

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: P636263

Luminaire Tested: GWS-SA3F-740-U-AFL-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P636263  
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-740-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) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

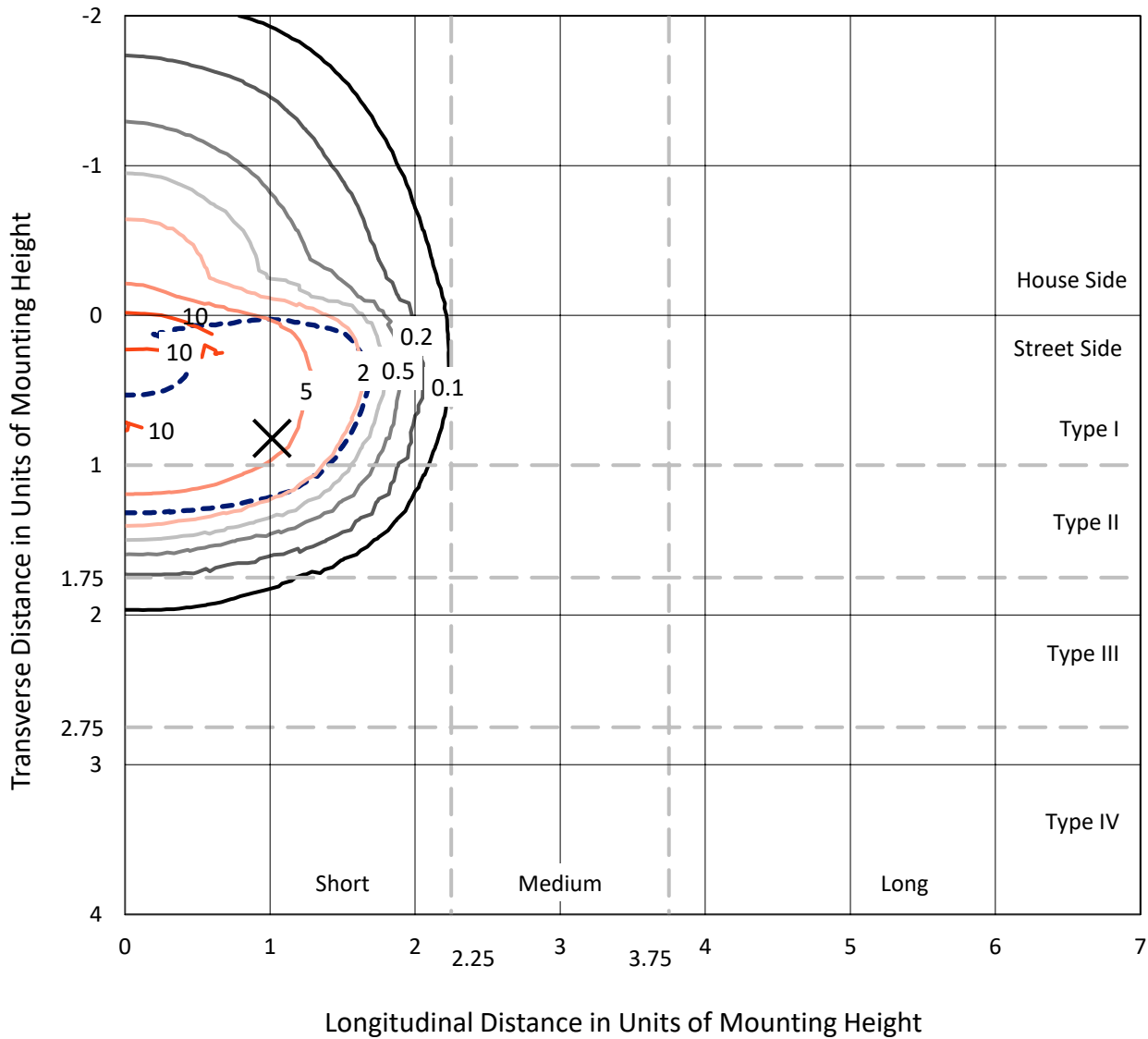
Lumens per Lamp: N/A  
Luminaire Lumens: 22181.6 lumens  
Efficiency: N/A  
Efficacy: 121.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 183.2  
Input Voltage (V): 120  
Input Current (Ain): 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

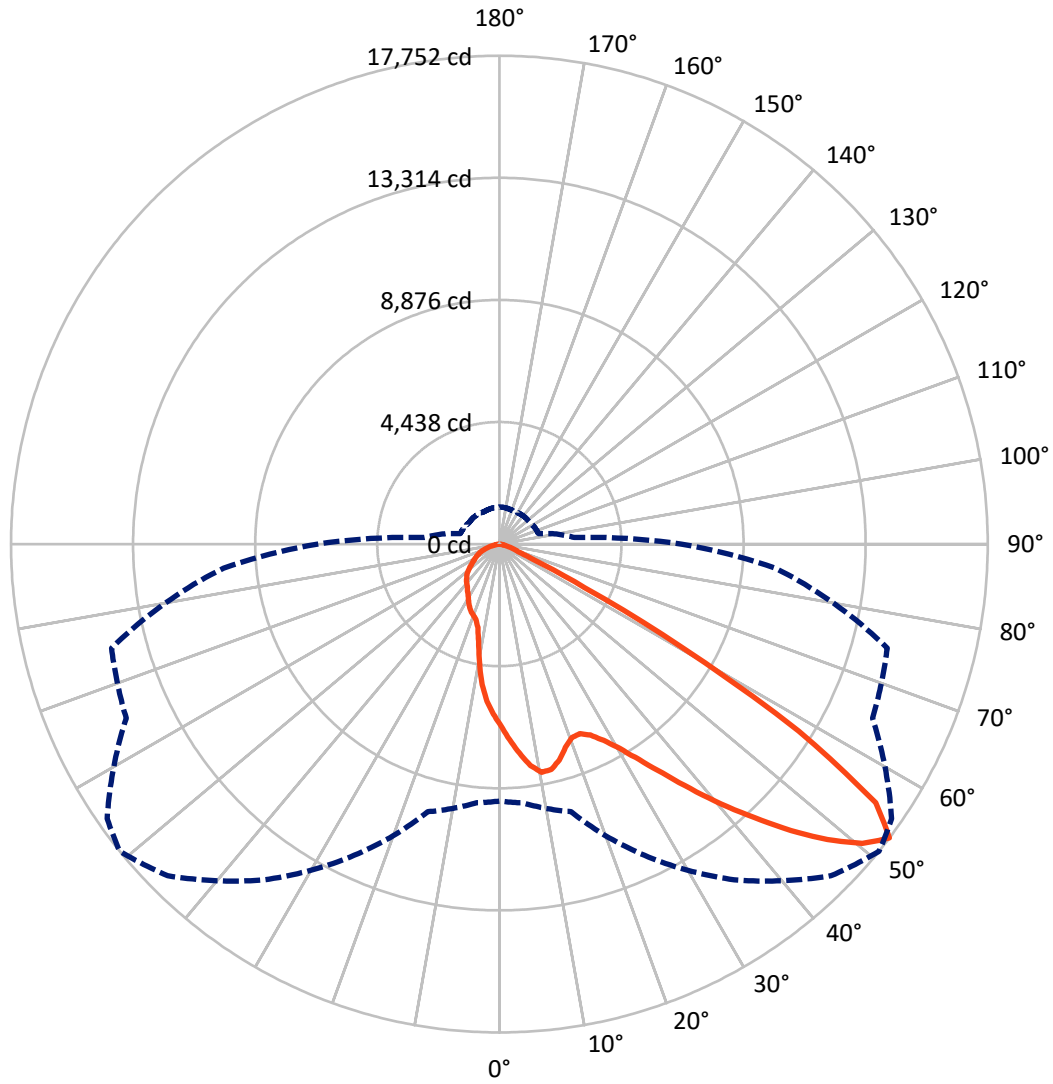
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.9 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	4321.9	0.0	4321.9
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	17859.7	0.0	17859.7
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	22181.6	0.0	22181.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	616.3	2.8
10°-20°	1601.4	7.2
20°-30°	2603.7	11.7
30°-40°	4126.3	18.6
40°-50°	6223.4	28.1
50°-60°	5383.7	24.3
60°-70°	1220.5	5.5
70°-80°	359.9	1.6
80°-90°	46.4	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°	22181.6	100.0
0°-180°	22181.6	100.0

**Coefficient of Utilization**



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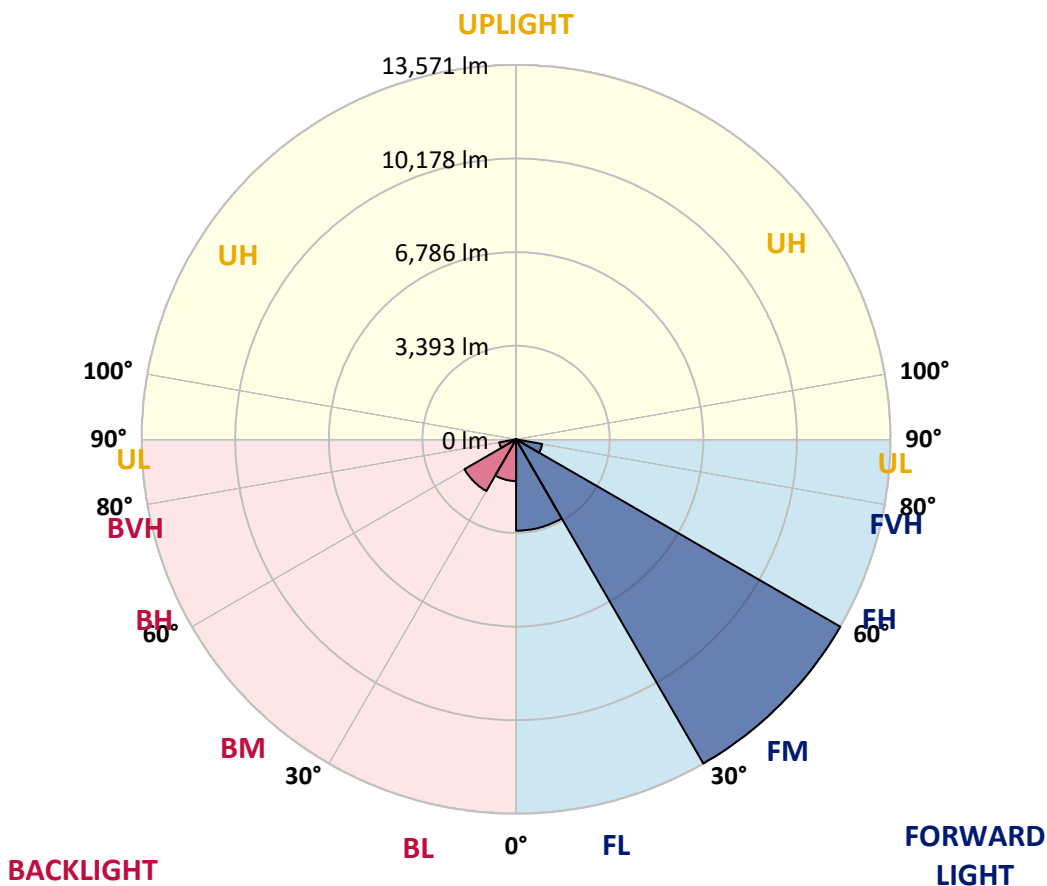
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3310.7	14.9			
FM (30°-60°)	13571.0	61.2			
FH (60°-80°)	960.5	4.3			G1/1800
FVH (80°-90°)	17.5	0.1			G1/100
BL (0°-30°)	1510.8	6.8	B3/2500		
BM (30°-60°)	2162.4	9.7	B2/2500		
BH (60°-80°)	619.9	2.8	B2/1000		G2/1000
BVH (80°-90°)	28.9	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°	6604.6	6604.6	6604.6	6604.6	6604.6	6604.6	6604.6	6604.6	6604.6	6604.6	6604.6
2.5°	7360.0	7402.1	7337.2	7312.7	7272.4	7202.3	7121.6	7098.9	6925.3	6811.4	6683.4
5°	8099.7	8122.5	8069.9	8017.3	7917.4	7793.0	7637.0	7603.7	7288.2	7027.0	6755.3
7.5°	8264.5	8255.7	8301.3	8331.1	8318.8	8269.7	8131.3	8066.4	7689.6	7275.9	6874.5
10°	7612.4	7563.4	7731.6	7931.4	8171.6	8448.5	8432.7	8427.5	8099.7	7610.7	7027.0
12.5°	6748.3	6723.8	6860.5	7111.1	7565.1	8178.6	8408.2	8587.0	8469.6	7929.7	7197.0
15°	6254.0	6245.2	6338.1	6518.7	6879.8	7654.5	8145.3	8499.4	8786.8	8271.5	7377.6
17.5°	6164.6	6169.9	6201.4	6304.8	6564.3	7202.3	7770.2	8264.5	9034.0	8646.6	7603.7
20°	6425.8	6460.8	6406.5	6422.3	6562.5	7039.3	7514.3	8027.8	9191.7	9023.4	7847.3
22.5°	7006.0	6993.7	6874.5	6804.4	6806.1	7139.2	7486.2	7917.4	9295.1	9389.8	8068.2
25°	7663.3	7649.2	7507.3	7351.3	7253.1	7410.9	7687.8	8034.9	9388.0	9724.6	8245.2
27.5°	8439.8	8395.9	8238.2	8038.4	7821.0	7889.4	8076.9	8352.1	9531.8	10054.1	8362.6
30°	9191.7	9242.5	9016.4	8779.8	8550.2	8508.1	8616.8	8865.7	9824.5	10439.7	8502.9
32.5°	10189.1	10171.5	9920.9	9612.4	9284.6	9253.1	9338.9	9566.8	10350.3	10972.6	8716.7
35°	11396.7	11400.2	11044.4	10627.3	10161.0	10076.9	10220.6	10441.5	11133.8	11694.7	9055.0
37.5°	12651.7	12646.5	12336.2	11863.0	11226.7	11107.5	11272.3	11437.1	12113.6	12678.0	9580.8
40°	13531.7	13566.7	13421.2	13172.3	12569.4	12278.4	12423.9	12537.8	13179.3	13834.9	10273.2
42.5°	14031.2	14083.8	14115.3	14264.3	13947.1	13636.8	13584.2	13643.8	14131.1	14909.4	10923.5
45°	14138.1	14208.2	14437.9	14990.0	15112.7	15025.0	14853.3	14709.5	14841.0	15671.8	11349.4
47.5°	13666.6	13789.3	14280.1	15245.9	15962.8	16238.0	16046.9	15827.8	15251.2	15868.1	11305.6
50°	11798.1	11941.9	13047.9	14723.6	16083.7	17086.3	17103.9	16779.6	15202.1	15302.0	10755.2
52.5°	9340.7	9438.9	10071.6	12481.7	14897.1	17051.3	17752.4	17405.4	14965.4	14593.9	10066.4
55°	5582.7	5740.4	6331.1	8234.7	11605.3	15112.7	16606.1	16774.3	14849.8	13999.7	9596.6
57.5°	1884.3	1961.4	2525.8	3637.1	6839.4	11065.5	12830.5	13514.1	13480.8	13091.7	8679.9
60°	897.4	915.0	1028.9	1379.5	2737.9	5782.5	7594.9	8383.7	9102.3	9174.2	5400.4
62.5°	683.6	694.1	752.0	827.3	1100.8	2436.4	3481.1	4084.0	4362.7	3744.0	1966.6
65°	571.4	580.2	624.0	671.3	748.4	1055.2	1335.6	1540.7	1388.2	1081.5	937.8
67.5°	476.8	483.8	517.1	567.9	620.5	706.4	741.4	762.5	799.3	897.4	862.4
70°	373.3	380.4	415.4	459.2	510.1	531.1	564.4	585.4	659.1	785.3	781.8
72.5°	287.5	296.2	315.5	343.5	385.6	406.7	443.5	468.0	510.1	611.7	653.8
75°	210.3	215.6	233.1	241.9	247.1	241.9	278.7	306.7	362.8	401.4	411.9
77.5°	85.9	96.4	92.9	92.9	110.4	133.2	152.5	170.0	208.6	231.4	233.1
80°	35.1	38.6	45.6	50.8	61.3	78.9	91.1	98.2	115.7	129.7	140.2
82.5°	21.0	22.8	26.3	28.0	35.1	45.6	52.6	57.8	71.9	85.9	91.1
85°	10.5	10.5	12.3	14.0	17.5	21.0	24.5	28.0	36.8	45.6	50.8
87.5°	1.8	1.8	1.8	3.5	5.3	7.0	8.8	10.5	12.3	14.0	17.5
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°	6604.6	6604.6	6604.6	6604.6	6604.6	6604.6	6604.6	6604.6	6604.6	6604.6	6604.6
2.5°	6608.1	6513.4	6403.0	6315.4	6213.7	6138.3	6031.4	5964.8	5901.7	5849.1	5810.5
5°	6615.1	6455.6	6226.0	6022.6	5812.3	5612.5	5407.4	5240.9	5091.9	4967.4	4956.9
7.5°	6655.4	6425.8	6066.5	5710.6	5300.5	4904.3	4508.2	4185.7	3940.3	3812.4	3786.1
10°	6723.8	6422.3	5903.4	5335.5	4636.2	3998.1	3528.4	3283.0	3141.0	3090.2	3072.7
12.5°	6795.6	6413.5	5694.9	4806.2	3835.1	3276.0	3018.3	2988.5	3014.8	3018.3	3016.6
15°	6883.3	6408.3	5431.9	4185.7	3249.7	2941.2	2958.7	3021.8	3083.2	3097.2	3097.2
17.5°	6990.2	6396.0	5074.4	3579.2	2883.4	2876.4	2969.3	3053.4	3111.2	3121.7	3121.7
20°	7102.4	6364.4	4634.4	3084.9	2734.4	2836.0	2935.9	3000.8	3041.1	3055.1	3056.9
22.5°	7179.5	6280.3	4127.9	2718.6	2641.5	2758.9	2830.8	2897.4	2897.4	2862.3	2851.8
25°	7195.3	6099.8	3579.2	2467.9	2531.1	2639.7	2713.3	2674.8	2602.9	2574.9	2573.1
27.5°	7137.4	5836.8	3037.6	2289.2	2397.8	2506.5	2494.2	2438.2	2406.6	2378.6	2389.1
30°	7067.3	5521.3	2567.9	2141.9	2243.6	2350.5	2308.4	2289.2	2266.4	2234.8	2241.8
32.5°	7020.0	5169.0	2206.8	2028.0	2140.2	2157.7	2187.5	2185.7	2164.7	2105.1	2101.6
35°	7034.0	4813.2	1964.9	1935.1	2054.3	2047.3	2103.4	2092.8	1947.4	1865.0	1859.7
37.5°	7146.2	4471.4	1822.9	1861.5	1917.6	1961.4	2010.5	1884.3	1833.4	1780.8	1784.4
40°	7360.0	4154.1	1745.8	1821.2	1835.2	1900.0	1786.1	1784.4	1761.6	1714.2	1712.5
42.5°	7601.9	3886.0	1693.2	1801.9	1782.6	1794.9	1673.9	1688.0	1686.2	1656.4	1647.6
45°	7749.2	3638.8	1651.1	1730.0	1735.3	1612.6	1575.8	1591.5	1600.3	1584.5	1582.8
47.5°	7596.7	3354.9	1607.3	1619.6	1665.2	1530.2	1484.6	1486.4	1502.2	1503.9	1496.9
50°	7169.0	3037.6	1554.7	1524.9	1495.1	1444.3	1402.2	1393.5	1409.3	1425.0	1430.3
52.5°	6616.8	2734.4	1467.1	1421.5	1351.4	1351.4	1332.1	1304.1	1325.1	1346.2	1353.2
55°	6211.9	2510.0	1342.6	1291.8	1214.7	1241.0	1237.5	1212.9	1241.0	1256.8	1262.0
57.5°	5382.9	2017.5	1181.4	1165.6	1100.8	1132.3	1139.3	1107.8	1093.8	1097.3	1102.5
60°	3195.4	1302.3	1065.7	1064.0	1006.1	1042.9	1064.0	1032.4	990.3	995.6	1002.6
62.5°	1433.8	995.6	920.2	913.2	911.5	958.8	981.6	951.8	892.2	897.4	904.4
65°	902.7	860.6	799.3	799.3	827.3	867.6	885.2	860.6	792.3	783.5	790.5
67.5°	837.8	801.0	737.9	725.7	739.7	773.0	774.7	727.4	687.1	680.1	680.1
70°	752.0	723.9	662.6	638.0	632.8	631.0	625.8	613.5	587.2	580.2	583.7
72.5°	622.2	603.0	564.4	538.1	524.1	522.3	501.3	490.8	468.0	464.5	462.7
75°	411.9	417.2	417.2	413.7	401.4	396.1	373.3	362.8	336.5	326.0	324.3
77.5°	243.6	248.9	255.9	257.7	255.9	255.9	234.9	222.6	196.3	182.3	178.8
80°	149.0	152.5	156.0	161.3	154.2	149.0	129.7	117.4	105.2	96.4	94.7
82.5°	96.4	99.9	101.7	105.2	101.7	94.7	78.9	71.9	63.1	56.1	54.3
85°	54.3	56.1	59.6	59.6	54.3	49.1	40.3	35.1	29.8	26.3	26.3
87.5°	19.3	19.3	19.3	21.0	17.5	15.8	10.5	7.0	5.3	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

(END OF REPORT)