

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: P635303

Luminaire Tested: GWS-SA3D-740-U-T2R-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P635303  
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-SA3D-740-U-T2R-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (48) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

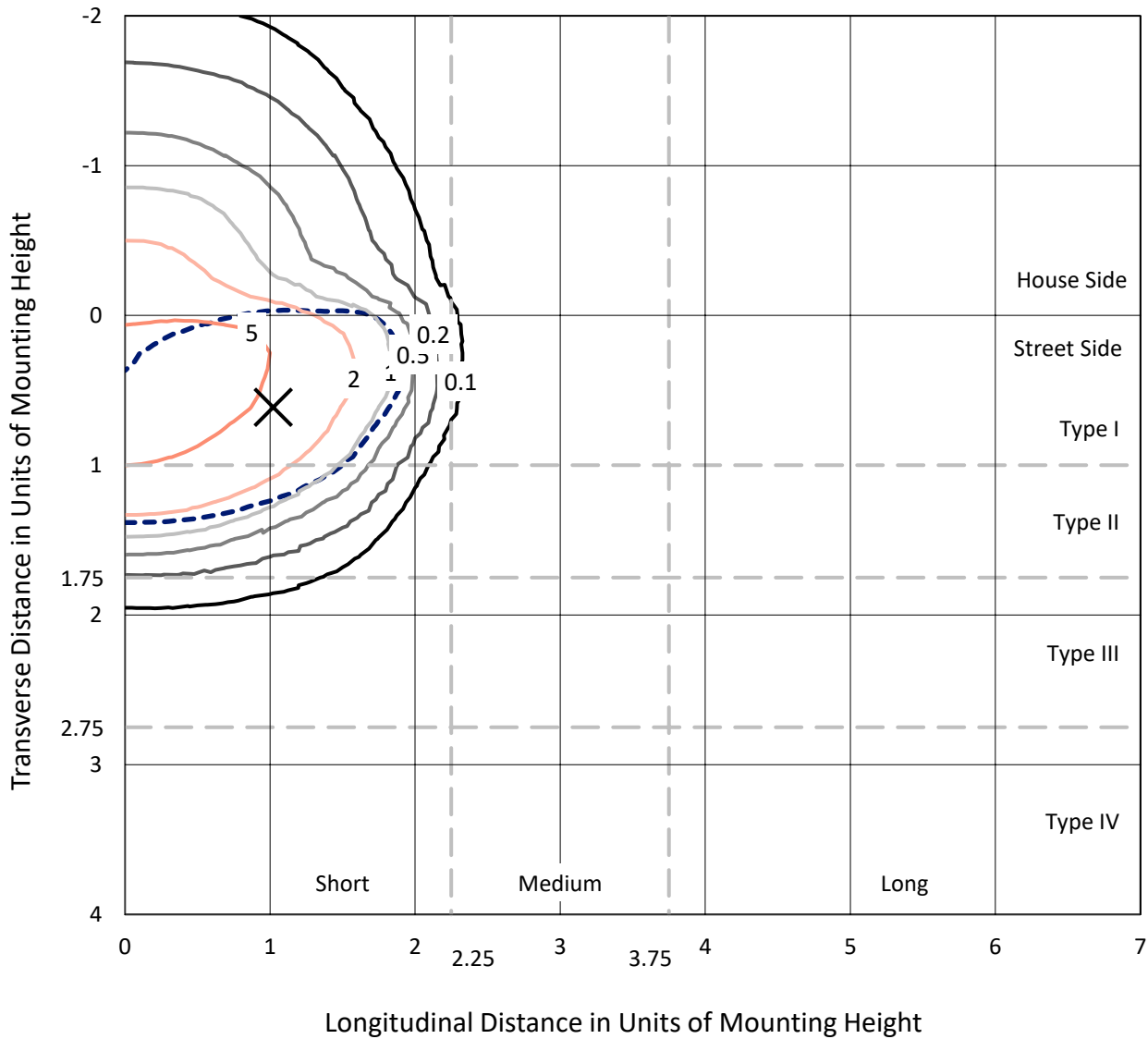
Lumens per Lamp: N/A  
Luminaire Lumens: 15488.2 lumens  
Efficiency: N/A  
Efficacy: 128.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 120.8  
Input Voltage (V): 120  
Input Current (Ain): 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

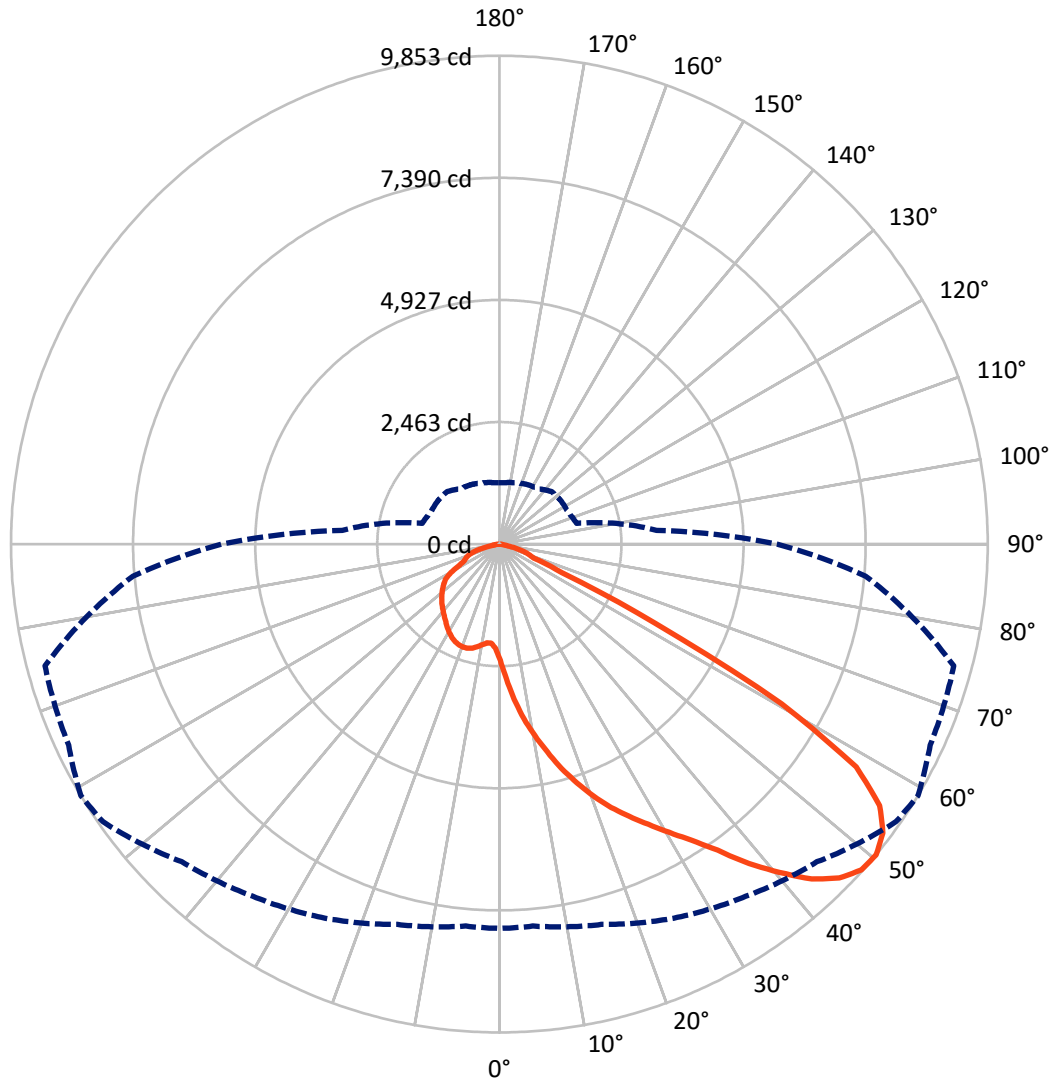
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 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	3562.6	0.0	3562.6
	% Fixture	23.0	0.0	23.0
<b>Street Side</b>	Lumens	11925.6	0.0	11925.6
	% Fixture	77.0	0.0	77.0
<b>Total</b>	Lumens	15488.2	0.0	15488.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	263.2	1.7
10°-20°	955.6	6.2
20°-30°	1809.6	11.7
30°-40°	3000.8	19.4
40°-50°	4099.3	26.5
50°-60°	3721.1	24.0
60°-70°	1239.2	8.0
70°-80°	361.4	2.3
80°-90°	38.0	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°	15488.2	100.0
0°-180°	15488.2	100.0

**Coefficient of Utilization**



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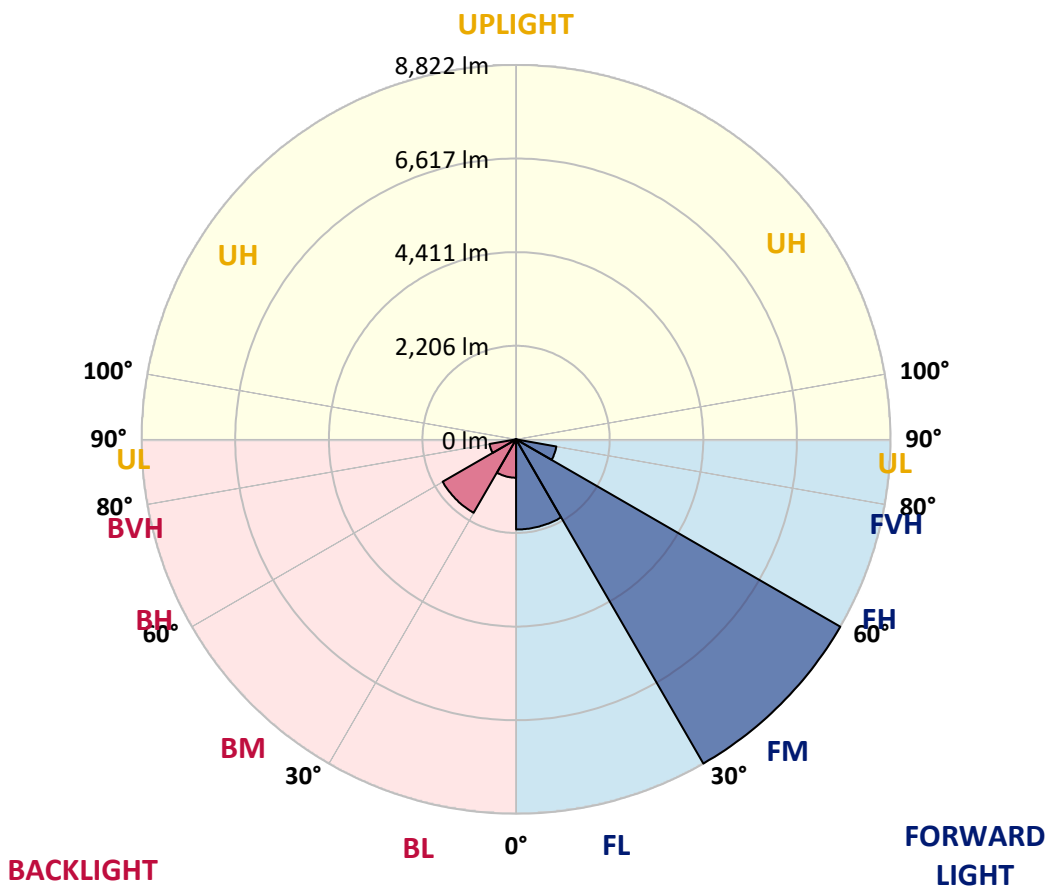
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2123.8	13.7			
FM (30°-60°)	8822.3	57.0			
FH (60°-80°)	964.7	6.2			G1/1800
FVH (80°-90°)	14.8	0.1			G1/100
BL (0°-30°)	904.6	5.8	B2/1000		
BM (30°-60°)	1999.0	12.9	B2/2500		
BH (60°-80°)	635.9	4.1	B2/1000		G2/1000
BVH (80°-90°)	23.1	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°	2346.6	2346.6	2346.6	2346.6	2346.6	2346.6	2346.6	2346.6	2346.6	2346.6	2346.6
2.5°	3040.5	3063.2	3027.8	3030.4	2942.0	2901.7	2788.1	2721.3	2677.1	2553.5	2441.2
5°	3653.6	3627.1	3599.3	3582.9	3506.0	3397.5	3256.2	3143.9	3040.5	2798.2	2564.8
7.5°	4029.5	4015.7	3996.7	3986.6	3911.0	3797.4	3656.1	3560.2	3410.1	3082.1	2715.0
10°	4348.7	4332.3	4321.0	4328.5	4266.7	4193.6	4039.6	3929.9	3760.8	3382.3	2896.6
12.5°	4596.0	4604.8	4608.6	4649.0	4622.5	4578.3	4419.4	4303.3	4115.3	3699.0	3109.8
15°	4791.5	4789.0	4833.2	4910.1	4953.0	4925.3	4797.9	4700.7	4471.1	4010.6	3339.4
17.5°	4837.0	4839.5	4908.9	5043.9	5183.9	5252.0	5180.1	5064.1	4837.0	4318.4	3577.9
20°	4873.6	4878.6	4950.5	5104.4	5308.8	5499.3	5510.7	5427.4	5231.8	4651.5	3820.1
22.5°	5104.4	5115.8	5134.7	5231.8	5416.0	5657.0	5789.5	5771.8	5607.8	5001.0	4081.3
25°	5711.3	5677.2	5585.1	5557.3	5628.0	5823.5	6049.4	6083.4	6002.7	5385.8	4362.6
27.5°	6460.6	6424.1	6287.8	6144.0	5991.3	6059.5	6300.4	6402.6	6403.9	5809.7	4645.2
30°	7140.6	7111.6	7000.6	6795.0	6531.3	6432.9	6610.8	6748.3	6830.3	6299.2	4966.9
32.5°	7722.2	7695.7	7545.6	7377.8	7120.5	6922.4	6986.7	7119.2	7311.0	6932.5	5366.8
35°	8211.7	8185.2	8041.4	7872.4	7633.9	7515.3	7492.6	7583.5	7832.0	7593.6	5826.1
37.5°	8609.1	8582.6	8432.5	8273.6	8091.9	8099.5	8133.5	8177.7	8320.2	8301.3	6316.8
40°	8866.5	8838.8	8731.5	8618.0	8503.2	8594.0	8763.1	8710.1	8785.8	8872.8	6768.5
42.5°	8981.3	8946.0	8884.2	8858.9	8823.6	8964.9	9290.4	9237.4	9146.6	9253.8	7104.1
45°	8866.5	8836.2	8835.0	8911.9	8993.9	9175.6	9655.0	9612.1	9382.5	9438.0	7304.7
47.5°	8514.5	8488.0	8559.9	8761.8	8963.7	9228.6	9817.8	9825.3	9550.3	9515.0	7434.6
50°	7753.8	7736.1	7944.3	8326.5	8674.7	9063.3	9766.0	9853.1	9590.7	9491.0	7418.2
52.5°	6207.1	6289.1	6742.0	7380.3	8056.6	8773.2	9574.3	9687.8	9396.4	9333.3	7329.9
55°	4249.1	4286.9	4739.8	5672.1	6744.5	8144.9	9134.0	9309.3	9166.8	9306.8	7422.0
57.5°	2200.2	2230.5	2587.5	3415.1	4574.6	6436.7	7911.5	8486.8	8703.8	9440.5	7708.4
60°	903.3	928.5	1076.1	1476.1	2307.5	3748.2	5693.6	6546.4	7056.1	8621.8	6845.4
62.5°	656.0	668.6	739.3	880.6	1208.6	1836.9	3222.1	3536.3	3894.6	5403.4	4346.2
65°	552.6	566.5	623.2	709.0	881.9	1126.6	1376.4	1384.0	1525.3	2201.5	1611.1
67.5°	463.0	475.6	526.1	599.3	712.8	799.9	739.3	740.6	738.0	798.6	772.1
70°	360.8	370.9	421.4	499.6	558.9	513.5	577.8	639.6	613.1	637.1	673.7
72.5°	263.7	275.0	319.2	378.5	363.3	365.9	468.1	531.1	516.0	542.5	576.6
75°	190.5	198.1	220.8	189.2	199.3	241.0	329.3	363.3	378.5	401.2	431.5
77.5°	61.8	61.8	69.4	87.1	108.5	133.7	167.8	181.7	204.4	229.6	251.1
80°	31.5	32.8	39.1	47.9	60.6	77.0	98.4	104.7	116.1	129.9	138.8
82.5°	15.1	16.4	18.9	24.0	31.5	40.4	54.2	60.6	68.1	77.0	83.3
85°	3.8	3.8	5.0	7.6	10.1	15.1	20.2	24.0	30.3	36.6	40.4
87.5°	0.0	0.0	0.0	0.0	0.0	1.3	3.8	5.0	6.3	7.6	10.1
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°	2346.6	2346.6	2346.6	2346.6	2346.6	2346.6	2346.6	2346.6	2346.6	2346.6	2346.6
2.5°	2390.7	2320.1	2229.2	2152.3	2081.6	2027.4	1980.7	1958.0	1936.6	1921.4	1926.5
5°	2456.3	2335.2	2166.2	2048.8	1976.9	1940.3	1915.1	1902.5	1900.0	1889.9	1886.1
7.5°	2552.2	2379.4	2153.5	2035.0	1987.0	1968.1	1954.2	1946.6	1950.4	1940.3	1936.6
10°	2670.8	2452.5	2185.1	2080.4	2038.7	2024.9	2009.7	1999.6	1994.6	1979.4	1976.9
12.5°	2818.4	2543.4	2241.9	2138.4	2096.8	2072.8	2052.6	2035.0	2023.6	2004.7	1999.6
15°	2977.4	2644.3	2308.7	2195.2	2146.0	2110.7	2077.9	2051.4	2031.2	2005.9	2002.2
17.5°	3150.2	2750.3	2364.2	2234.3	2171.2	2124.5	2076.6	2037.5	2009.7	1976.9	1973.1
20°	3330.6	2857.5	2405.9	2253.2	2172.5	2109.4	2045.0	1993.3	1958.0	1925.2	1922.7
22.5°	3517.3	2955.9	2431.1	2248.2	2152.3	2074.1	1997.1	1939.1	1897.4	1858.3	1855.8
25°	3705.3	3050.5	2437.4	2228.0	2111.9	2021.1	1944.1	1876.0	1829.3	1785.2	1780.1
27.5°	3895.8	3130.0	2422.3	2187.6	2057.7	1959.3	1882.3	1815.4	1767.5	1723.3	1715.8
30°	4098.9	3198.2	2389.5	2134.6	1994.6	1893.7	1818.0	1767.5	1722.1	1677.9	1670.4
32.5°	4315.9	3257.4	2342.8	2070.3	1921.4	1828.1	1772.5	1727.1	1681.7	1642.6	1635.0
35°	4574.6	3296.6	2273.4	1987.0	1853.3	1780.1	1742.3	1689.3	1633.8	1590.9	1587.1
37.5°	4842.0	3326.8	2190.1	1907.5	1794.0	1752.4	1720.8	1648.9	1579.5	1527.8	1521.5
40°	5100.6	3352.1	2086.7	1833.1	1739.7	1732.2	1689.3	1599.7	1479.9	1421.8	1416.8
42.5°	5341.6	3359.6	1978.2	1753.6	1690.5	1686.8	1638.8	1500.0	1407.9	1371.4	1366.3
45°	5506.9	3353.3	1865.9	1679.2	1641.3	1621.2	1570.7	1428.1	1371.4	1338.6	1332.2
47.5°	5629.2	3320.5	1739.7	1601.0	1585.8	1558.1	1449.6	1382.7	1329.7	1296.9	1290.6
50°	5607.8	3184.3	1612.3	1525.3	1519.0	1495.0	1361.3	1325.9	1279.3	1243.9	1238.9
52.5°	5496.8	2925.6	1482.4	1442.0	1454.6	1407.9	1298.2	1257.8	1217.4	1177.1	1168.2
55°	5524.5	2738.9	1384.0	1361.3	1384.0	1278.0	1227.5	1184.6	1146.8	1107.7	1100.1
57.5°	5645.6	2554.7	1279.3	1274.2	1298.2	1178.3	1136.7	1082.5	1028.2	996.7	996.7
60°	4741.1	1862.1	1095.1	1107.7	1161.9	1097.6	1061.0	1005.5	946.2	918.4	918.4
62.5°	2803.3	1168.2	908.4	894.5	928.5	968.9	989.1	943.7	873.0	836.4	837.7
65°	1235.1	850.3	801.1	789.8	779.7	807.4	862.9	866.7	792.3	749.4	750.7
67.5°	760.7	769.6	749.4	740.6	731.7	726.7	721.6	724.2	704.0	664.9	663.6
70°	686.3	710.3	696.4	688.8	677.5	668.6	638.4	589.2	555.1	545.0	556.4
72.5°	590.4	623.2	615.7	611.9	598.0	576.6	536.2	488.2	447.9	422.6	427.7
75°	445.3	471.8	475.6	476.9	461.7	441.6	399.9	359.6	324.2	297.7	304.0
77.5°	256.1	271.2	275.0	278.8	267.5	259.9	232.1	203.1	184.2	156.4	164.0
80°	142.6	148.9	148.9	150.1	143.8	135.0	116.1	99.7	90.8	78.2	79.5
82.5°	85.8	88.3	89.6	90.8	87.1	78.2	64.3	53.0	47.9	41.6	40.4
85°	41.6	44.2	44.2	45.4	39.1	34.1	26.5	20.2	17.7	12.6	13.9
87.5°	10.1	11.4	11.4	10.1	8.8	6.3	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)