	8.6	10.4	12.1	13.8	17.3
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°	6514.1	6514.1	6514.1	6514.1	6514.1	6514.1	6514.1	6514.1	6514.1	6514.1	6514.1
2.5°	6517.5	6424.2	6315.2	6228.8	6128.5	6054.2	5948.7	5883.0	5820.8	5768.9	5730.9
5°	6524.4	6367.1	6140.6	5940.1	5732.6	5535.6	5333.3	5169.1	5022.1	4899.4	4889.0
7.5°	6564.2	6337.7	5983.3	5632.4	5227.8	4837.1	4446.4	4128.3	3886.3	3760.1	3734.2
10°	6631.6	6334.3	5822.5	5262.4	4572.6	3943.4	3480.0	3238.0	3098.0	3047.8	3030.6
12.5°	6702.5	6325.6	5616.8	4740.3	3782.6	3231.1	2977.0	2947.6	2973.5	2977.0	2975.2
15°	6788.9	6320.4	5357.5	4128.3	3205.2	2900.9	2918.2	2980.4	3040.9	3054.8	3054.8
17.5°	6894.4	6308.3	5004.8	3530.2	2843.8	2836.9	2928.6	3011.5	3068.6	3079.0	3079.0
20°	7005.0	6277.2	4570.9	3042.7	2696.9	2797.2	2895.7	2959.7	2999.4	3013.3	3015.0
22.5°	7081.1	6194.2	4071.3	2681.3	2605.3	2721.1	2792.0	2857.7	2857.7	2823.1	2812.7
25°	7096.7	6016.2	3530.2	2434.1	2496.4	2603.5	2676.2	2638.1	2567.2	2539.6	2537.9
27.5°	7039.6	5756.8	2996.0	2257.8	2365.0	2472.2	2460.1	2404.7	2373.6	2346.0	2356.3
30°	6970.5	5445.7	2532.7	2112.6	2212.8	2318.3	2276.8	2257.8	2235.3	2204.2	2211.1
32.5°	6923.8	5098.2	2176.5	2000.2	2110.8	2128.1	2157.5	2155.8	2135.0	2076.3	2072.8
35°	6937.6	4747.2	1938.0	1908.6	2026.1	2019.2	2074.5	2064.2	1920.7	1839.4	1834.2
37.5°	7048.2	4410.1	1797.9	1836.0	1891.3	1934.5	1982.9	1858.4	1808.3	1756.4	1759.9
40°	7259.2	4097.2	1721.9	1796.2	1810.0	1874.0	1761.6	1759.9	1737.4	1690.7	1689.0
42.5°	7497.7	3832.7	1670.0	1777.2	1758.2	1770.3	1651.0	1664.8	1663.1	1633.7	1625.1
45°	7642.9	3589.0	1628.5	1706.3	1711.5	1590.5	1554.2	1569.7	1578.4	1562.8	1561.1
47.5°	7492.5	3308.9	1585.3	1597.4	1642.3	1509.2	1464.3	1466.0	1481.6	1483.3	1476.4
50°	7070.7	2996.0	1533.4	1504.0	1474.7	1424.5	1383.0	1374.4	1389.9	1405.5	1410.7
52.5°	6526.2	2696.9	1447.0	1402.0	1332.9	1332.9	1313.9	1286.2	1307.0	1327.7	1334.6
55°	6126.8	2475.6	1324.2	1274.1	1198.0	1224.0	1220.5	1196.3	1224.0	1239.5	1244.7
57.5°	5309.1	1989.8	1165.2	1149.6	1085.7	1116.8	1123.7	1092.6	1078.8	1082.2	1087.4
60°	3151.6	1284.5	1051.1	1049.4	992.3	1028.6	1049.4	1018.3	976.8	981.9	988.9
62.5°	1414.1	981.9	907.6	900.7	899.0	945.6	968.1	938.7	880.0	885.1	892.1
65°	890.3	848.8	788.3	788.3	816.0	855.7	873.0	848.8	781.4	772.8	779.7
67.5°	826.4	790.1	727.8	715.7	729.5	762.4	764.1	717.4	677.7	670.8	670.8
70°	741.6	714.0	653.5	629.3	624.1	622.4	617.2	605.1	579.1	572.2	575.7
72.5°	613.7	594.7	556.7	530.7	516.9	515.2	494.4	484.1	461.6	458.1	456.4
75°	406.3	411.5	411.5	408.0	395.9	390.7	368.2	357.9	331.9	321.6	319.8
77.5°	240.3	245.5	252.4	254.1	252.4	252.4	231.7	219.6	193.6	179.8	176.3
80°	146.9	150.4	153.9	159.0	152.1	146.9	127.9	115.8	103.7	95.1	93.4
82.5°	95.1	98.5	100.3	103.7	100.3	93.4	77.8	70.9	62.2	55.3	53.6
85°	53.6	55.3	58.8	58.8	53.6	48.4	39.8	34.6	29.4	25.9	25.9
87.5°	19.0	19.0	19.0	20.7	17.3	15.6	10.4	6.9	5.2	5.2	5.2
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)