

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: P639263

Luminaire Tested: GWS-SA5B-740-U-T2R-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P639263  
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-SA5B-740-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) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

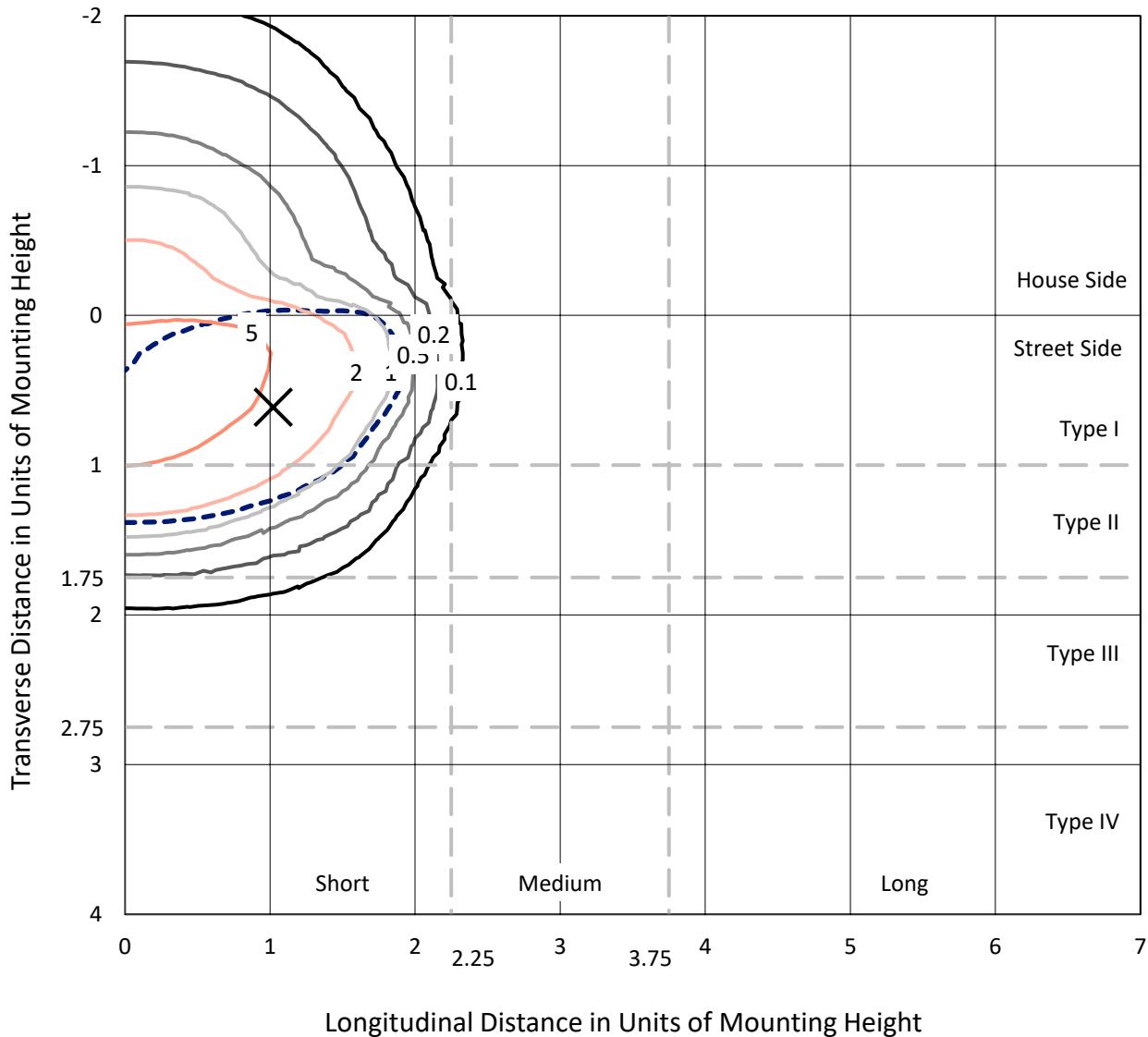
Lumens per Lamp: N/A  
Luminaire Lumens: 15626.9 lumens  
Efficiency: N/A  
Efficacy: 135.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 115.7  
Input Voltage (V): 120  
Input Current (Ain): 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

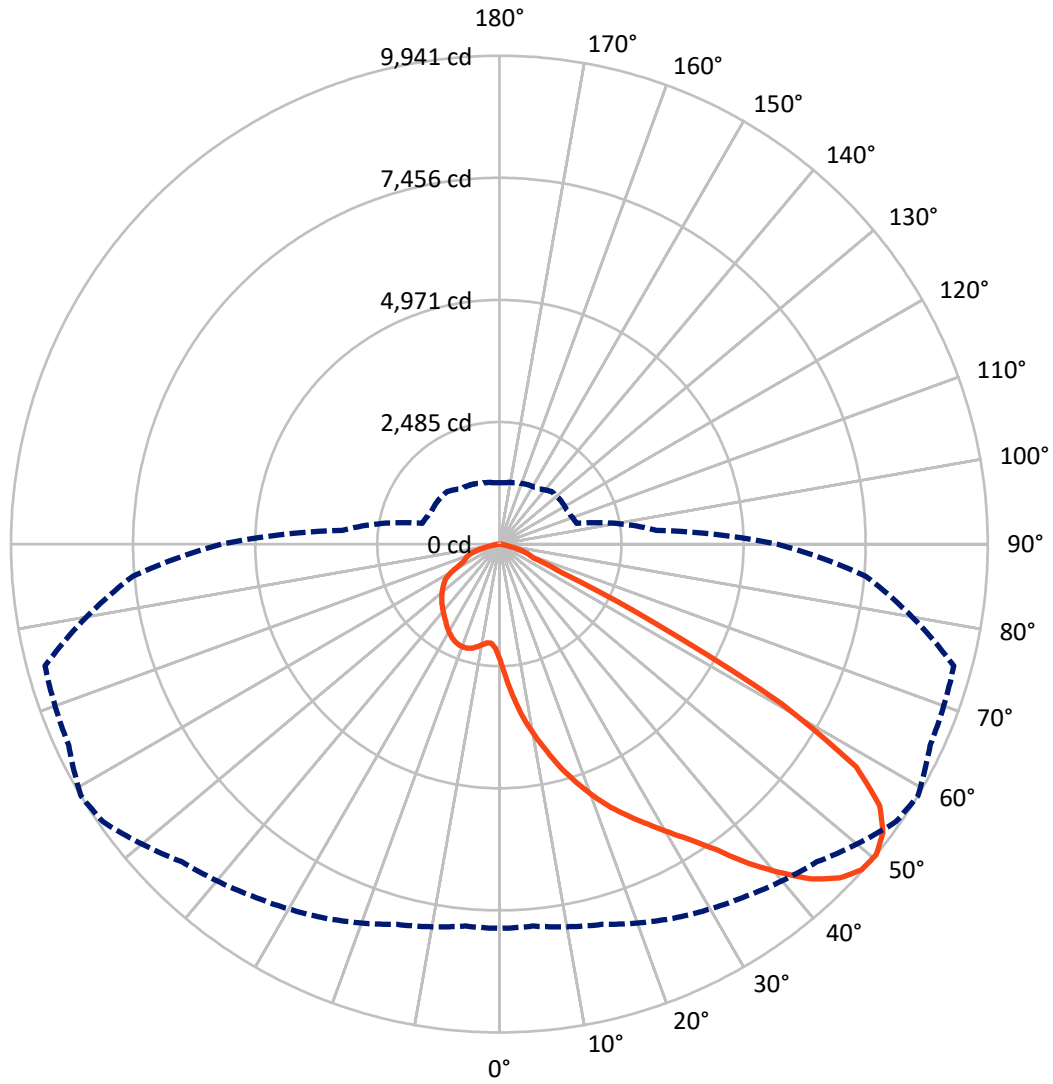
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 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	3594.5	0.0	3594.5
	% Fixture	23.0	0.0	23.0
<b>Street Side</b>	Lumens	12032.4	0.0	12032.4
	% Fixture	77.0	0.0	77.0
<b>Total</b>	Lumens	15626.9	0.0	15626.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	265.6	1.7
10°-20°	964.2	6.2
20°-30°	1825.8	11.7
30°-40°	3027.7	19.4
40°-50°	4136.0	26.5
50°-60°	3754.4	24.0
60°-70°	1250.3	8.0
70°-80°	364.7	2.3
80°-90°	38.3	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°	15626.9	100.0
0°-180°	15626.9	100.0

**Coefficient of Utilization**



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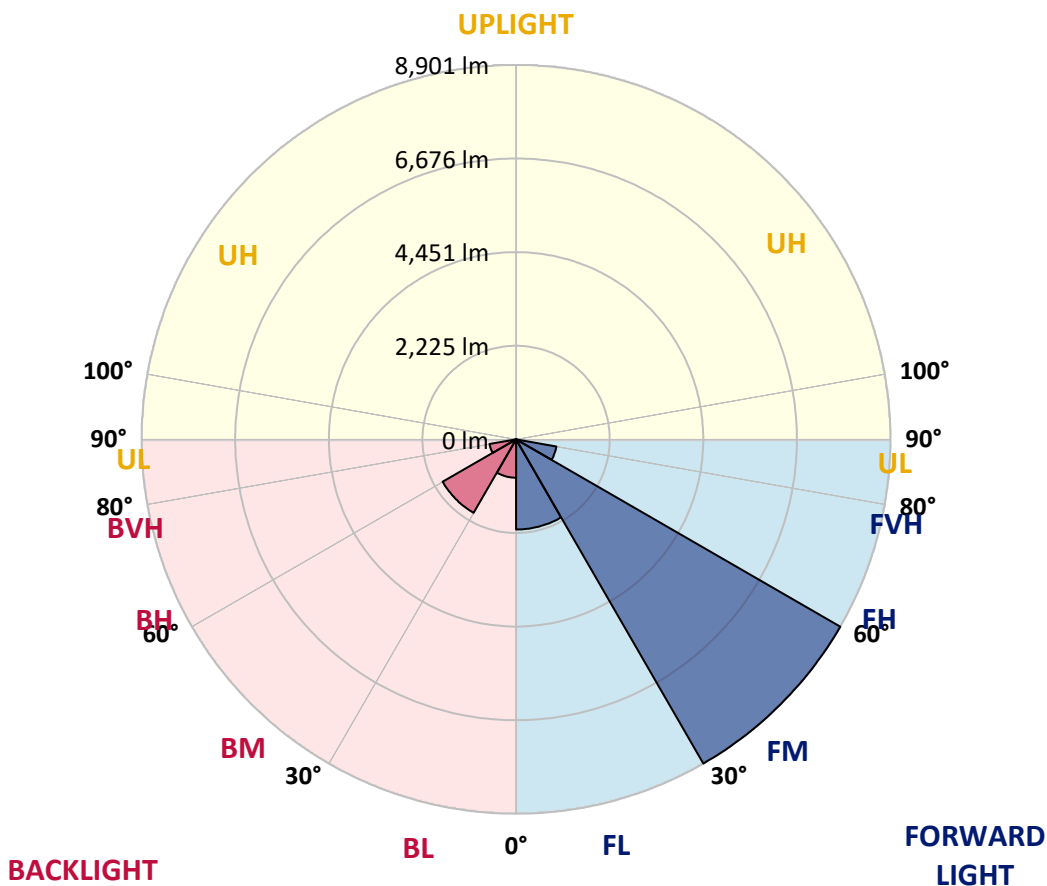
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2142.8	13.7			
FM (30°-60°)	8901.3	57.0			
FH (60°-80°)	973.3	6.2			G1/1800
FVH (80°-90°)	15.0	0.1			G1/100
BL (0°-30°)	912.7	5.8	B2/1000		
BM (30°-60°)	2016.9	12.9	B2/2500		
BH (60°-80°)	641.6	4.1	B2/1000		G2/1000
BVH (80°-90°)	23.3	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°	2367.6	2367.6	2367.6	2367.6	2367.6	2367.6	2367.6	2367.6	2367.6	2367.6	2367.6
2.5°	3067.7	3090.6	3054.9	3057.5	2968.4	2927.7	2813.1	2745.6	2701.1	2576.3	2463.1
5°	3686.3	3659.6	3631.6	3615.0	3537.4	3427.9	3285.3	3172.1	3067.7	2823.3	2587.8
7.5°	4065.6	4051.6	4032.5	4022.4	3946.0	3831.4	3688.9	3592.1	3440.6	3109.7	2739.3
10°	4387.7	4371.1	4359.7	4367.3	4304.9	4231.1	4075.8	3965.1	3794.5	3412.6	2922.6
12.5°	4637.2	4646.1	4649.9	4690.6	4663.9	4619.3	4459.0	4341.8	4152.2	3732.1	3137.7
15°	4834.5	4831.9	4876.5	4954.1	4997.4	4969.4	4840.8	4742.8	4511.1	4046.5	3369.4
17.5°	4880.3	4882.8	4952.8	5089.0	5230.3	5299.1	5226.5	5109.4	4880.3	4357.1	3609.9
20°	4917.2	4922.3	4994.8	5150.1	5356.3	5548.6	5560.0	5476.0	5278.7	4693.2	3854.3
22.5°	5150.1	5161.6	5180.7	5278.7	5464.5	5707.7	5841.3	5823.5	5658.0	5045.8	4117.8
25°	5762.4	5728.0	5635.1	5607.1	5678.4	5875.7	6103.5	6137.9	6056.4	5434.0	4401.7
27.5°	6518.5	6481.6	6344.1	6199.0	6045.0	6113.7	6356.8	6459.9	6461.2	5861.7	4686.8
30°	7204.6	7175.3	7063.3	6855.8	6589.8	6490.5	6670.0	6808.7	6891.5	6355.6	5011.4
32.5°	7791.4	7764.7	7613.2	7443.9	7184.2	6984.4	7049.3	7182.9	7376.4	6994.6	5414.9
35°	8285.3	8258.5	8113.4	7942.9	7702.3	7582.6	7559.7	7651.4	7902.1	7661.6	5878.2
37.5°	8686.2	8659.5	8508.0	8347.6	8164.4	8172.0	8206.4	8250.9	8394.7	8375.7	6373.4
40°	8945.9	8917.9	8809.7	8695.1	8579.3	8671.0	8841.5	8788.1	8864.4	8952.3	6829.1
42.5°	9061.7	9026.1	8963.7	8938.3	8902.6	9045.2	9373.6	9320.1	9228.5	9336.7	7167.7
45°	8945.9	8915.4	8914.1	8991.7	9074.5	9257.8	9741.5	9698.2	9466.5	9522.5	7370.1
47.5°	8590.8	8564.0	8636.6	8840.3	9043.9	9311.2	9905.7	9913.3	9635.8	9600.2	7501.2
50°	7823.2	7805.4	8015.4	8401.1	8752.4	9144.5	9853.5	9941.3	9676.6	9576.0	7484.6
52.5°	6262.6	6345.4	6802.4	7446.4	8128.7	8851.7	9660.0	9774.6	9480.5	9416.9	7395.5
55°	4287.1	4325.3	4782.3	5722.9	6804.9	8217.8	9215.8	9392.7	9248.9	9390.2	7488.4
57.5°	2219.9	2250.5	2610.7	3445.7	4615.5	6494.3	7982.3	8562.8	8781.7	9525.1	7777.4
60°	911.4	936.9	1085.8	1489.3	2328.1	3781.8	5744.6	6605.1	7119.3	8699.0	6906.7
62.5°	661.9	674.6	745.9	888.5	1219.4	1853.3	3251.0	3567.9	3929.4	5451.8	4385.1
65°	557.5	571.5	628.8	715.4	889.8	1136.7	1388.7	1396.4	1538.9	2221.2	1625.5
67.5°	467.2	479.9	530.8	604.6	719.2	807.0	745.9	747.2	744.6	805.7	779.0
70°	364.0	374.2	425.1	504.1	563.9	518.1	583.0	645.4	618.6	642.8	679.7
72.5°	266.0	277.5	322.0	381.9	366.6	369.1	472.2	535.9	520.6	547.3	581.7
75°	192.2	199.8	222.8	190.9	201.1	243.1	332.2	366.6	381.9	404.8	435.3
77.5°	62.4	62.4	70.0	87.8	109.5	134.9	169.3	183.3	206.2	231.7	253.3
80°	31.8	33.1	39.5	48.4	61.1	77.6	99.3	105.7	117.1	131.1	140.0
82.5°	15.3	16.5	19.1	24.2	31.8	40.7	54.7	61.1	68.7	77.6	84.0
85°	3.8	3.8	5.1	7.6	10.2	15.3	20.4	24.2	30.5	36.9	40.7
87.5°	0.0	0.0	0.0	0.0	0.0	1.3	3.8	5.1	6.4	7.6	10.2
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°	2367.6	2367.6	2367.6	2367.6	2367.6	2367.6	2367.6	2367.6	2367.6	2367.6	2367.6
2.5°	2412.1	2340.9	2249.2	2171.6	2100.3	2045.5	1998.4	1975.5	1953.9	1938.6	1943.7
5°	2478.3	2356.1	2185.6	2067.2	1994.6	1957.7	1932.3	1919.5	1917.0	1906.8	1903.0
7.5°	2575.1	2400.7	2172.8	2053.2	2004.8	1985.7	1971.7	1964.1	1967.9	1957.7	1953.9
10°	2694.7	2474.5	2204.7	2099.0	2057.0	2043.0	2027.7	2017.5	2012.4	1997.2	1994.6
12.5°	2843.6	2566.2	2261.9	2157.6	2115.6	2091.4	2071.0	2053.2	2041.7	2022.6	2017.5
15°	3004.0	2668.0	2329.4	2214.8	2165.2	2129.6	2096.5	2069.7	2049.4	2023.9	2020.1
17.5°	3178.4	2774.9	2385.4	2254.3	2190.7	2143.6	2095.2	2055.7	2027.7	1994.6	1990.8
20°	3360.4	2883.1	2427.4	2273.4	2191.9	2128.3	2063.4	2011.2	1975.5	1942.4	1939.9
22.5°	3548.8	2982.4	2452.9	2268.3	2171.6	2092.6	2015.0	1956.4	1914.4	1875.0	1872.4
25°	3738.5	3077.9	2459.2	2247.9	2130.8	2039.2	1961.5	1892.8	1845.7	1801.1	1796.1
27.5°	3930.7	3158.1	2444.0	2207.2	2076.1	1976.8	1899.2	1831.7	1783.3	1738.8	1731.1
30°	4135.6	3226.8	2410.9	2153.7	2012.4	1910.6	1834.2	1783.3	1737.5	1693.0	1685.3
32.5°	4354.6	3286.6	2363.8	2088.8	1938.6	1844.4	1788.4	1742.6	1696.8	1657.3	1649.7
35°	4615.5	3326.1	2293.8	2004.8	1869.9	1796.1	1757.9	1704.4	1648.4	1605.1	1601.3
37.5°	4885.4	3356.6	2209.7	1924.6	1810.1	1768.1	1736.2	1663.7	1593.7	1541.5	1535.1
40°	5146.3	3382.1	2105.4	1849.5	1755.3	1747.7	1704.4	1614.0	1493.1	1434.6	1429.5
42.5°	5389.4	3389.7	1995.9	1769.3	1705.7	1701.9	1653.5	1513.5	1420.6	1383.6	1378.5
45°	5556.2	3383.4	1882.6	1694.2	1656.0	1635.7	1584.8	1440.9	1383.6	1350.5	1344.2
47.5°	5679.7	3350.3	1755.3	1615.3	1600.0	1572.0	1462.6	1395.1	1341.6	1308.5	1302.2
50°	5658.0	3212.8	1626.8	1538.9	1532.6	1508.4	1373.5	1337.8	1290.7	1255.1	1250.0
52.5°	5546.0	2951.8	1495.7	1454.9	1467.6	1420.6	1309.8	1269.1	1228.3	1187.6	1178.7
55°	5574.0	2763.5	1396.4	1373.5	1396.4	1289.4	1238.5	1195.2	1157.1	1117.6	1110.0
57.5°	5696.2	2577.6	1290.7	1285.6	1309.8	1188.9	1146.9	1092.1	1037.4	1005.6	1005.6
60°	4783.5	1878.8	1104.9	1117.6	1172.3	1107.4	1070.5	1014.5	954.7	926.7	926.7
62.5°	2828.4	1178.7	916.5	902.5	936.9	977.6	998.0	952.1	880.8	843.9	845.2
65°	1246.2	857.9	808.3	796.8	786.6	814.7	870.7	874.5	799.4	756.1	757.4
67.5°	767.6	776.5	756.1	747.2	738.3	733.2	728.1	730.6	710.3	670.8	669.5
70°	692.5	716.6	702.6	695.0	683.5	674.6	644.1	594.4	560.1	549.9	561.3
72.5°	595.7	628.8	621.2	617.4	603.4	581.7	541.0	492.6	451.9	426.4	431.5
75°	449.3	476.1	479.9	481.2	465.9	445.5	403.5	362.8	327.1	300.4	306.8
77.5°	258.4	273.7	277.5	281.3	269.9	262.2	234.2	204.9	185.8	157.8	165.5
80°	143.8	150.2	150.2	151.5	145.1	136.2	117.1	100.6	91.6	78.9	80.2
82.5°	86.6	89.1	90.4	91.6	87.8	78.9	64.9	53.5	48.4	42.0	40.7
85°	42.0	44.6	44.6	45.8	39.5	34.4	26.7	20.4	17.8	12.7	14.0
87.5°	10.2	11.5	11.5	10.2	8.9	6.4	3.8	1.3	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)