

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: P637393

Luminaire Tested: GWS-SA4C-760-U-T2R-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P637393  
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-760-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) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

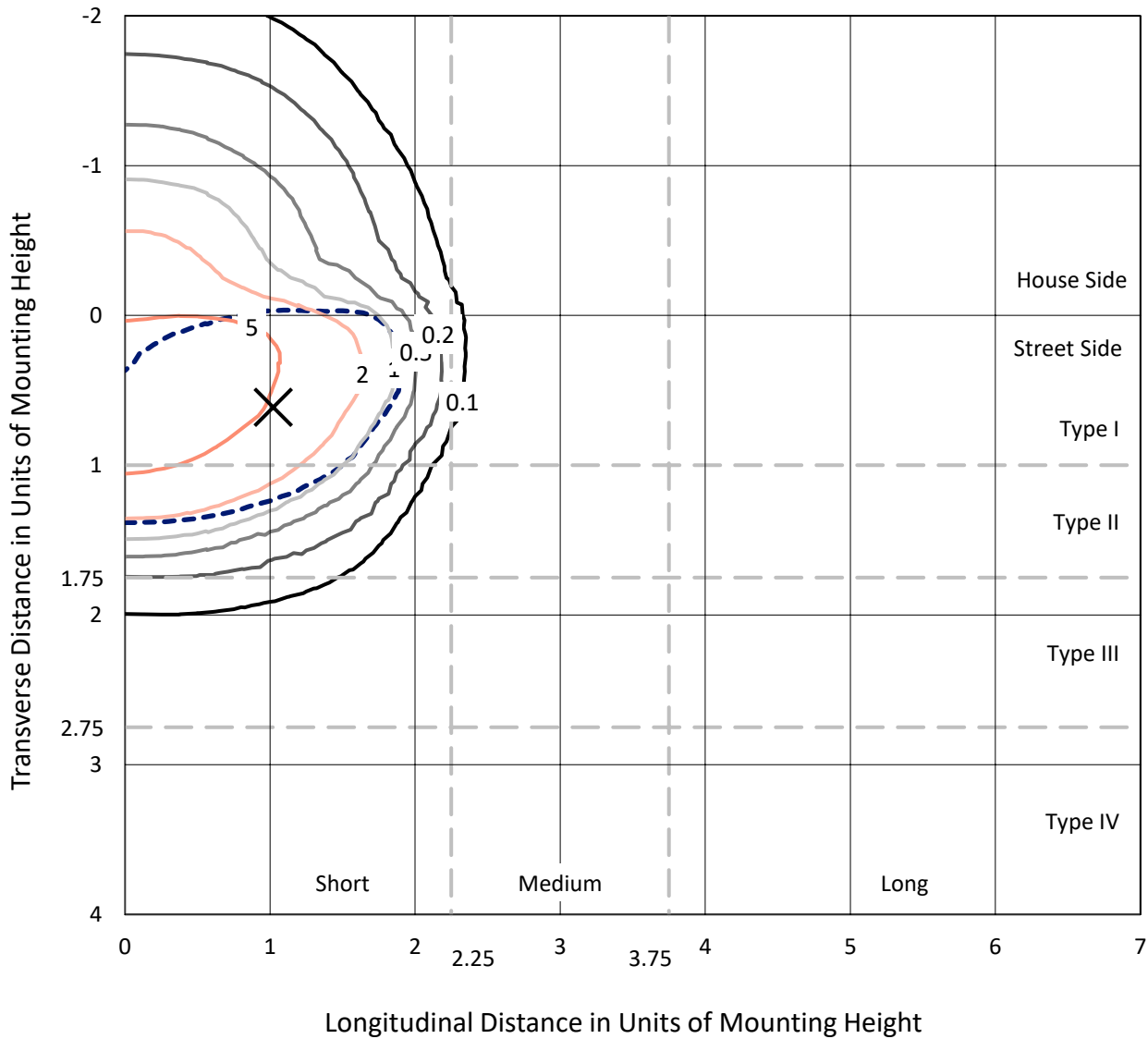
Lumens per Lamp: N/A  
Luminaire Lumens: 17236.2 lumens  
Efficiency: N/A  
Efficacy: 134.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 128.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

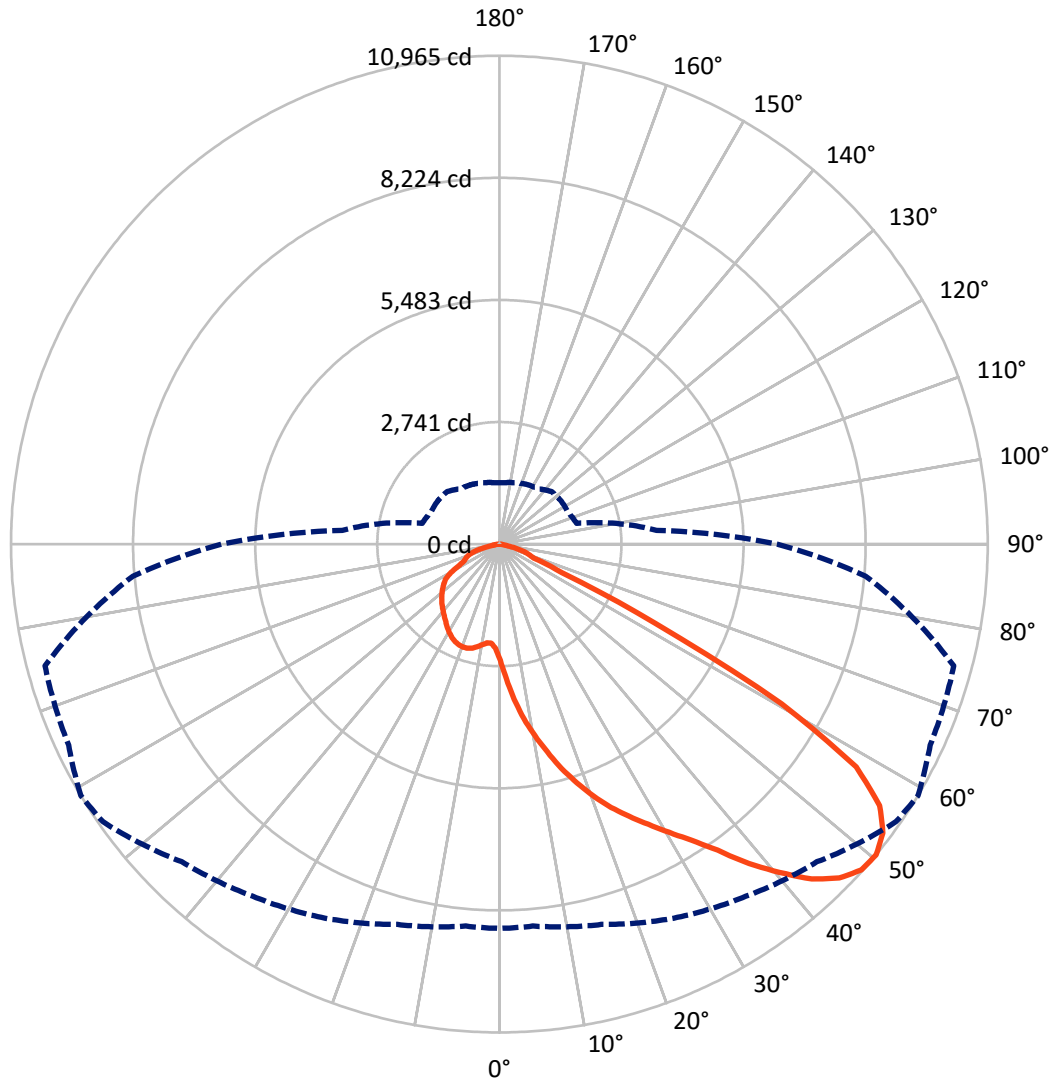
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 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	3964.6	0.0	3964.6
	% Fixture	23.0	0.0	23.0
<b>Street Side</b>	Lumens	13271.5	0.0	13271.5
	% Fixture	77.0	0.0	77.0
<b>Total</b>	Lumens	17236.2	0.0	17236.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	293.0	1.7
10°-20°	1063.5	6.2
20°-30°	2013.8	11.7
30°-40°	3339.5	19.4
40°-50°	4561.9	26.5
50°-60°	4141.1	24.0
60°-70°	1379.0	8.0
70°-80°	402.2	2.3
80°-90°	42.2	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°	17236.2	100.0
0°-180°	17236.2	100.0

**Coefficient of Utilization**



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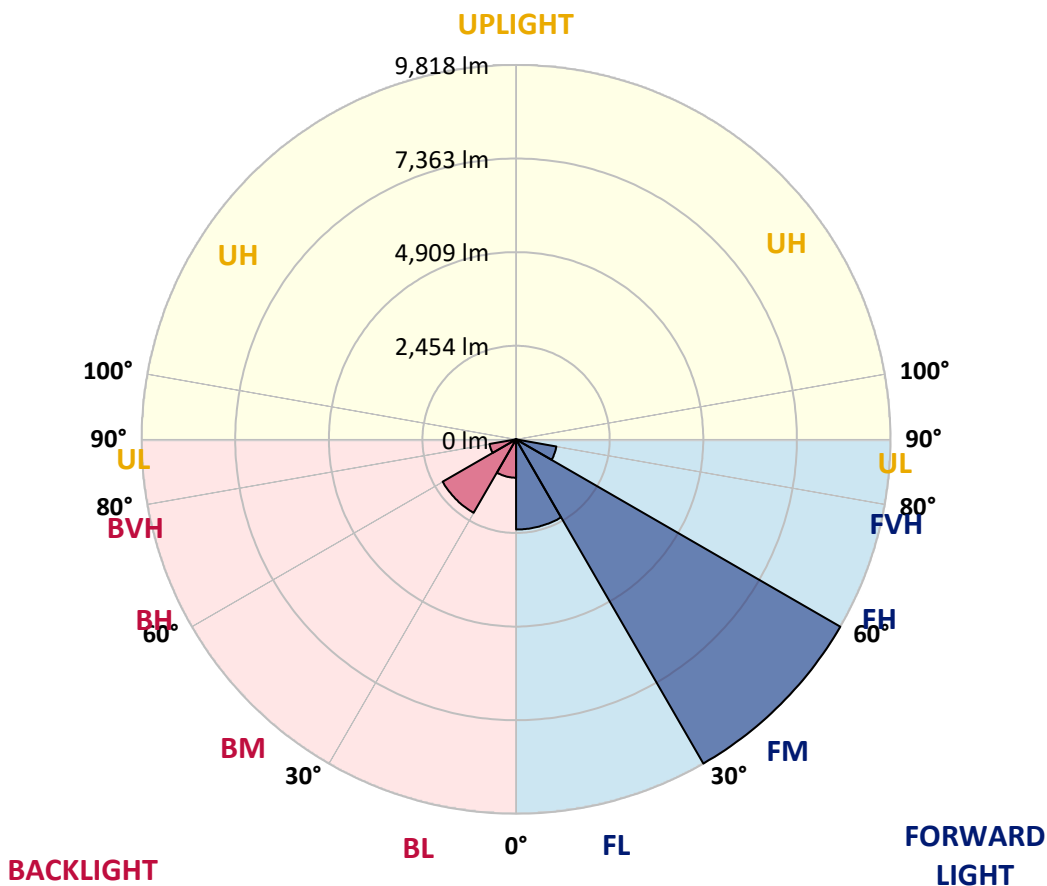
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2363.5	13.7			
FM (30°-60°)	9818.0	57.0			
FH (60°-80°)	1073.6	6.2			G1/1800
FVH (80°-90°)	16.5	0.1			G1/100
BL (0°-30°)	1006.7	5.8	B3/2500		
BM (30°-60°)	2224.6	12.9	B2/2500		
BH (60°-80°)	707.7	4.1	B2/1000		G2/1000
BVH (80°-90°)	25.7	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°	55°	59°	65°	75°	85°
0°	2611.4	2611.4	2611.4	2611.4	2611.4	2611.4	2611.4	2611.4	2611.4	2611.4	2611.4
2.5°	3383.6	3408.9	3369.6	3372.4	3274.1	3229.2	3102.8	3028.4	2979.2	2841.7	2716.7
5°	4065.9	4036.4	4005.6	3987.3	3901.7	3780.9	3623.7	3498.7	3383.6	3114.0	2854.3
7.5°	4484.3	4468.9	4447.8	4436.6	4352.3	4226.0	4068.7	3962.0	3795.0	3429.9	3021.4
10°	4839.5	4821.3	4808.6	4817.1	4748.3	4666.8	4495.5	4373.4	4185.3	3764.1	3223.5
12.5°	5114.7	5124.5	5128.7	5173.7	5144.2	5095.1	4918.1	4789.0	4579.8	4116.5	3460.8
15°	5332.3	5329.5	5378.7	5464.3	5512.0	5481.1	5339.3	5231.2	4975.7	4463.3	3716.3
17.5°	5382.9	5385.7	5462.9	5613.1	5769.0	5844.8	5764.7	5635.6	5382.9	4805.8	3981.7
20°	5423.6	5429.2	5509.2	5680.5	5908.0	6120.0	6132.6	6039.9	5822.3	5176.5	4251.3
22.5°	5680.5	5693.1	5714.2	5822.3	6027.3	6295.5	6442.9	6423.2	6240.7	5565.4	4541.9
25°	6355.8	6317.9	6215.4	6184.5	6263.2	6480.8	6732.1	6770.0	6680.1	5993.6	4855.0
27.5°	7189.8	7149.1	6997.4	6837.4	6667.5	6743.3	7011.5	7125.2	7126.6	6465.3	5169.5
30°	7946.5	7914.2	7790.7	7561.8	7268.4	7158.9	7356.9	7509.9	7601.2	7010.1	5527.5
32.5°	8593.8	8564.3	8397.2	8210.5	7924.1	7703.6	7775.3	7922.7	8136.1	7714.9	5972.5
35°	9138.5	9109.0	8949.0	8760.8	8495.5	8363.5	8338.2	8439.3	8715.9	8450.6	6483.6
37.5°	9580.8	9551.3	9384.2	9207.3	9005.1	9013.6	9051.5	9100.6	9259.3	9238.2	7029.7
40°	9867.2	9836.3	9717.0	9590.6	9462.8	9563.9	9752.1	9693.1	9777.3	9874.2	7532.4
42.5°	9994.9	9955.6	9886.8	9858.8	9819.4	9976.7	10338.9	10280.0	10178.9	10298.2	7905.8
45°	9867.2	9833.5	9832.1	9917.7	10009.0	10211.2	10744.7	10696.9	10441.4	10503.2	8129.1
47.5°	9475.5	9446.0	9526.0	9750.7	9975.3	10270.1	10925.8	10934.2	10628.1	10588.8	8273.7
50°	8628.9	8609.2	8840.9	9266.3	9653.8	10086.2	10868.2	10965.1	10673.1	10562.2	8255.4
52.5°	6907.6	6998.8	7502.9	8213.3	8965.8	9763.3	10654.8	10781.2	10456.9	10386.7	8157.1
55°	4728.6	4770.7	5274.8	6312.3	7505.7	9064.1	10164.8	10360.0	10201.3	10357.2	8259.6
57.5°	2448.5	2482.2	2879.6	3800.6	5090.8	7163.1	8804.4	9444.6	9686.1	10506.0	8578.3
60°	1005.3	1033.3	1197.6	1642.7	2567.9	4171.2	6336.2	7285.3	7852.5	9594.8	7618.0
62.5°	730.1	744.1	822.7	980.0	1345.0	2044.2	3585.8	3935.4	4334.1	6013.3	4836.7
65°	614.9	630.4	693.6	789.0	981.4	1253.8	1531.7	1540.2	1697.4	2449.9	1792.9
67.5°	515.3	529.3	585.5	666.9	793.2	890.1	822.7	824.1	821.3	888.7	859.2
70°	401.5	412.8	468.9	556.0	622.0	571.4	643.0	711.8	682.3	709.0	749.7
72.5°	293.4	306.1	355.2	421.2	404.3	407.2	520.9	591.1	574.2	603.7	641.6
75°	212.0	220.4	245.7	210.6	221.8	268.2	366.4	404.3	421.2	446.5	480.2
77.5°	68.8	68.8	77.2	96.9	120.7	148.8	186.7	202.2	227.4	255.5	279.4
80°	35.1	36.5	43.5	53.4	67.4	85.6	109.5	116.5	129.2	144.6	154.4
82.5°	16.8	18.3	21.1	26.7	35.1	44.9	60.4	67.4	75.8	85.6	92.7
85°	4.2	4.2	5.6	8.4	11.2	16.8	22.5	26.7	33.7	40.7	44.9
87.5°	0.0	0.0	0.0	0.0	0.0	1.4	4.2	5.6	7.0	8.4	11.2
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°	2611.4	2611.4	2611.4	2611.4	2611.4	2611.4	2611.4	2611.4	2611.4	2611.4	2611.4
2.5°	2660.5	2581.9	2480.8	2395.2	2316.6	2256.2	2204.3	2179.0	2155.1	2138.3	2143.9
5°	2733.6	2598.8	2410.6	2280.1	2200.0	2159.3	2131.2	2117.2	2114.4	2103.2	2099.0
7.5°	2840.3	2647.9	2396.6	2264.6	2211.3	2190.2	2174.8	2166.3	2170.6	2159.3	2155.1
10°	2972.2	2729.3	2431.7	2315.2	2268.8	2253.4	2236.5	2225.3	2219.7	2202.8	2200.0
12.5°	3136.5	2830.4	2494.9	2379.7	2333.4	2306.7	2284.3	2264.6	2252.0	2230.9	2225.3
15°	3313.4	2942.7	2569.3	2442.9	2388.2	2348.9	2312.4	2282.9	2260.4	2232.3	2228.1
17.5°	3505.7	3060.7	2631.1	2486.5	2416.3	2364.3	2311.0	2267.4	2236.5	2200.0	2195.8
20°	3706.5	3180.0	2677.4	2507.5	2417.7	2347.5	2275.9	2218.3	2179.0	2142.5	2139.7
22.5°	3914.3	3289.5	2705.5	2501.9	2395.2	2308.1	2222.5	2157.9	2111.6	2068.1	2065.3
25°	4123.5	3394.8	2712.5	2479.4	2350.3	2249.2	2163.5	2087.7	2035.8	1986.6	1981.0
27.5°	4335.5	3483.3	2695.6	2434.5	2289.9	2180.4	2094.7	2020.3	1967.0	1917.8	1909.4
30°	4561.5	3559.1	2659.1	2375.5	2219.7	2107.4	2023.1	1967.0	1916.4	1867.3	1858.9
32.5°	4803.0	3625.1	2607.2	2303.9	2138.3	2034.4	1972.6	1922.1	1871.5	1828.0	1819.6
35°	5090.8	3668.6	2530.0	2211.3	2062.4	1981.0	1938.9	1879.9	1818.2	1770.4	1766.2
37.5°	5388.5	3702.3	2437.3	2122.8	1996.5	1950.1	1915.0	1835.0	1757.8	1700.2	1693.2
40°	5676.3	3730.4	2322.2	2040.0	1936.1	1927.7	1879.9	1780.2	1646.9	1582.3	1576.7
42.5°	5944.5	3738.8	2201.4	1951.5	1881.3	1877.1	1823.8	1669.3	1566.8	1526.1	1520.5
45°	6128.4	3731.8	2076.5	1868.7	1826.6	1804.1	1748.0	1589.3	1526.1	1489.6	1482.6
47.5°	6264.6	3695.3	1936.1	1781.7	1764.8	1733.9	1613.2	1538.8	1479.8	1443.3	1436.3
50°	6240.7	3543.7	1794.3	1697.4	1690.4	1663.7	1514.9	1475.6	1423.6	1384.3	1378.7
52.5°	6117.1	3255.8	1649.7	1604.8	1618.8	1566.8	1444.7	1399.8	1354.8	1309.9	1300.1
55°	6148.0	3048.0	1540.2	1514.9	1540.2	1422.2	1366.1	1318.3	1276.2	1232.7	1224.3
57.5°	6282.8	2843.1	1423.6	1418.0	1444.7	1311.3	1265.0	1204.6	1144.2	1109.1	1109.1
60°	5276.2	2072.3	1218.7	1232.7	1293.1	1221.5	1180.7	1119.0	1053.0	1022.1	1022.1
62.5°	3119.6	1300.1	1010.9	995.4	1033.3	1078.3	1100.7	1050.2	971.6	930.8	932.2
65°	1374.5	946.3	891.5	878.9	867.7	898.5	960.3	964.5	881.7	834.0	835.4
67.5°	846.6	856.4	834.0	824.1	814.3	808.7	803.1	805.9	783.4	739.9	738.5
70°	763.8	790.4	775.0	766.6	753.9	744.1	710.4	655.7	617.8	606.5	619.2
72.5°	657.1	693.6	685.1	680.9	665.5	641.6	596.7	543.3	498.4	470.3	475.9
75°	495.6	525.1	529.3	530.7	513.9	491.4	445.1	400.1	360.8	331.3	338.4
77.5°	285.0	301.9	306.1	310.3	297.6	289.2	258.3	226.0	205.0	174.1	182.5
80°	158.6	165.7	165.7	167.1	160.1	150.2	129.2	110.9	101.1	87.0	88.5
82.5°	95.5	98.3	99.7	101.1	96.9	87.0	71.6	59.0	53.4	46.3	44.9
85°	46.3	49.1	49.1	50.5	43.5	37.9	29.5	22.5	19.7	14.0	15.4
87.5°	11.2	12.6	12.6	11.2	9.8	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)