

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: P637283

Luminaire Tested: GWS-SA4C-740-U-T2R-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P637283  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-13)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4C-740-U-T2R-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (64) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

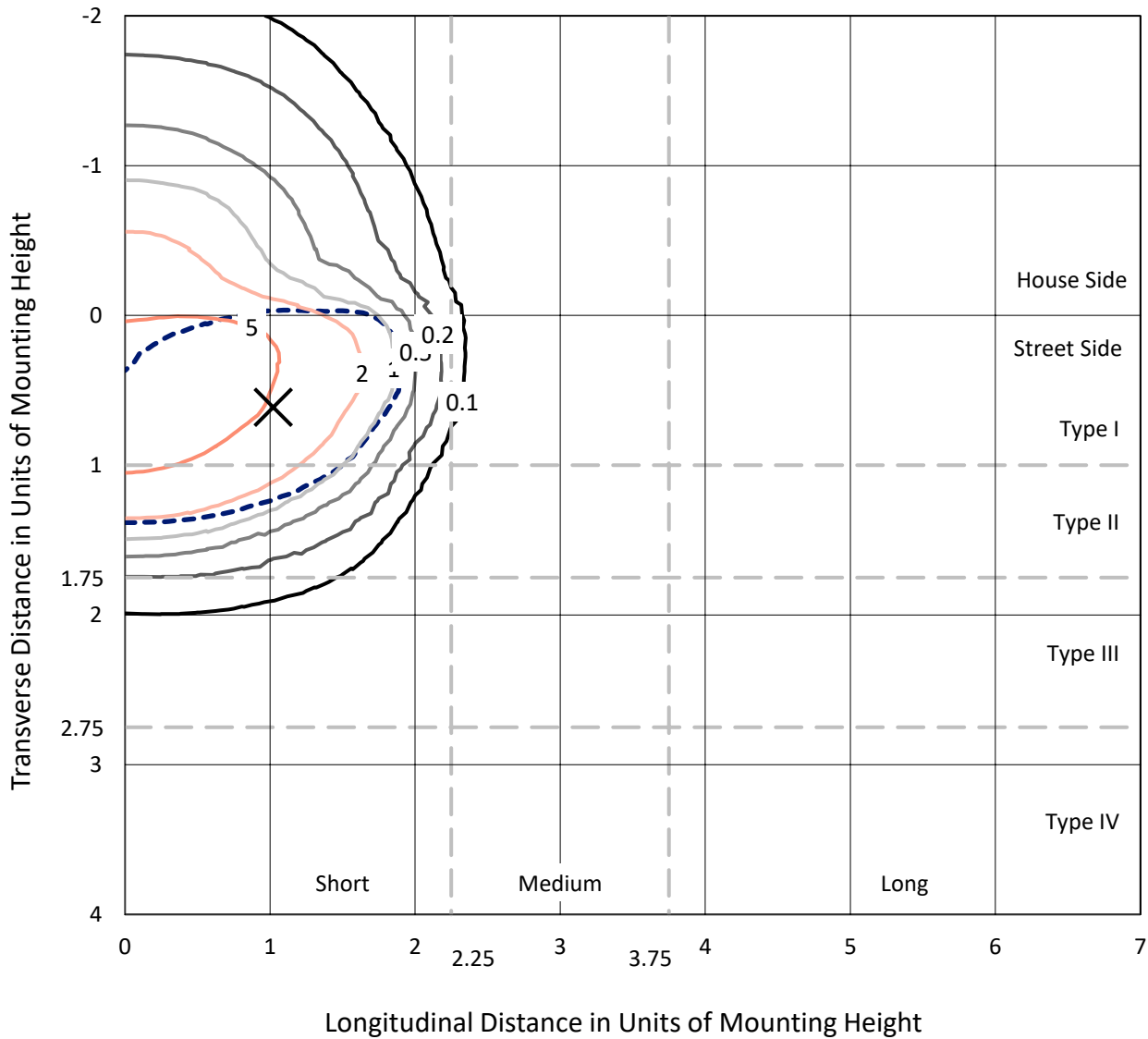
Lumens per Lamp: N/A  
Luminaire Lumens: 17084.2 lumens  
Efficiency: N/A  
Efficacy: 133.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 128.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

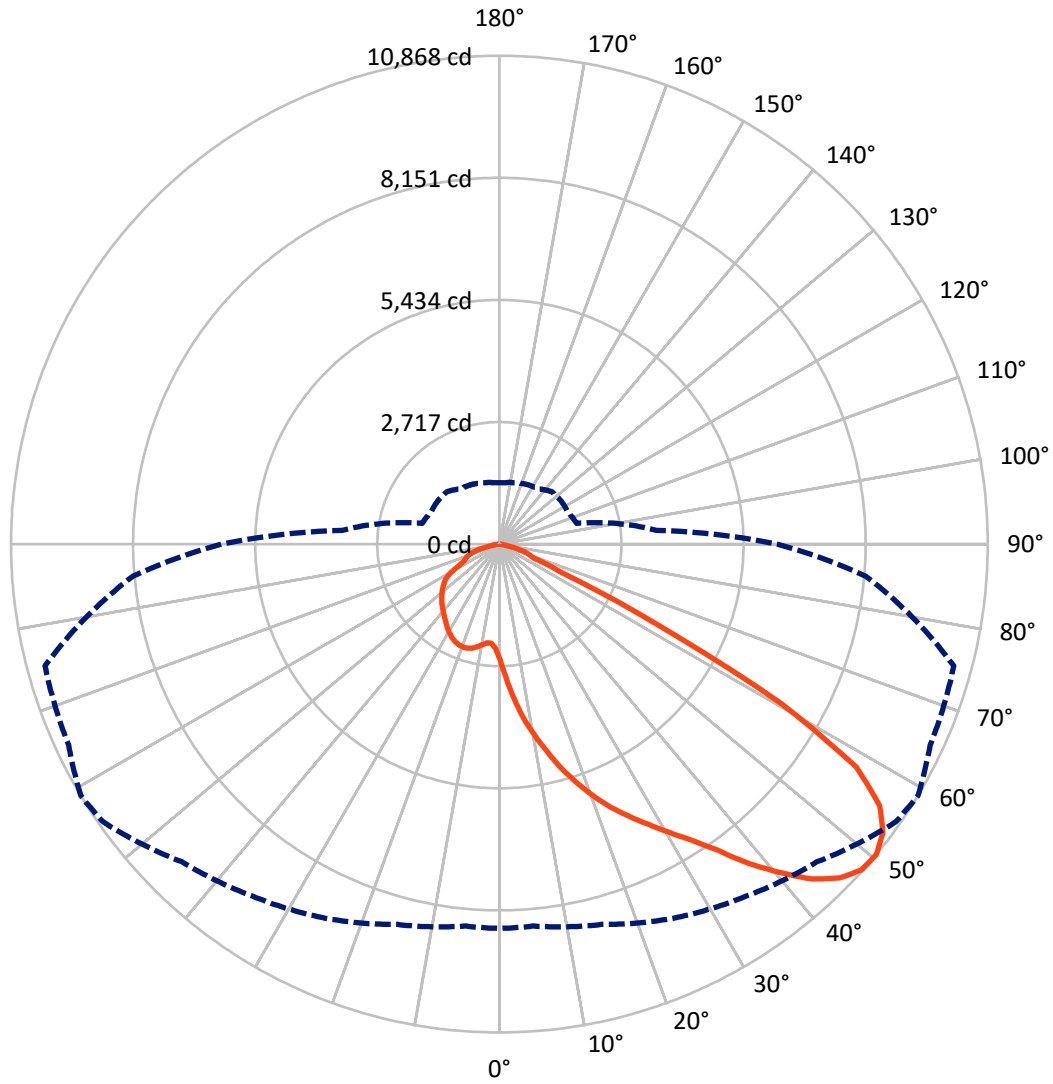
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral    - - - Horizontal Cone Through 50-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3929.7	0.0	3929.7
	% Fixture	23.0	0.0	23.0
<b>Street Side</b>	Lumens	13154.5	0.0	13154.5
	% Fixture	77.0	0.0	77.0
<b>Total</b>	Lumens	17084.2	0.0	17084.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	290.4	1.7
10°-20°	1054.1	6.2
20°-30°	1996.0	11.7
30°-40°	3310.1	19.4
40°-50°	4521.7	26.5
50°-60°	4104.5	24.0
60°-70°	1366.9	8.0
70°-80°	398.7	2.3
80°-90°	41.9	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°	17084.2	100.0
0°-180°	17084.2	100.0

**Coefficient of Utilization**



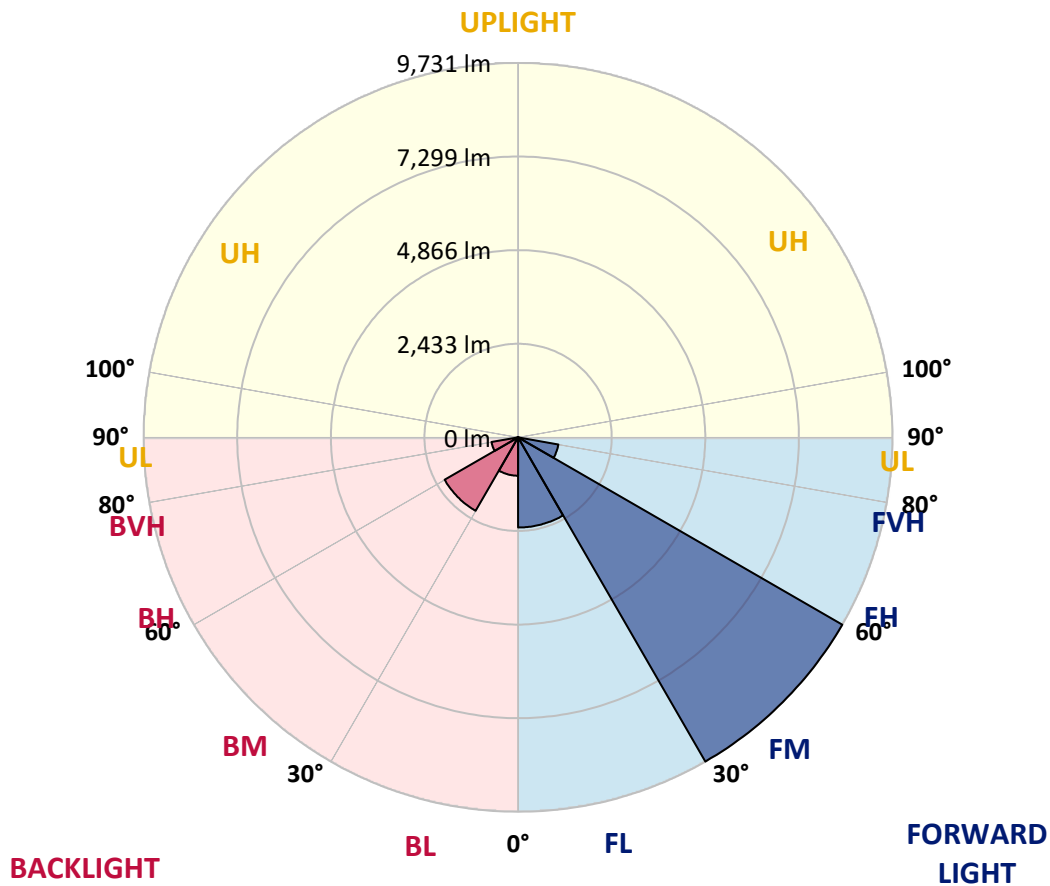
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2342.7	13.7			
FM (30°-60°)	9731.4	57.0			
FH (60°-80°)	1064.1	6.2			G1/1800
FVH (80°-90°)	16.4	0.1			G1/100
BL (0°-30°)	997.8	5.8	B2/1000		
BM (30°-60°)	2204.9	12.9	B2/2500		
BH (60°-80°)	701.4	4.1	B2/1000		G2/1000
BVH (80°-90°)	25.5	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	2588.4	2588.4	2588.4	2588.4	2588.4	2588.4	2588.4	2588.4	2588.4	2588.4	2588.4
2.5°	3353.8	3378.8	3339.8	3342.6	3245.2	3200.7	3075.4	3001.7	2953.0	2816.6	2692.7
5°	4030.1	4000.9	3970.2	3952.1	3867.3	3747.6	3591.7	3467.9	3353.8	3086.6	2829.1
7.5°	4444.8	4429.5	4408.6	4397.5	4314.0	4188.7	4032.9	3927.1	3761.5	3399.7	2994.7
10°	4796.8	4778.8	4766.2	4774.6	4706.4	4625.7	4455.9	4334.8	4148.4	3730.9	3195.1
12.5°	5069.6	5079.3	5083.5	5128.0	5098.8	5050.1	4874.8	4746.7	4539.4	4080.2	3430.3
15°	5285.3	5282.5	5331.2	5416.1	5463.4	5432.8	5292.3	5185.1	4931.8	4423.9	3683.6
17.5°	5335.4	5338.2	5414.7	5563.6	5718.1	5793.2	5713.9	5585.9	5335.4	4763.4	3946.6
20°	5375.8	5381.3	5460.6	5630.4	5855.9	6066.0	6078.5	5986.7	5771.0	5130.8	4213.8
22.5°	5630.4	5642.9	5663.8	5771.0	5974.1	6239.9	6386.1	6366.6	6185.7	5516.3	4501.8
25°	6299.8	6262.2	6160.6	6130.0	6207.9	6423.6	6672.7	6710.3	6621.2	5940.7	4812.2
27.5°	7126.4	7086.0	6935.7	6777.1	6608.7	6683.9	6949.7	7062.4	7063.8	6408.3	5123.9
30°	7876.5	7844.5	7722.0	7495.2	7204.3	7095.8	7292.0	7443.7	7534.1	6948.3	5478.7
32.5°	8518.0	8488.8	8323.2	8138.1	7854.2	7635.7	7706.7	7852.8	8064.3	7646.8	5919.9
35°	9057.9	9028.7	8870.1	8683.6	8420.6	8289.8	8264.7	8364.9	8639.1	8376.0	6426.4
37.5°	9496.3	9467.1	9301.5	9126.1	8925.7	8934.1	8971.6	9020.4	9177.6	9156.7	6967.7
40°	9780.2	9749.6	9631.3	9506.0	9379.4	9479.6	9666.1	9607.6	9691.1	9787.1	7465.9
42.5°	9906.8	9867.8	9799.7	9771.8	9732.9	9888.7	10247.7	10189.3	10089.1	10207.4	7836.1
45°	9780.2	9746.8	9745.4	9830.3	9920.7	10121.1	10649.9	10602.6	10349.3	10410.6	8057.4
47.5°	9391.9	9362.7	9442.0	9664.7	9887.3	10179.6	10829.4	10837.8	10534.4	10495.5	8200.7
50°	8552.8	8533.3	8762.9	9184.6	9568.6	9997.3	10772.4	10868.4	10578.9	10469.0	8182.6
52.5°	6846.7	6937.1	7436.7	8140.9	8886.8	9677.2	10560.9	10686.1	10364.6	10295.1	8085.2
55°	4686.9	4728.7	5228.2	6256.6	7439.5	8984.2	10075.2	10268.6	10111.4	10265.8	8186.8
57.5°	2427.0	2460.3	2854.2	3767.1	5045.9	7099.9	8726.7	9361.3	9600.7	10413.3	8502.7
60°	996.4	1024.2	1187.0	1628.2	2545.2	4134.4	6280.3	7221.0	7783.2	9510.2	7550.8
62.5°	723.6	737.5	815.5	971.3	1333.2	2026.2	3554.1	3900.7	4295.9	5960.2	4794.1
65°	609.5	624.8	687.5	782.1	972.7	1242.7	1518.2	1526.6	1682.4	2428.3	1777.1
67.5°	510.7	524.6	580.3	661.0	786.3	882.3	815.5	816.9	814.1	880.9	851.7
70°	398.0	409.1	464.8	551.1	616.5	566.4	637.4	705.5	676.3	702.8	743.1
72.5°	290.8	303.4	352.1	417.5	400.8	403.6	516.3	585.9	569.2	598.4	636.0
75°	210.1	218.5	243.5	208.7	219.9	265.8	363.2	400.8	417.5	442.5	475.9
77.5°	68.2	68.2	76.5	96.0	119.7	147.5	185.1	200.4	225.4	253.3	276.9
80°	34.8	36.2	43.1	52.9	66.8	84.9	108.5	115.5	128.0	143.3	153.1
82.5°	16.7	18.1	20.9	26.4	34.8	44.5	59.8	66.8	75.1	84.9	91.8
85°	4.2	4.2	5.6	8.3	11.1	16.7	22.3	26.4	33.4	40.4	44.5
87.5°	0.0	0.0	0.0	0.0	0.0	1.4	4.2	5.6	7.0	8.3	11.1
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°	2588.4	2588.4	2588.4	2588.4	2588.4	2588.4	2588.4	2588.4	2588.4	2588.4	2588.4
2.5°	2637.1	2559.2	2459.0	2374.1	2296.1	2236.3	2184.8	2159.8	2136.1	2119.4	2125.0
5°	2709.4	2575.9	2389.4	2260.0	2180.6	2140.3	2112.4	2098.5	2095.8	2084.6	2080.4
7.5°	2815.2	2624.6	2375.5	2244.7	2191.8	2170.9	2155.6	2147.2	2151.4	2140.3	2136.1
10°	2946.0	2705.3	2410.3	2294.7	2248.8	2233.5	2216.8	2205.7	2200.1	2183.4	2180.6
12.5°	3108.8	2805.5	2472.9	2358.8	2312.8	2286.4	2264.1	2244.7	2232.1	2211.3	2205.7
15°	3284.2	2916.8	2546.6	2421.4	2367.1	2328.1	2292.0	2262.7	2240.5	2212.6	2208.5
17.5°	3474.8	3033.7	2607.9	2464.5	2394.9	2343.5	2290.6	2247.4	2216.8	2180.6	2176.5
20°	3673.8	3152.0	2653.8	2485.4	2396.3	2326.8	2255.8	2198.7	2159.8	2123.6	2120.8
22.5°	3879.8	3260.5	2681.6	2479.8	2374.1	2287.8	2202.9	2138.9	2093.0	2049.8	2047.0
25°	4087.1	3364.9	2688.6	2457.6	2329.5	2229.3	2144.5	2069.3	2017.8	1969.1	1963.5
27.5°	4297.3	3452.6	2671.9	2413.0	2269.7	2161.2	2076.3	2002.5	1949.6	1900.9	1892.6
30°	4521.3	3527.7	2635.7	2354.6	2200.1	2088.8	2005.3	1949.6	1899.5	1850.8	1842.5
32.5°	4760.7	3593.1	2584.2	2283.6	2119.4	2016.4	1955.2	1905.1	1855.0	1811.9	1803.5
35°	5045.9	3636.3	2507.7	2191.8	2044.3	1963.5	1921.8	1863.4	1802.1	1754.8	1750.6
37.5°	5341.0	3669.7	2415.8	2104.1	1978.9	1932.9	1898.1	1818.8	1742.3	1685.2	1678.3
40°	5626.2	3697.5	2301.7	2022.0	1919.0	1910.7	1863.4	1764.5	1632.3	1568.3	1562.8
42.5°	5892.0	3705.8	2182.0	1934.3	1864.7	1860.6	1807.7	1654.6	1553.0	1512.7	1507.1
45°	6074.3	3698.9	2058.2	1852.2	1810.5	1788.2	1732.5	1575.3	1512.7	1476.5	1469.5
47.5°	6209.3	3662.7	1919.0	1765.9	1749.2	1718.6	1598.9	1525.2	1466.7	1430.6	1423.6
50°	6185.7	3512.4	1778.5	1682.4	1675.5	1649.0	1501.5	1462.6	1411.1	1372.1	1366.6
52.5°	6063.2	3227.1	1635.1	1590.6	1604.5	1553.0	1432.0	1387.4	1342.9	1298.4	1288.6
55°	6093.8	3021.2	1526.6	1501.5	1526.6	1409.7	1354.0	1306.7	1265.0	1221.8	1213.5
57.5°	6227.4	2818.0	1411.1	1405.5	1432.0	1299.8	1253.8	1194.0	1134.2	1099.4	1099.4
60°	5229.6	2054.0	1207.9	1221.8	1281.7	1210.7	1170.3	1109.1	1043.7	1013.1	1013.1
62.5°	3092.1	1288.6	1002.0	986.6	1024.2	1068.7	1091.0	1040.9	963.0	922.6	924.0
65°	1362.4	937.9	883.7	871.1	860.0	890.6	951.9	956.0	873.9	826.6	828.0
67.5°	839.1	848.9	826.6	816.9	807.1	801.6	796.0	798.8	776.5	733.4	732.0
70°	757.0	783.5	768.2	759.8	747.3	737.5	704.1	649.9	612.3	601.2	613.7
72.5°	651.3	687.5	679.1	674.9	659.6	636.0	591.4	538.5	494.0	466.2	471.8
75°	491.2	520.5	524.6	526.0	509.3	487.1	441.1	396.6	357.6	328.4	335.4
77.5°	282.5	299.2	303.4	307.5	295.0	286.7	256.1	224.0	203.2	172.6	180.9
80°	157.3	164.2	164.2	165.6	158.6	148.9	128.0	109.9	100.2	86.3	87.7
82.5°	94.6	97.4	98.8	100.2	96.0	86.3	71.0	58.4	52.9	45.9	44.5
85°	45.9	48.7	48.7	50.1	43.1	37.6	29.2	22.3	19.5	13.9	15.3
87.5°	11.1	12.5	12.5	11.1	9.7	7.0	4.2	1.4	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)