

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: P632934

Luminaire Tested: GWS-SA2D-760-U-T2-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632934
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-21)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2D-760-U-T2-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSALLED GLARE SHIELD, WH
Light Source: (32) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9821.2 lumens
Efficiency: N/A
Efficacy: 119.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

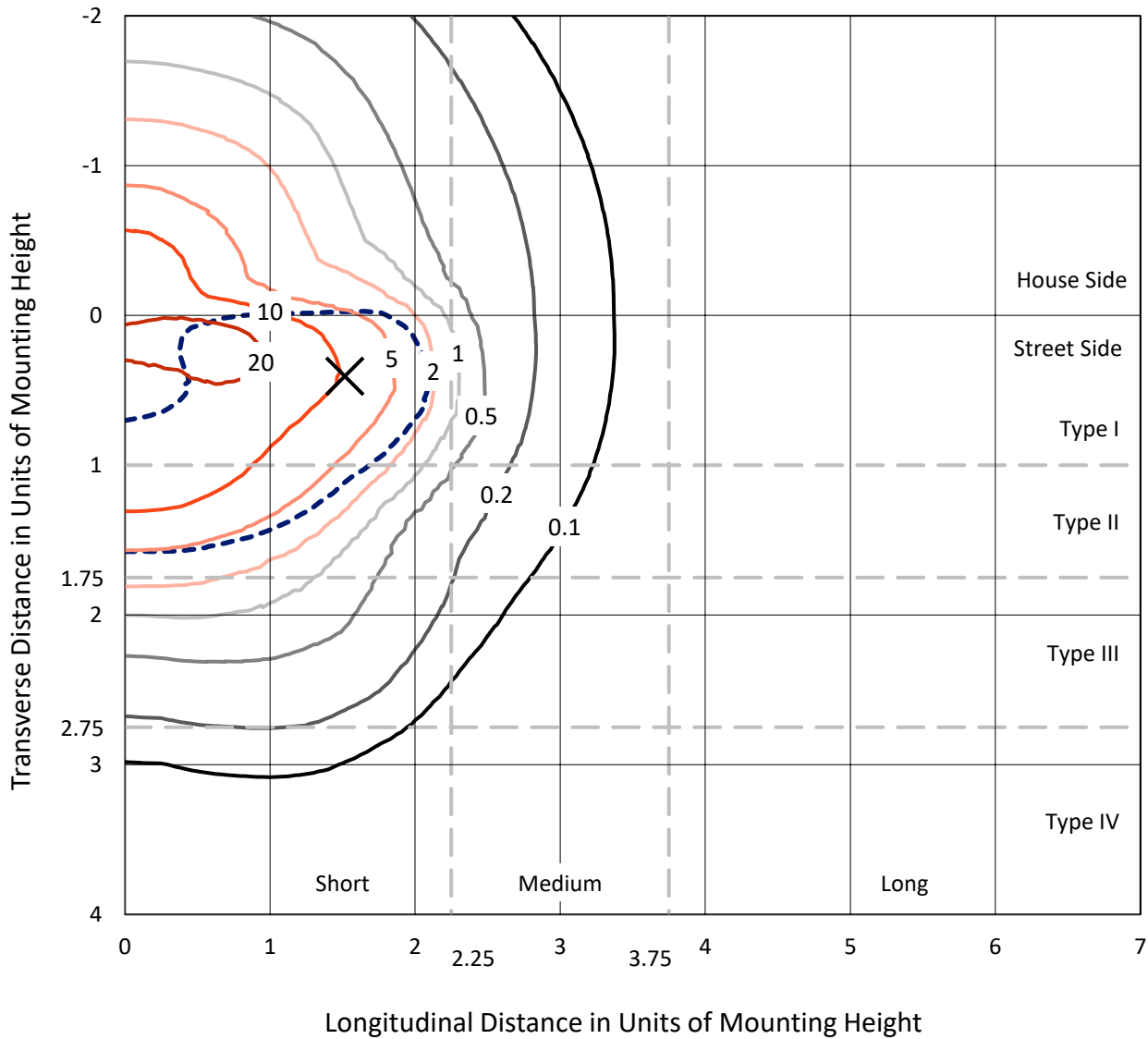
Input Watts (W): 82.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

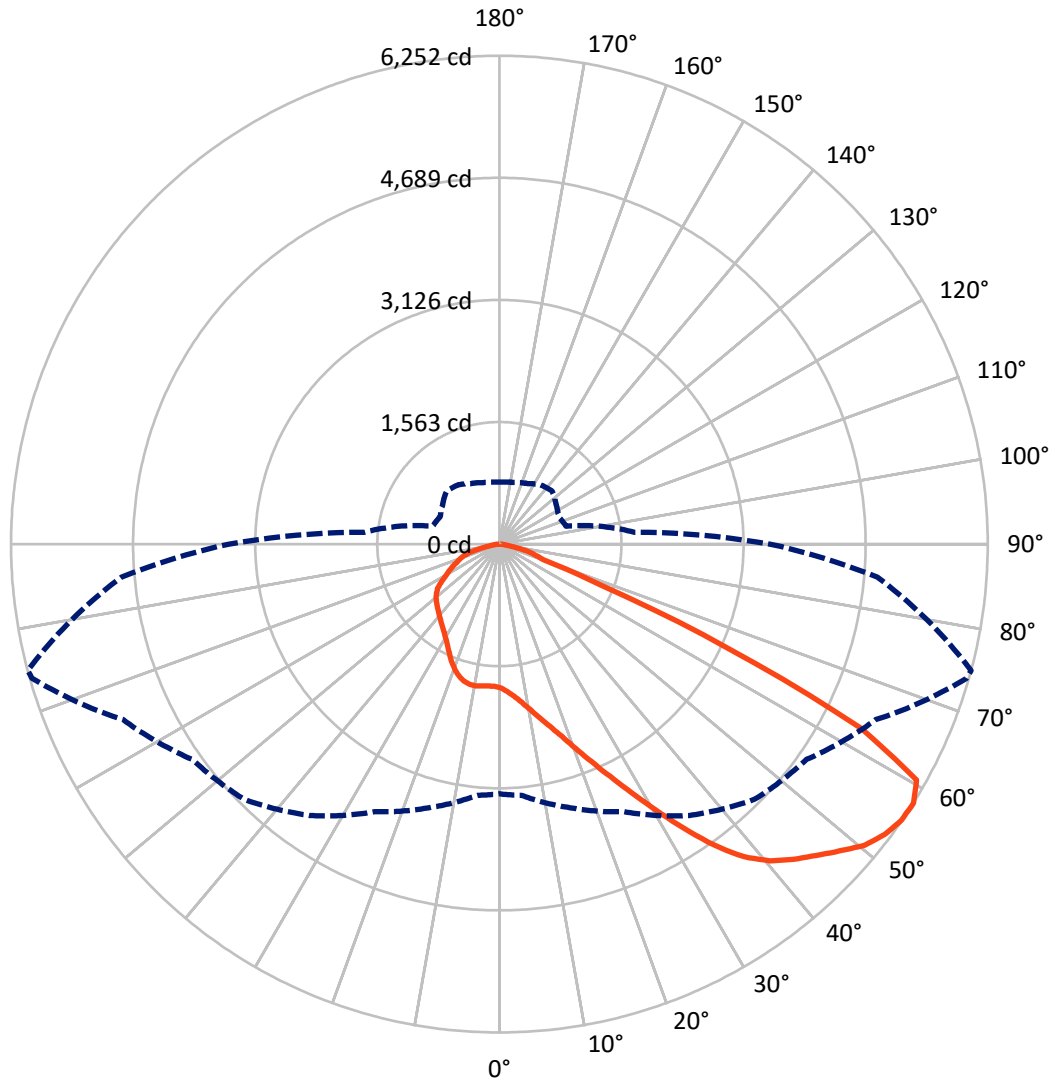
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 26 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2656.8	0.0	2656.8
	% Fixture	27.1	0.0	27.1
Street Side	Lumens	7164.4	0.0	7164.4
	% Fixture	72.9	0.0	72.9
Total	Lumens	9821.2	0.0	9821.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.1	1.9
10°-20°	586.0	6.0
20°-30°	1039.2	10.6
30°-40°	1590.9	16.2
40°-50°	2215.2	22.6
50°-60°	2538.2	25.8
60°-70°	1304.2	13.3
70°-80°	328.3	3.3
80°-90°	35.1	0.4
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°	9821.2	100.0
0°-180°	9821.2	100.0

Coefficient of Utilization



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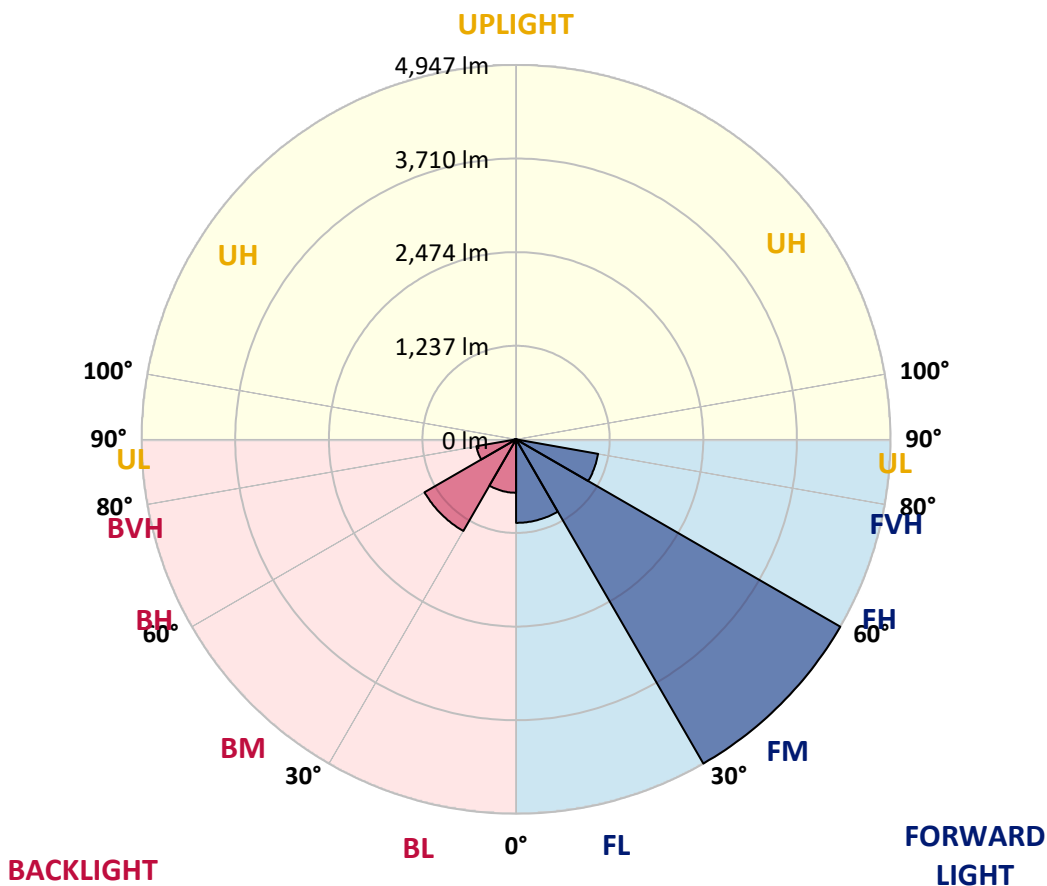
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1103.5	11.2			
FM (30°-60°)	4947.0	50.4			
FH (60°-80°)	1100.9	11.2			G1/1800
FVH (80°-90°)	13.0	0.1			G1/100
BL (0°-30°)	705.8	7.2	B2/1000		
BM (30°-60°)	1397.3	14.2	B2/2500		
BH (60°-80°)	531.6	5.4	B2/1000		G2/1000
BVH (80°-90°)	22.1	0.2			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°	65°	74°	75°	85°
0°	1839.3	1839.3	1839.3	1839.3	1839.3	1839.3	1839.3	1839.3	1839.3	1839.3	1839.3
2.5°	1976.1	1981.1	1976.1	1984.5	1967.6	1960.0	1941.5	1913.6	1891.6	1888.3	1863.8
5°	2129.8	2140.8	2134.0	2130.6	2107.8	2090.9	2063.1	2007.3	1961.7	1955.0	1906.8
7.5°	2228.6	2236.2	2236.2	2238.7	2230.3	2210.8	2181.3	2115.4	2051.2	2041.1	1968.5
10°	2261.5	2267.4	2278.4	2299.5	2316.4	2322.3	2302.9	2239.6	2161.0	2150.9	2049.6
12.5°	2269.1	2275.9	2292.8	2331.6	2378.1	2420.3	2423.7	2377.2	2289.4	2278.4	2143.3
15°	2283.5	2290.2	2313.0	2361.2	2429.6	2510.6	2560.5	2528.4	2431.3	2419.4	2249.7
17.5°	2281.8	2289.4	2323.2	2387.3	2479.4	2596.8	2693.0	2706.6	2606.1	2585.8	2370.5
20°	2277.6	2284.3	2320.6	2399.2	2513.2	2674.5	2848.4	2918.5	2810.4	2791.8	2511.5
22.5°	2311.3	2318.9	2346.8	2411.8	2530.9	2734.4	2992.0	3160.9	3052.8	3026.6	2673.6
25°	2387.3	2398.3	2415.2	2460.0	2563.0	2787.6	3138.9	3435.3	3324.7	3293.5	2850.1
27.5°	2504.7	2518.2	2541.9	2563.0	2634.8	2855.2	3285.0	3742.7	3632.1	3599.2	3036.7
30°	2648.3	2666.0	2696.4	2710.8	2759.8	2954.8	3443.8	4059.4	3995.2	3949.6	3247.0
32.5°	2846.7	2871.2	2899.9	2904.2	2933.7	3106.0	3600.9	4373.6	4372.7	4340.6	3486.0
35°	3105.1	3131.3	3137.2	3143.2	3157.5	3313.7	3790.9	4659.8	4770.5	4733.3	3746.1
37.5°	3387.2	3425.2	3434.5	3408.3	3428.6	3563.7	4004.5	4889.5	5116.7	5077.0	3997.8
40°	3688.7	3703.9	3729.2	3687.8	3713.2	3850.0	4213.9	5036.5	5375.1	5332.9	4196.2
42.5°	3904.9	3932.7	3970.7	3955.5	3969.9	4094.9	4360.9	5107.4	5559.2	5517.0	4338.9
45°	4139.6	4148.1	4172.6	4169.2	4177.6	4294.2	4466.4	5138.7	5723.9	5685.9	4460.5
47.5°	4344.0	4356.7	4372.7	4354.1	4335.6	4411.6	4552.6	5165.7	5913.9	5868.3	4588.1
50°	4540.8	4551.7	4571.2	4517.1	4447.9	4467.3	4594.8	5202.8	6092.1	6060.0	4688.5
52.5°	4577.1	4588.9	4680.1	4691.1	4602.4	4534.0	4669.1	5284.7	6196.8	6176.5	4724.9
55°	4120.2	4141.3	4322.9	4531.5	4750.2	4728.2	4788.2	5327.8	6238.2	6243.2	4789.9
57.5°	3198.0	3228.4	3493.6	3779.9	4240.1	4621.0	4803.4	5316.8	6223.8	6251.7	4856.6
60°	2097.7	2115.4	2429.6	2750.5	3227.6	3754.6	4299.2	5119.2	6096.3	6136.0	4839.7
62.5°	1266.7	1287.0	1539.5	1782.7	2063.9	2416.1	2916.0	4114.3	5109.9	5198.6	3876.2
65°	884.2	911.2	1132.4	1332.6	1429.7	1357.1	1477.0	2297.8	3183.7	3220.8	2368.8
67.5°	641.0	659.5	841.1	1079.2	1186.5	958.5	730.5	1017.6	1386.6	1400.1	977.1
70°	419.7	440.8	605.5	821.7	968.6	776.9	546.4	550.6	583.5	590.3	567.5
72.5°	230.5	243.2	374.1	545.5	572.6	464.5	426.5	457.7	480.5	480.5	486.4
75°	119.1	130.0	152.9	179.9	217.0	254.2	307.4	353.8	378.3	380.0	377.5
77.5°	60.8	65.0	81.9	88.7	97.1	113.2	146.9	188.3	210.3	218.7	217.0
80°	28.7	30.4	34.6	40.5	49.8	63.3	79.4	94.6	108.1	109.8	119.1
82.5°	15.2	16.9	18.6	22.0	27.0	33.8	46.4	55.7	64.2	65.9	73.5
85°	5.9	6.8	7.6	8.4	11.8	14.4	19.4	26.2	32.1	32.1	38.0
87.5°	0.0	0.0	0.0	0.0	0.8	1.7	3.4	4.2	5.9	5.9	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°	1839.3	1839.3	1839.3	1839.3	1839.3	1839.3	1839.3	1839.3	1839.3	1839.3	1839.3
2.5°	1857.9	1833.4	1822.4	1804.7	1790.3	1774.3	1761.6	1752.3	1746.4	1743.0	1739.6
5°	1888.3	1851.1	1821.5	1786.1	1761.6	1737.9	1718.5	1705.0	1698.2	1693.2	1689.8
7.5°	1935.5	1885.7	1830.0	1775.1	1732.0	1694.0	1669.5	1655.2	1645.9	1642.5	1640.0
10°	2000.6	1931.3	1839.3	1752.3	1688.1	1646.7	1629.8	1623.1	1623.9	1622.2	1621.4
12.5°	2074.0	1979.5	1836.7	1711.8	1640.8	1616.3	1617.2	1628.2	1640.8	1644.2	1645.0
15°	2153.4	2026.7	1812.3	1659.4	1603.7	1606.2	1628.2	1654.3	1678.0	1687.3	1689.0
17.5°	2239.6	2066.4	1767.5	1602.0	1573.3	1600.3	1640.8	1683.9	1718.5	1733.7	1737.9
20°	2335.8	2100.2	1704.2	1545.4	1544.6	1589.3	1648.4	1705.0	1748.9	1769.2	1772.6
22.5°	2438.0	2121.3	1626.5	1493.0	1515.0	1575.0	1642.5	1701.6	1748.1	1768.3	1772.6
25°	2541.0	2128.1	1541.2	1444.9	1484.6	1552.2	1613.8	1661.1	1705.0	1722.7	1726.1
27.5°	2637.3	2108.7	1460.1	1403.5	1456.7	1518.4	1559.8	1585.1	1615.5	1629.0	1631.5
30°	2735.3	2069.8	1391.7	1370.6	1425.5	1471.9	1490.5	1492.2	1504.0	1504.0	1505.7
32.5°	2834.1	2012.4	1331.7	1338.5	1386.6	1417.0	1419.6	1400.1	1385.8	1362.1	1361.3
35°	2948.1	1954.1	1282.8	1302.2	1341.0	1359.6	1352.0	1314.9	1280.2	1241.4	1239.7
37.5°	3053.6	1894.2	1241.4	1265.0	1289.5	1303.0	1285.3	1240.5	1211.8	1172.1	1166.2
40°	3140.6	1840.1	1201.7	1226.2	1238.0	1249.8	1221.1	1184.8	1189.0	1167.1	1166.2
42.5°	3191.3	1787.8	1164.5	1183.1	1190.7	1199.2	1173.8	1146.8	1169.6	1152.7	1153.6
45°	3228.4	1742.2	1130.8	1137.5	1156.1	1168.8	1145.1	1114.7	1119.8	1054.8	1039.6
47.5°	3270.7	1716.8	1098.7	1091.9	1124.8	1146.8	1110.5	1066.6	1036.2	972.0	966.1
50°	3315.4	1707.5	1064.9	1046.3	1086.0	1107.1	1064.9	1010.0	970.3	935.7	932.3
52.5°	3330.6	1706.7	1022.7	991.4	1031.1	1060.7	1025.2	969.5	922.2	888.4	886.7
55°	3390.6	1731.2	968.6	916.3	953.4	1014.2	988.0	907.8	869.8	854.6	852.9
57.5°	3460.7	1735.4	883.3	834.3	885.9	957.6	924.7	855.5	814.1	795.5	793.8
60°	3432.0	1631.5	792.1	771.9	828.4	904.4	874.0	814.1	765.9	748.2	746.5
62.5°	2615.4	1151.9	725.4	717.8	766.8	827.6	821.7	759.2	713.6	700.9	699.2
65°	1573.3	809.0	661.2	660.4	695.0	753.3	760.9	710.2	662.1	644.3	644.3
67.5°	777.8	619.0	588.6	584.4	606.3	647.7	679.8	638.4	597.9	581.0	578.5
70°	549.8	545.5	535.4	523.6	527.8	544.7	558.2	523.6	480.5	463.6	460.2
72.5°	475.4	476.3	469.5	460.2	456.9	445.0	433.2	407.9	381.7	364.0	365.7
75°	369.0	370.7	374.9	371.6	362.3	349.6	336.9	304.9	283.7	266.9	263.5
77.5°	215.3	223.8	237.3	233.9	235.6	217.9	212.8	181.6	162.1	150.3	147.8
80°	121.6	126.7	132.6	136.8	131.7	124.1	113.2	96.3	90.4	81.9	80.2
82.5°	73.5	78.5	81.1	84.4	82.8	72.6	64.2	53.2	48.1	43.9	43.1
85°	37.2	40.5	43.1	44.8	39.7	32.9	29.6	23.6	20.3	17.7	17.7
87.5°	9.3	10.1	11.8	10.1	9.3	4.2	3.4	0.8	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)