

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: P639978

Luminaire Tested: GWS-SA5C-830-U-T2R-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P639978  
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-SA5C-830-U-T2R-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (80) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16648.4 lumens  
Efficiency: N/A  
Efficacy: 105.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 157.5  
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

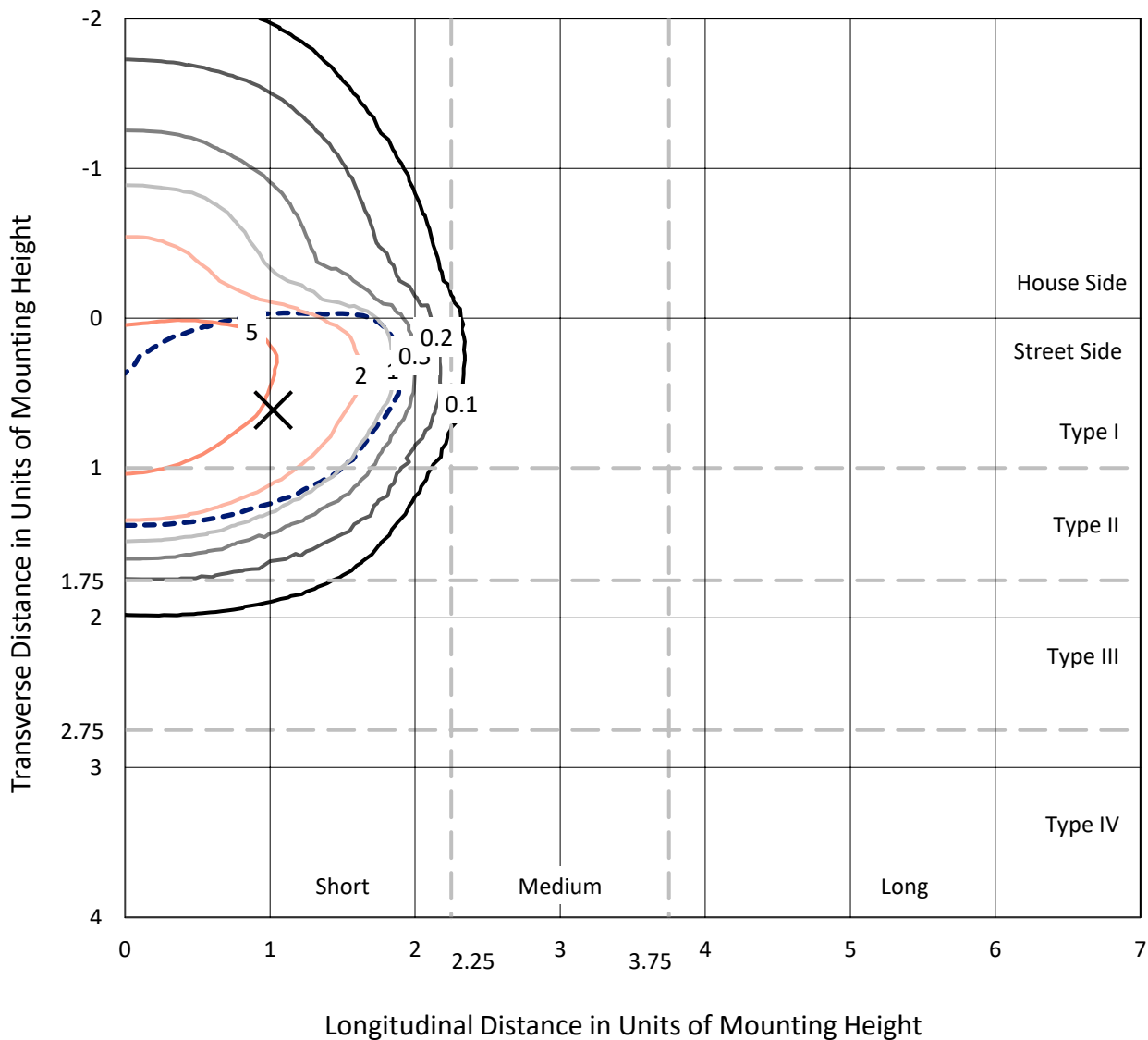


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### Iso-Footcandle Lines of Horizontal Illumination

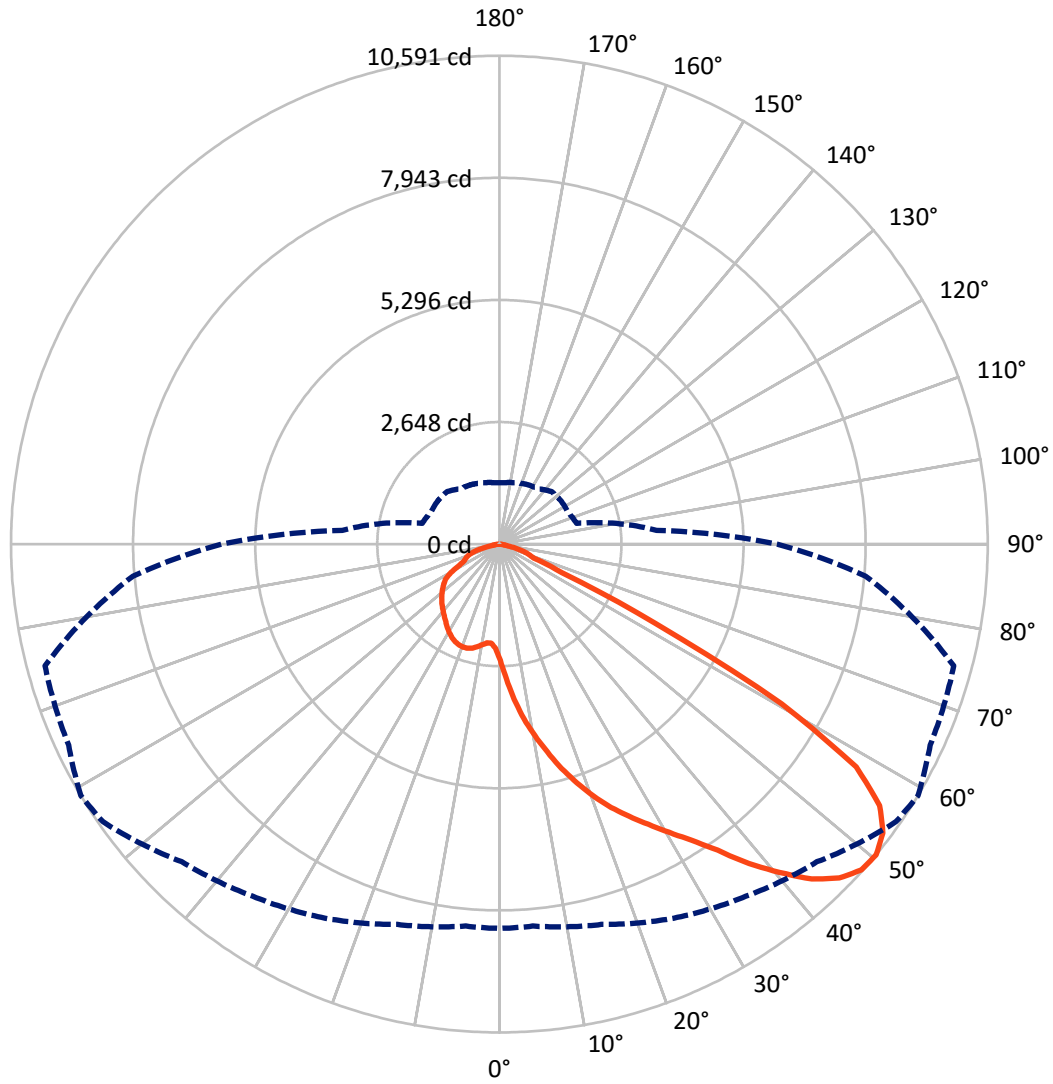
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 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	3829.4	0.0	3829.4
	% Fixture	23.0	0.0	23.0
<b>Street Side</b>	Lumens	12818.9	0.0	12818.9
	% Fixture	77.0	0.0	77.0
<b>Total</b>	Lumens	16648.4	0.0	16648.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	283.0	1.7
10°-20°	1027.2	6.2
20°-30°	1945.1	11.7
30°-40°	3225.6	19.4
40°-50°	4406.4	26.5
50°-60°	3999.8	24.0
60°-70°	1332.0	8.0
70°-80°	388.5	2.3
80°-90°	40.8	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°	16648.4	100.0
0°-180°	16648.4	100.0

**Coefficient of Utilization**



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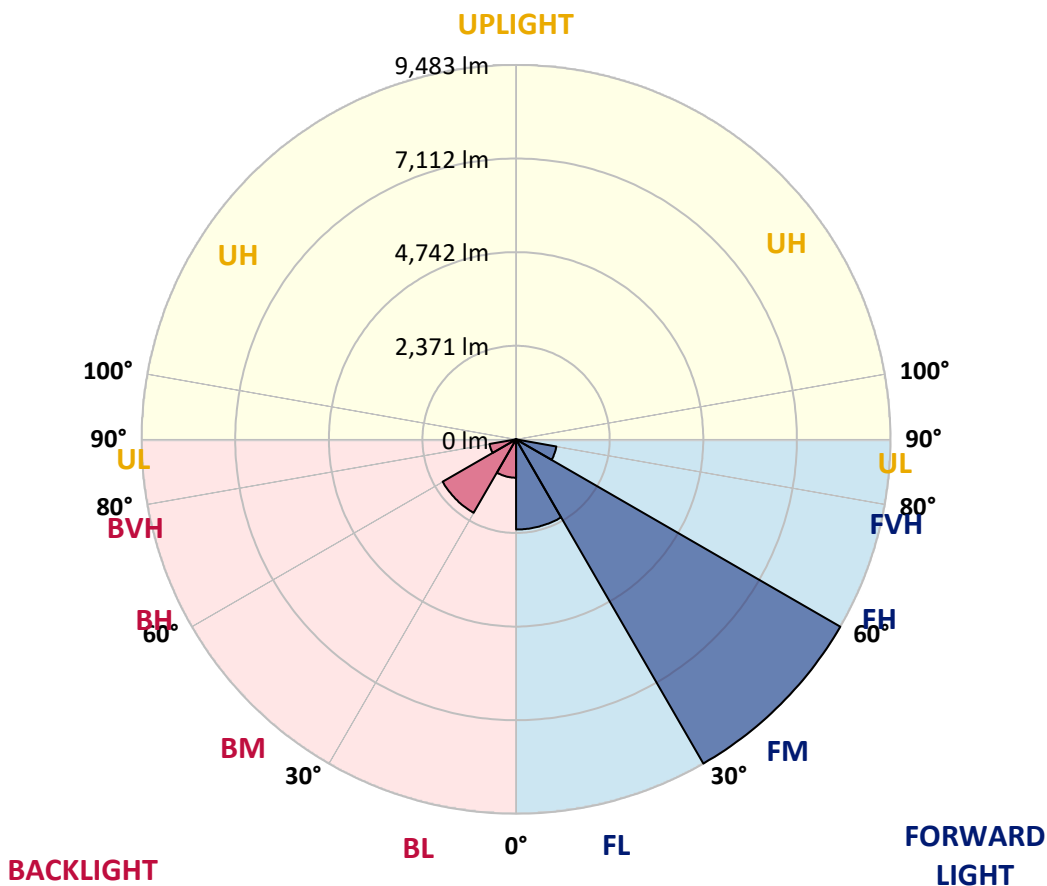
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2282.9	13.7			
FM (30°-60°)	9483.1	57.0			
FH (60°-80°)	1037.0	6.2			G1/1800
FVH (80°-90°)	16.0	0.1			G1/100
BL (0°-30°)	972.4	5.8	B2/1000		
BM (30°-60°)	2148.7	12.9	B2/2500		
BH (60°-80°)	683.5	4.1	B2/1000		G2/1000
BVH (80°-90°)	24.9	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: 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°	2522.4	2522.4	2522.4	2522.4	2522.4	2522.4	2522.4	2522.4	2522.4	2522.4	2522.4
2.5°	3268.2	3292.6	3254.6	3257.4	3162.4	3119.0	2997.0	2925.1	2877.6	2744.8	2624.1
5°	3927.3	3898.8	3869.0	3851.3	3768.6	3652.0	3500.1	3379.4	3268.2	3007.8	2757.0
7.5°	4331.4	4316.5	4296.1	4285.3	4203.9	4081.9	3930.0	3826.9	3665.5	3313.0	2918.3
10°	4674.5	4656.9	4644.7	4652.8	4586.3	4507.7	4342.2	4224.3	4042.5	3635.7	3113.6
12.5°	4940.3	4949.8	4953.8	4997.2	4968.8	4921.3	4750.4	4625.7	4423.6	3976.1	3342.8
15°	5150.5	5147.8	5195.2	5278.0	5324.1	5294.2	5157.3	5052.8	4806.0	4311.0	3589.6
17.5°	5199.3	5202.0	5276.6	5421.7	5572.2	5645.5	5568.2	5443.4	5199.3	4641.9	3845.9
20°	5238.6	5244.0	5321.3	5486.8	5706.5	5911.3	5923.5	5834.0	5623.8	4999.9	4106.3
22.5°	5486.8	5499.0	5519.3	5623.8	5821.7	6080.8	6223.2	6204.2	6027.9	5375.6	4387.0
25°	6139.1	6102.5	6003.5	5973.6	6049.6	6259.8	6502.5	6539.1	6452.3	5789.2	4689.4
27.5°	6944.6	6905.3	6758.8	6604.2	6440.1	6513.4	6772.4	6882.2	6883.6	6244.9	4993.2
30°	7675.5	7644.3	7525.0	7304.0	7020.5	6914.8	7106.0	7253.8	7341.9	6771.0	5339.0
32.5°	8300.7	8272.2	8110.8	7930.5	7653.8	7440.9	7510.1	7652.5	7858.6	7451.8	5768.9
35°	8826.9	8798.4	8643.8	8462.1	8205.8	8078.3	8053.9	8151.5	8418.7	8162.4	6262.5
37.5°	9254.0	9225.6	9064.2	8893.3	8698.0	8706.2	8742.8	8790.3	8943.5	8923.2	6790.0
40°	9530.7	9500.9	9385.6	9263.5	9140.1	9237.8	9419.5	9362.5	9443.9	9537.5	7275.5
42.5°	9654.1	9616.1	9549.7	9522.6	9484.6	9636.5	9986.3	9929.4	9831.7	9947.0	7636.2
45°	9530.7	9498.1	9496.8	9579.5	9667.7	9862.9	10378.3	10332.1	10085.3	10145.0	7851.8
47.5°	9152.3	9123.9	9201.2	9418.1	9635.1	9919.9	10553.2	10561.3	10265.7	10227.7	7991.5
50°	8334.6	8315.6	8539.4	8950.3	9324.6	9742.2	10497.6	10591.2	10309.1	10202.0	7973.9
52.5°	6672.0	6760.2	7247.0	7933.2	8660.1	9430.3	10291.5	10413.5	10100.3	10032.4	7879.0
55°	4567.4	4608.0	5094.9	6097.0	7249.7	8755.0	9818.2	10006.7	9853.4	10004.0	7977.9
57.5°	2365.0	2397.6	2781.4	3671.0	4917.2	6918.8	8504.1	9122.5	9355.7	10147.7	8285.8
60°	971.0	998.1	1156.8	1586.6	2480.3	4029.0	6120.1	7036.8	7584.7	9267.6	7358.2
62.5°	705.2	718.7	794.7	946.6	1299.1	1974.5	3463.5	3801.2	4186.3	5808.2	4671.8
65°	594.0	608.9	669.9	762.1	947.9	1211.0	1479.5	1487.6	1639.5	2366.4	1731.7
67.5°	497.7	511.3	565.5	644.1	766.2	859.8	794.7	796.0	793.3	858.4	829.9
70°	387.8	398.7	452.9	537.0	600.8	551.9	621.1	687.5	659.1	684.8	724.2
72.5°	283.4	295.6	343.1	406.8	390.6	393.3	503.1	570.9	554.6	583.1	619.7
75°	204.8	212.9	237.3	203.4	214.3	259.0	353.9	390.6	406.8	431.2	463.8
77.5°	66.4	66.4	74.6	93.6	116.6	143.7	180.4	195.3	219.7	246.8	269.9
80°	33.9	35.3	42.0	51.5	65.1	82.7	105.8	112.6	124.8	139.7	149.2
82.5°	16.3	17.6	20.3	25.8	33.9	43.4	58.3	65.1	73.2	82.7	89.5
85°	4.1	4.1	5.4	8.1	10.8	16.3	21.7	25.8	32.5	39.3	43.4
87.5°	0.0	0.0	0.0	0.0	0.0	1.4	4.1	5.4	6.8	8.1	10.8
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°	2522.4	2522.4	2522.4	2522.4	2522.4	2522.4	2522.4	2522.4	2522.4	2522.4	2522.4
2.5°	2569.8	2493.9	2396.2	2313.5	2237.6	2179.3	2129.1	2104.7	2081.6	2065.3	2070.8
5°	2640.3	2510.1	2328.4	2202.3	2125.0	2085.7	2058.6	2045.0	2042.3	2031.4	2027.4
7.5°	2743.4	2557.6	2314.9	2187.4	2135.9	2115.5	2100.6	2092.5	2096.5	2085.7	2081.6
10°	2870.9	2636.3	2348.8	2236.2	2191.5	2176.5	2160.3	2149.4	2144.0	2127.7	2125.0
12.5°	3029.5	2733.9	2409.8	2298.6	2253.8	2228.1	2206.4	2187.4	2175.2	2154.8	2149.4
15°	3200.4	2842.4	2481.7	2359.6	2306.7	2268.8	2233.5	2205.0	2183.3	2156.2	2152.1
17.5°	3386.2	2956.3	2541.3	2401.7	2333.9	2283.7	2232.1	2190.1	2160.3	2125.0	2120.9
20°	3580.1	3071.6	2586.1	2422.0	2335.2	2267.4	2198.2	2142.6	2104.7	2069.4	2066.7
22.5°	3780.8	3177.3	2613.2	2416.6	2313.5	2229.4	2146.7	2084.3	2039.6	1997.5	1994.8
25°	3982.9	3279.1	2620.0	2394.9	2270.1	2172.5	2089.8	2016.5	1966.3	1918.9	1913.5
27.5°	4187.6	3364.5	2603.7	2351.5	2211.8	2106.0	2023.3	1951.4	1899.9	1852.4	1844.3
30°	4406.0	3437.7	2568.5	2294.5	2144.0	2035.5	1954.1	1899.9	1851.1	1803.6	1795.5
32.5°	4639.2	3501.5	2518.3	2225.4	2065.3	1965.0	1905.3	1856.5	1807.7	1765.6	1757.5
35°	4917.2	3543.5	2443.7	2135.9	1992.1	1913.5	1872.8	1815.8	1756.2	1710.0	1706.0
37.5°	5204.7	3576.0	2354.2	2050.4	1928.4	1883.6	1849.7	1772.4	1697.8	1642.2	1635.5
40°	5482.7	3603.2	2243.0	1970.4	1870.1	1861.9	1815.8	1719.5	1590.7	1528.3	1522.9
42.5°	5741.7	3611.3	2126.4	1885.0	1817.2	1813.1	1761.6	1612.4	1513.4	1474.1	1468.7
45°	5919.4	3604.5	2005.7	1805.0	1764.3	1742.6	1688.3	1535.1	1474.1	1438.8	1432.0
47.5°	6050.9	3569.3	1870.1	1720.9	1704.6	1674.8	1558.2	1486.3	1429.3	1394.1	1387.3
50°	6027.9	3422.8	1733.1	1639.5	1632.7	1607.0	1463.2	1425.3	1375.1	1337.1	1331.7
52.5°	5908.5	3144.8	1593.4	1550.0	1563.6	1513.4	1395.4	1352.0	1308.6	1265.2	1255.8
55°	5938.4	2944.1	1487.6	1463.2	1487.6	1373.7	1319.5	1273.4	1232.7	1190.7	1182.5
57.5°	6068.6	2746.1	1375.1	1369.7	1395.4	1266.6	1221.8	1163.5	1105.2	1071.3	1071.3
60°	5096.2	2001.6	1177.1	1190.7	1249.0	1179.8	1140.5	1080.8	1017.1	987.2	987.2
62.5°	3013.3	1255.8	976.4	961.5	998.1	1041.5	1063.2	1014.4	938.4	899.1	900.5
65°	1327.6	914.0	861.1	848.9	838.1	867.9	927.6	931.6	851.6	805.5	806.9
67.5°	817.7	827.2	805.5	796.0	786.5	781.1	775.7	778.4	756.7	714.7	713.3
70°	737.7	763.5	748.6	740.4	728.2	718.7	686.2	633.3	596.7	585.8	598.0
72.5°	634.7	669.9	661.8	657.7	642.8	619.7	576.3	524.8	481.4	454.3	459.7
75°	478.7	507.2	511.3	512.6	496.3	474.6	429.9	386.5	348.5	320.0	326.8
77.5°	275.3	291.6	295.6	299.7	287.5	279.4	249.5	218.3	198.0	168.2	176.3
80°	153.2	160.0	160.0	161.4	154.6	145.1	124.8	107.1	97.6	84.1	85.4
82.5°	92.2	94.9	96.3	97.6	93.6	84.1	69.2	57.0	51.5	44.8	43.4
85°	44.8	47.5	47.5	48.8	42.0	36.6	28.5	21.7	19.0	13.6	14.9
87.5°	10.8	12.2	12.2	10.8	9.5	6.8	4.1	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)