

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P200070

Luminaire Tested: **GWC-AF-02-LED-E1-5NQ-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200070
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24141)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GWC-AF-02-LED-E1-5NQ-800
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10590.6 lumens
Efficiency: N/A
Efficacy: 123.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B3 - U0 - G1

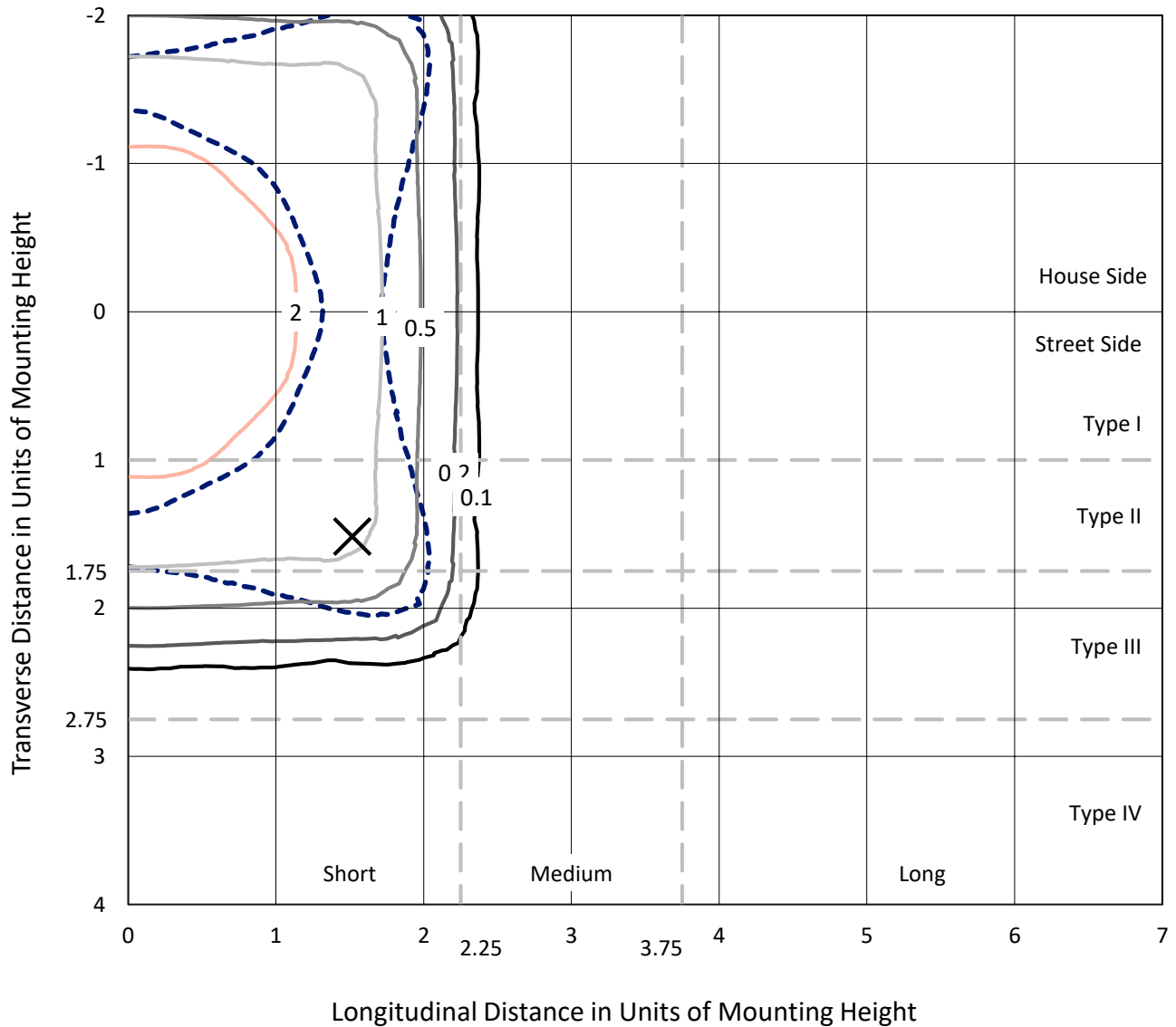
Input Watts (W): 86
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

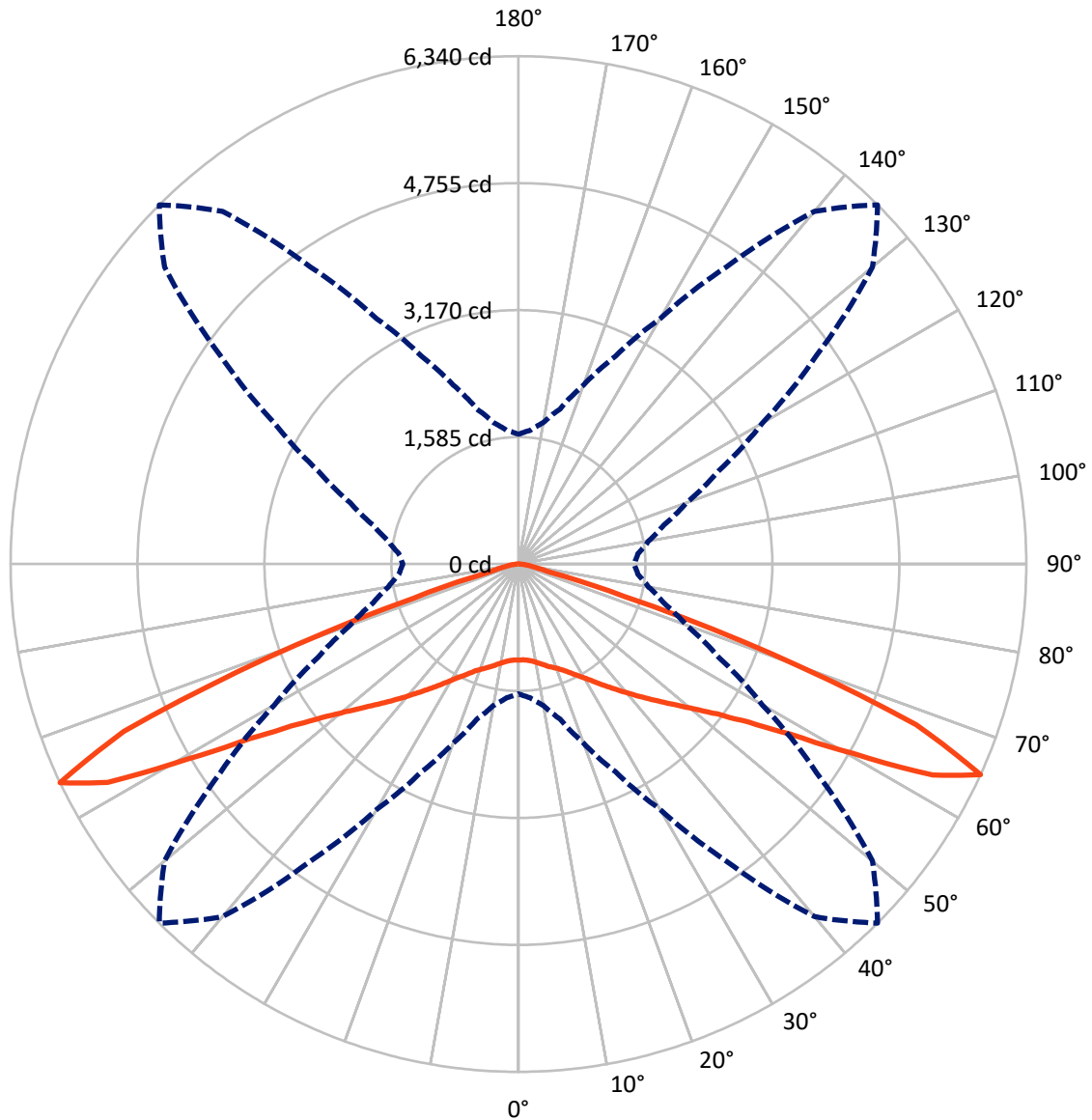
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5295.3	0.0	5295.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5295.3	0.0	5295.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	10590.6	0.0	10590.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.8	1.1
10°-20°	374.6	3.5
20°-30°	700.4	6.6
30°-40°	1184.6	11.2
40°-50°	1937.0	18.3
50°-60°	3080.1	29.1
60°-70°	2784.2	26.3
70°-80°	352.4	3.3
80°-90°	60.6	0.6
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°	10590.6	100.0
0°-180°	10590.6	100.0



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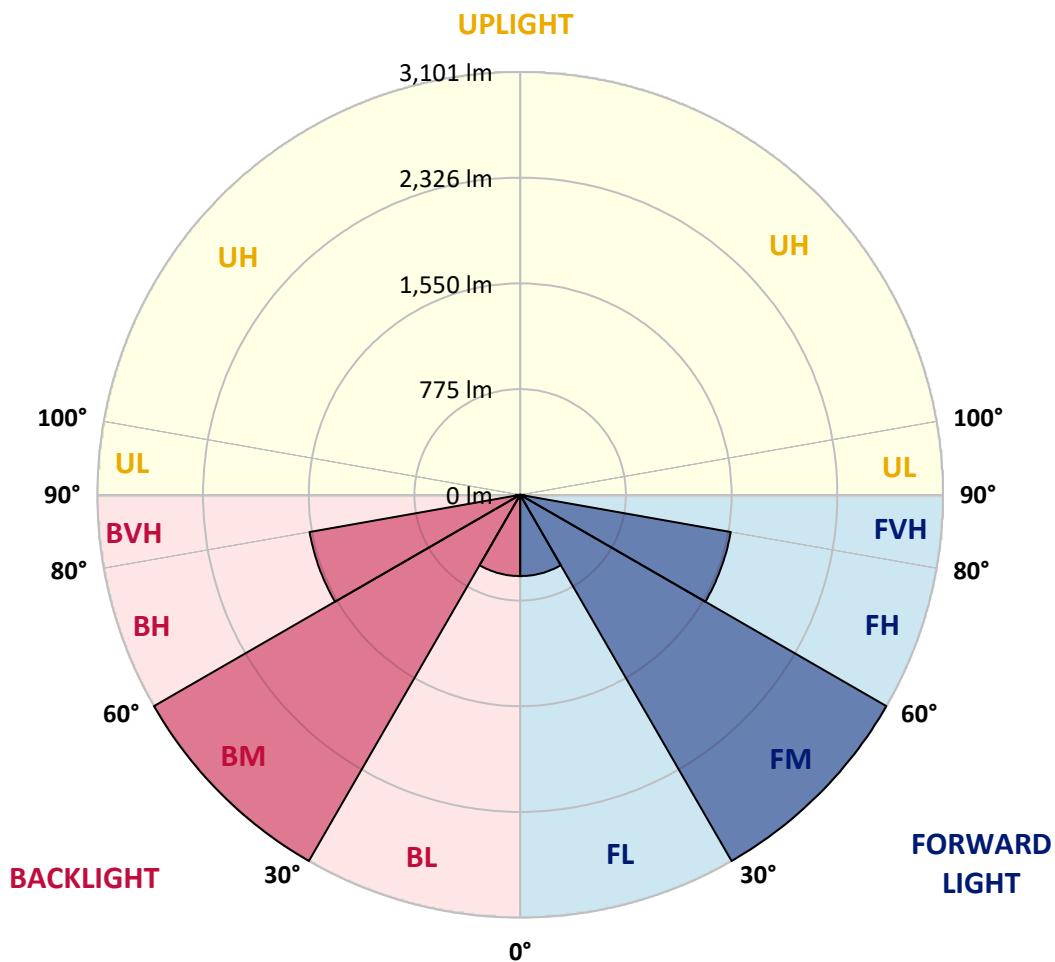
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	595.9	5.6			
FM	(30°-60°)	3100.8	29.3			
FH	(60°-80°)	1568.3	14.8			G1/1800
FVH	(80°-90°)	30.3	0.3			G1/100
BL	(0°-30°)	595.9	5.6	B2/1000		
BM	(30°-60°)	3100.8	29.3	B3/5000		
BH	(60°-80°)	1568.3	14.8	B3/2500		G1/1800
BVH	(80°-90°)	30.3	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1198.3	1198.3	1198.3	1198.3	1198.3	1198.3	1198.3	1198.3	1198.3	1198.3	1198.3
2.5°	1199.3	1200.3	1201.4	1200.3	1201.4	1199.8	1198.8	1200.3	1198.8	1197.4	1198.3
5°	1209.7	1210.3	1210.3	1208.7	1210.3	1209.2	1207.8	1209.7	1208.2	1206.8	1207.8
7.5°	1227.1	1229.1	1227.6	1226.1	1227.1	1226.1	1225.1	1225.6	1225.1	1223.7	1224.2
10°	1250.5	1251.9	1250.9	1250.5	1251.4	1250.9	1249.9	1249.4	1249.9	1248.4	1248.4
12.5°	1278.7	1278.2	1277.7	1278.2	1279.7	1279.7	1279.2	1279.7	1280.6	1281.1	1280.2
15°	1306.4	1307.4	1307.4	1307.4	1310.4	1313.0	1314.4	1315.4	1317.4	1317.9	1315.9
17.5°	1341.2	1341.2	1340.7	1341.2	1344.2	1348.1	1349.6	1351.6	1353.6	1355.1	1352.5
20°	1379.9	1380.9	1380.9	1381.8	1385.8	1390.3	1390.3	1391.3	1390.3	1391.3	1389.8
22.5°	1427.0	1430.0	1430.0	1430.5	1434.4	1439.9	1438.4	1439.9	1437.5	1439.4	1437.5
25°	1488.5	1493.0	1492.0	1492.0	1494.9	1498.4	1498.9	1501.9	1501.4	1503.8	1502.4
27.5°	1558.0	1564.9	1566.9	1566.3	1568.4	1571.9	1572.8	1576.3	1574.3	1576.3	1575.2
30°	1641.2	1644.2	1648.2	1649.7	1652.2	1655.6	1655.6	1656.2	1653.7	1656.7	1658.1
32.5°	1727.6	1733.0	1737.0	1745.9	1750.4	1752.8	1752.3	1753.3	1750.9	1754.9	1757.8
35°	1841.6	1845.6	1852.1	1859.0	1864.9	1864.4	1863.0	1863.5	1863.5	1867.0	1870.0
37.5°	1979.0	1980.0	1988.4	1998.3	2001.4	1998.3	1989.4	1987.5	1983.0	1987.5	1992.4
40°	2124.4	2127.8	2144.7	2151.2	2152.6	2147.2	2134.3	2126.8	2116.9	2122.4	2129.3
42.5°	2276.7	2283.5	2299.0	2310.3	2315.3	2311.9	2294.0	2282.6	2269.7	2272.7	2279.6
45°	2445.3	2453.8	2475.5	2486.5	2495.9	2490.4	2473.1	2455.7	2435.3	2436.9	2447.7
47.5°	2633.8	2642.2	2670.4	2688.8	2693.7	2692.8	2673.5	2649.6	2621.8	2620.9	2630.3
50°	2845.0	2853.5	2888.7	2916.9	2931.4	2929.8	2907.0	2873.4	2839.6	2840.1	2852.0
52.5°	3051.4	3061.8	3098.5	3147.1	3175.3	3195.7	3181.8	3150.1	3109.0	3109.9	3120.8
55°	3244.8	3262.2	3304.3	3370.3	3422.9	3480.0	3496.3	3495.3	3470.5	3477.4	3488.4
57.5°	3338.6	3364.4	3429.3	3533.5	3640.7	3756.7	3854.9	3928.3	3959.5	4006.7	3995.7
60°	3161.0	3202.1	3297.9	3451.1	3663.0	3905.0	4164.4	4417.8	4634.1	4797.3	4703.5
62.5°	2588.2	2641.7	2757.8	2954.2	3274.6	3662.0	4158.5	4757.6	5410.4	5804.2	5522.9
65°	1619.4	1675.0	1793.0	2003.3	2378.4	2860.0	3533.5	4526.5	5746.1	6339.8	5767.5
67.5°	631.4	661.6	725.7	860.1	1141.8	1570.3	2246.4	3373.3	4832.0	5352.3	4742.2
70°	316.4	319.5	331.3	356.1	416.6	541.1	823.4	1563.9	2771.2	3347.0	2671.4
72.5°	228.6	229.1	235.1	246.0	265.4	293.2	346.7	478.6	901.2	1377.4	844.7
75°	175.1	177.1	180.6	186.5	196.9	210.8	230.2	275.8	341.8	396.3	333.3
77.5°	134.9	138.9	141.4	146.8	153.2	162.6	168.2	185.5	215.7	227.2	223.7
80°	102.7	106.2	111.6	116.1	120.5	125.0	123.0	130.9	146.8	156.2	151.3
82.5°	65.5	69.5	85.3	89.3	91.2	94.2	90.7	91.2	98.2	104.1	98.2
85°	42.1	44.6	54.1	59.0	59.5	61.5	60.0	56.6	56.6	51.6	58.0
87.5°	19.3	19.8	24.3	28.7	29.8	26.8	26.3	25.3	20.4	19.3	20.9
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	1198.3	1198.3	1198.3	1198.3	1198.3	1198.3	1198.3	1198.3
2.5°	1197.9	1198.8	1199.3	1200.8	1201.4	1201.4	1201.8	1202.8
5°	1207.3	1208.7	1209.2	1211.3	1211.7	1211.3	1212.2	1212.7
7.5°	1224.2	1226.6	1227.6	1229.6	1228.1	1230.1	1230.6	1230.6
10°	1248.9	1251.4	1251.9	1253.9	1252.9	1253.9	1253.9	1252.9
12.5°	1281.7	1282.2	1280.6	1282.2	1280.2	1281.1	1279.7	1278.7
15°	1317.9	1316.3	1313.0	1313.0	1309.9	1310.4	1309.9	1309.5
17.5°	1353.1	1350.1	1347.6	1346.6	1344.2	1343.6	1342.2	1342.2
20°	1391.7	1390.3	1388.8	1386.8	1384.4	1381.8	1381.4	1382.3
22.5°	1438.4	1437.9	1437.9	1436.9	1433.5	1431.0	1429.5	1429.5
25°	1500.9	1496.5	1496.5	1496.0	1494.4	1493.0	1490.0	1491.5
27.5°	1571.4	1568.8	1570.8	1570.3	1568.8	1568.8	1566.9	1566.9
30°	1658.1	1657.2	1660.1	1657.6	1652.7	1652.2	1650.2	1647.7
32.5°	1758.4	1757.3	1761.8	1758.9	1750.9	1746.4	1742.5	1740.4
35°	1870.0	1870.4	1875.9	1873.8	1864.9	1862.0	1855.0	1854.0
37.5°	1991.9	1999.9	2009.3	2011.3	2003.9	2001.8	1994.4	1990.5
40°	2135.3	2145.7	2160.1	2163.5	2155.6	2154.1	2143.7	2138.3
42.5°	2288.0	2305.9	2323.7	2326.7	2318.8	2310.8	2300.9	2296.9
45°	2458.7	2480.0	2503.3	2509.3	2497.3	2487.9	2475.0	2475.0
47.5°	2650.2	2676.9	2703.1	2719.5	2708.7	2698.7	2683.4	2673.5
50°	2876.3	2913.0	2947.2	2964.1	2946.7	2927.9	2901.1	2892.2
52.5°	3160.0	3199.7	3229.5	3220.6	3193.8	3167.5	3138.2	3126.2
55°	3522.1	3535.5	3535.5	3501.8	3448.2	3404.1	3357.9	3342.5
57.5°	3975.0	3923.3	3843.9	3743.3	3616.8	3506.7	3432.3	3397.1
60°	4507.1	4259.2	3978.9	3703.6	3477.4	3290.9	3180.4	3129.7
62.5°	4861.8	4213.0	3651.5	3209.6	2884.2	2659.6	2506.7	2447.3
65°	4543.8	3513.6	2761.8	2233.0	1878.3	1649.7	1498.4	1442.9
67.5°	3328.2	2201.7	1470.6	1054.0	772.2	616.0	554.0	528.3
70°	1493.9	775.3	475.2	371.0	319.9	293.6	282.2	278.2
72.5°	450.4	325.9	274.8	248.0	227.7	214.7	205.3	204.4
75°	271.8	226.2	200.9	185.1	172.2	161.7	156.7	155.3
77.5°	190.0	166.1	154.3	142.8	132.9	125.0	120.5	117.0
80°	133.4	122.0	116.5	110.1	103.6	96.3	89.8	86.8
82.5°	89.3	86.8	86.8	82.9	77.3	70.5	57.5	54.5
85°	57.5	57.1	58.0	56.6	52.6	45.1	37.2	35.2
87.5°	26.8	27.3	30.3	29.8	28.7	23.8	18.8	17.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)