

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: P200202

Luminaire Tested: **GWC-AF-02-LED-E1-T3R-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200202
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P40129)
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-T3R-1200
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14252.8 lumens
Efficiency: N/A
Efficacy: 110.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B2 - U0 - G3

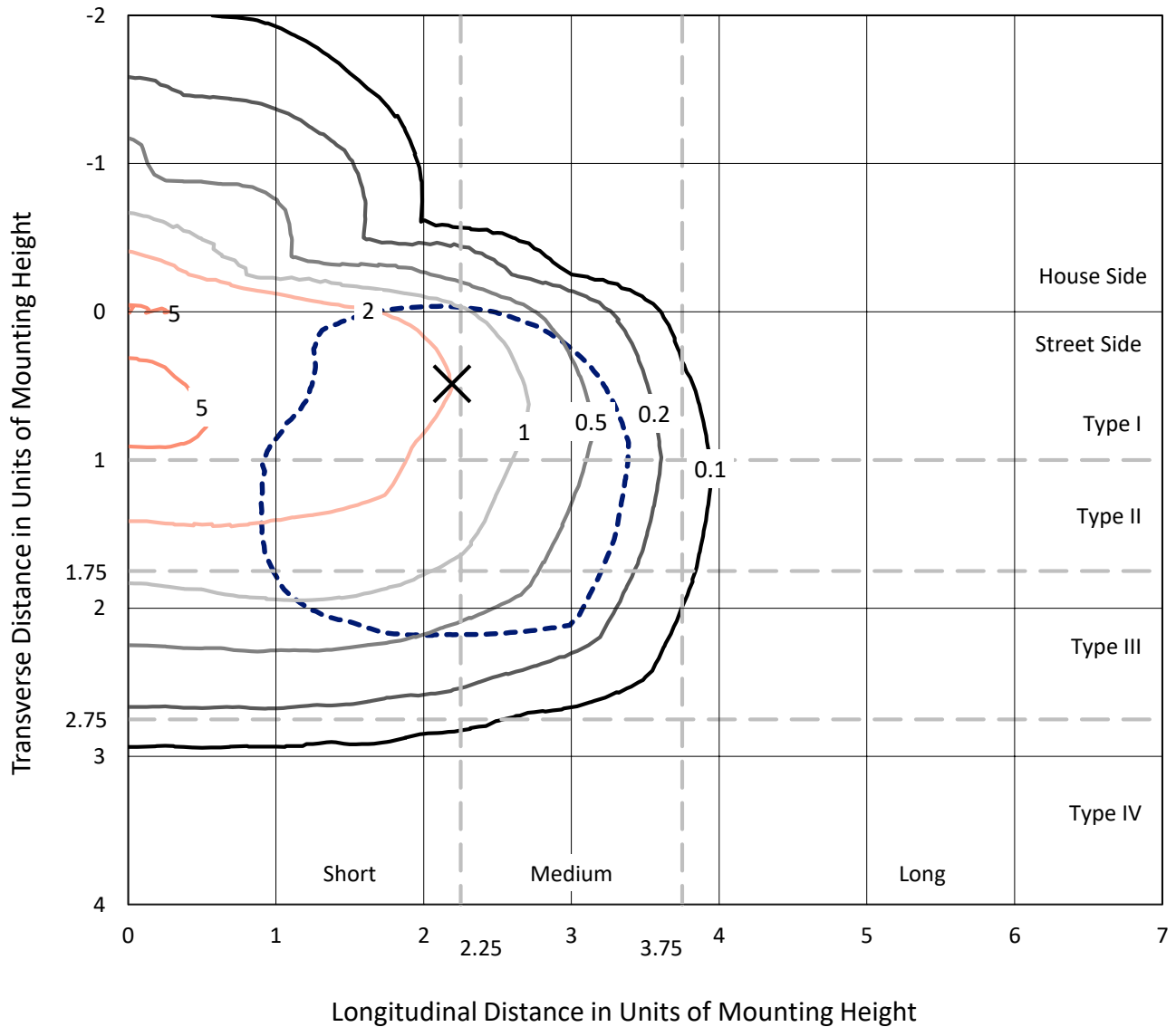
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

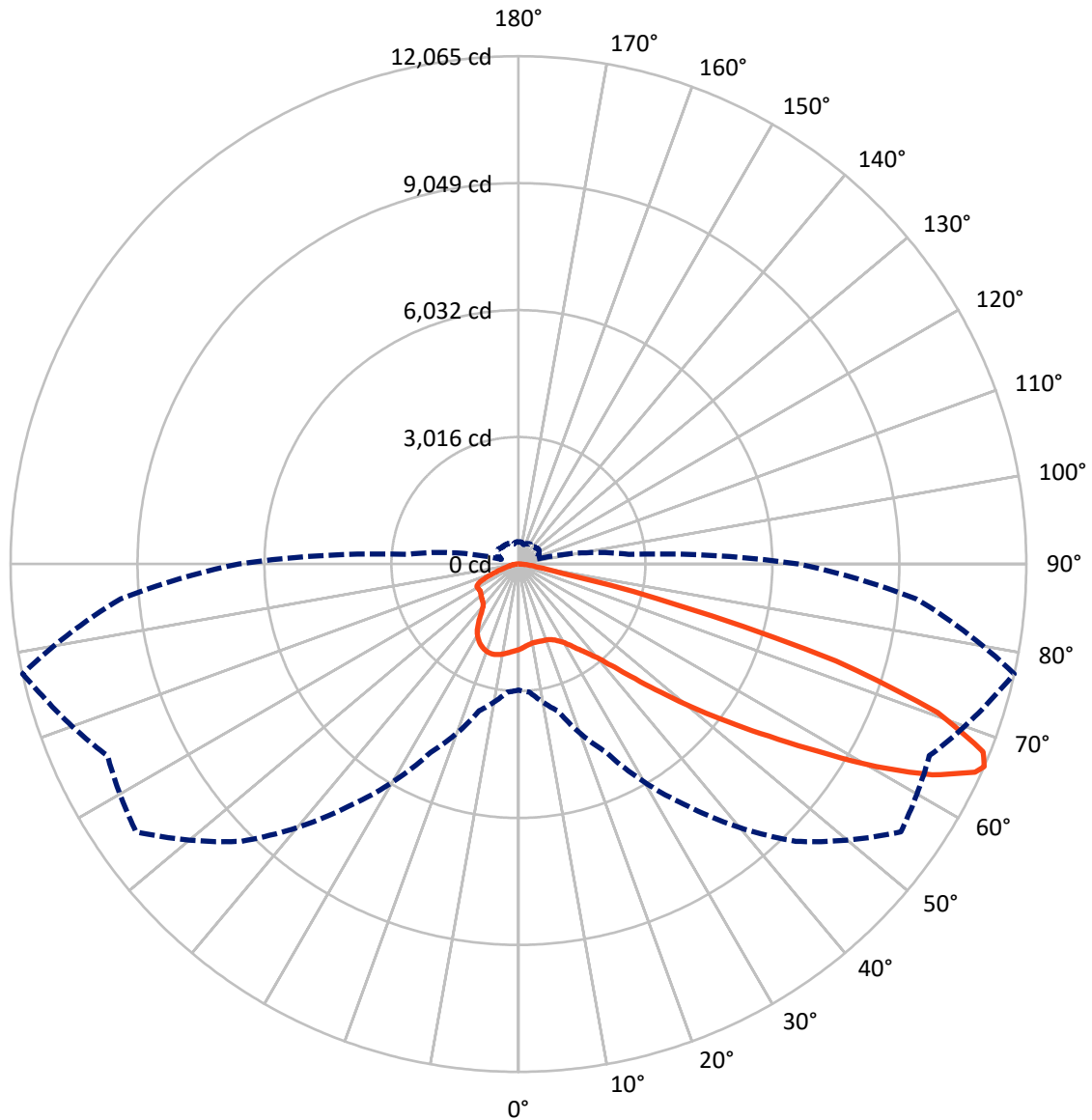
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.3 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 77.5-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2435.0	0.0	2435.0
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	11817.8	0.0	11817.8
	% Fixture	82.9	0.0	82.9
Total	Lumens	14252.8	0.0	14252.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.5	1.3
10°-20°	511.9	3.6
20°-30°	873.7	6.1
30°-40°	1398.6	9.8
40°-50°	2160.7	15.2
50°-60°	3064.7	21.5
60°-70°	4099.7	28.8
70°-80°	1780.4	12.5
80°-90°	181.5	1.3
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°	14252.8	100.0
0°-180°	14252.8	100.0



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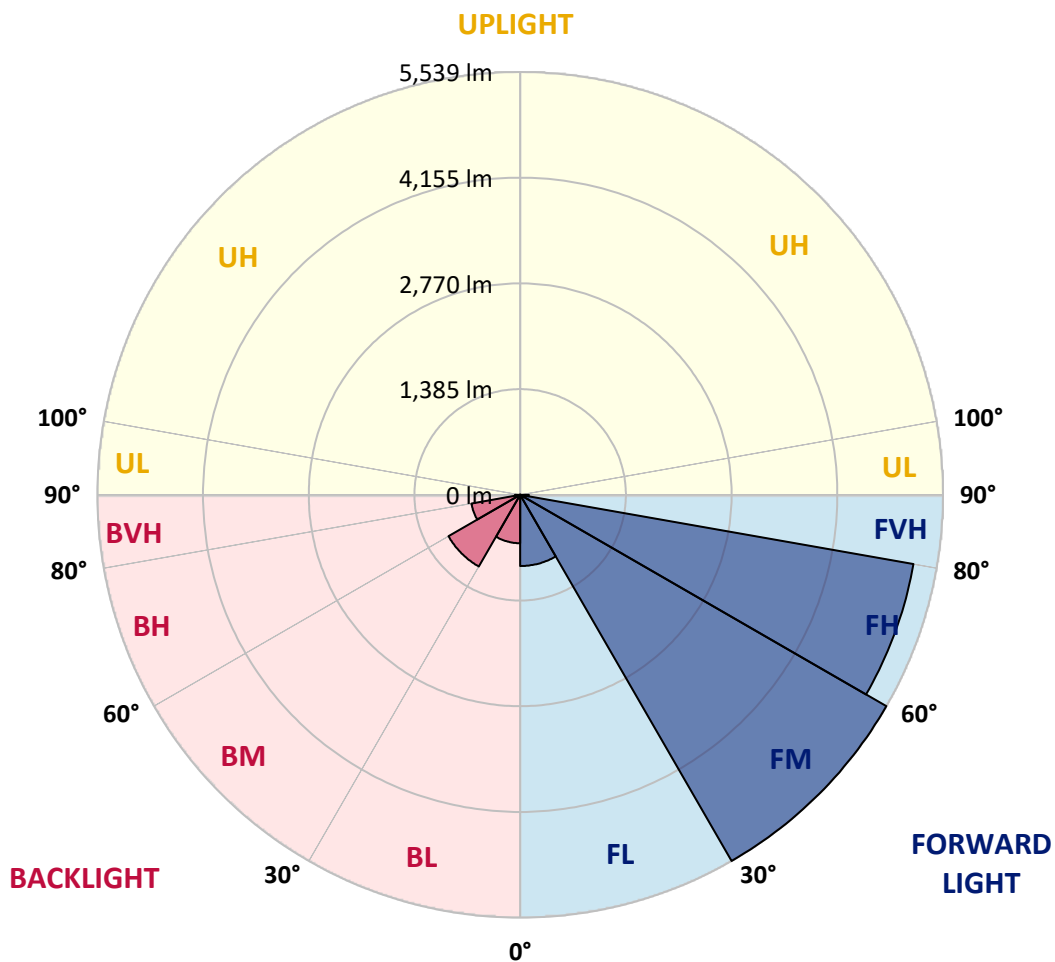
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	932.9	6.5			
FM	(30°-60°)	5539.4	38.9			
FH	(60°-80°)	5231.6	36.7			G3/7500
FVH	(80°-90°)	113.9	0.8			G2/225
BL	(0°-30°)	634.2	4.4	B2/1000		
BM	(30°-60°)	1084.7	7.6	B2/2500		
BH	(60°-80°)	648.5	4.5	B2/1000		G2/1000
BVH	(80°-90°)	67.7	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	2031.1	2031.1	2031.1	2031.1	2031.1	2031.1	2031.1	2031.1	2031.1	2031.1	2031.1
2.5°	1796.7	1808.9	1818.9	1828.4	1847.2	1878.2	1913.9	1942.9	1984.6	1992.7	2014.9
5°	1631.7	1631.7	1639.8	1654.0	1679.6	1726.0	1774.5	1839.2	1930.1	1951.6	2010.9
7.5°	1551.6	1552.2	1557.0	1569.1	1591.3	1633.8	1686.9	1763.1	1886.3	1922.0	2023.0
10°	1581.3	1574.5	1564.4	1558.4	1561.7	1586.6	1637.1	1721.9	1859.3	1905.1	2050.0
12.5°	1746.9	1734.1	1699.1	1652.6	1608.2	1590.0	1619.6	1702.5	1848.0	1901.2	2085.6
15°	2017.7	2012.2	1946.9	1850.6	1742.9	1652.6	1632.4	1695.0	1849.3	1905.9	2128.0
17.5°	2357.0	2349.6	2263.4	2123.3	1947.6	1771.9	1677.5	1701.1	1854.0	1913.9	2169.2
20°	2699.8	2677.0	2584.0	2416.9	2191.4	1934.1	1752.3	1716.6	1860.0	1922.6	2212.2
22.5°	2955.7	2936.9	2853.3	2691.1	2431.1	2122.0	1852.7	1743.5	1879.6	1948.2	2265.4
25°	3180.7	3182.0	3099.1	2942.2	2673.6	2321.4	1982.0	1815.6	1929.4	2000.8	2338.2
27.5°	3458.8	3442.6	3365.2	3209.6	2913.3	2522.7	2138.2	1914.6	2003.4	2075.6	2433.8
30°	3791.5	3780.0	3690.4	3514.0	3179.3	2738.8	2316.7	2029.7	2099.1	2173.9	2559.0
32.5°	4182.7	4177.3	4084.4	3857.4	3486.4	2993.5	2526.1	2182.0	2241.9	2319.3	2738.8
35°	4642.0	4642.7	4532.9	4260.2	3822.5	3289.7	2763.8	2378.0	2415.6	2496.4	2953.1
37.5°	4924.9	4959.2	4918.1	4640.0	4202.9	3621.0	3072.2	2637.9	2613.6	2695.1	3182.7
40°	4985.5	5027.2	5157.2	5015.7	4628.5	3986.0	3345.7	2887.7	2857.4	2957.0	3478.3
42.5°	4900.7	4958.5	5233.3	5332.9	5080.4	4435.9	3713.3	3258.8	3220.4	3354.4	3846.0
45°	4850.1	4893.2	5211.0	5498.0	5472.4	4944.3	4181.4	3724.8	3710.7	3886.4	4270.3
47.5°	4762.6	4801.6	5107.4	5536.3	5702.6	5410.4	4743.7	4294.6	4322.2	4552.4	4749.0
50°	4809.7	4825.9	4991.5	5438.7	5769.3	5751.8	5372.0	4954.5	5048.8	5336.3	5291.2
52.5°	4803.0	4844.7	4978.1	5278.4	5778.1	5962.6	5990.9	5690.6	5889.2	6219.2	5892.6
55°	3883.0	3959.8	4819.8	5238.0	5809.0	6169.3	6541.8	6466.4	6836.8	7221.3	6571.4
57.5°	3708.0	3756.5	4233.3	5322.8	5973.4	6564.0	7154.6	7320.2	7939.8	8386.4	7398.4
60°	3673.6	3733.6	4227.1	5426.5	6306.7	7207.1	8063.1	8354.0	9281.9	9770.9	8357.4
62.5°	3566.5	3631.2	4187.4	5413.0	6780.2	8096.8	9226.1	9453.1	10554.8	11030.3	9159.4
65°	3227.1	3287.8	3863.5	5195.6	7099.4	9046.3	10602.6	10460.5	11559.5	11917.2	9559.5
66°	2994.8	3054.0	3608.3	4939.6	7025.3	9315.7	11090.2	10772.3	11784.5	12064.7	9481.3
67.5°	2569.9	2616.3	3112.6	4366.6	6631.4	9391.1	11500.3	11006.6	11808.0	11907.0	9034.8
70°	1623.6	1637.1	2023.0	3014.3	5019.8	8144.5	10876.0	10424.8	10834.3	10566.3	7574.1
72.5°	704.4	699.7	971.1	1533.4	2841.9	5464.9	8797.8	8601.8	8498.8	7887.3	5302.0
75°	391.9	397.3	504.4	711.9	1154.9	2684.3	5755.2	5507.4	4650.1	3967.9	2404.1
77.5°	314.5	321.9	418.2	505.0	518.5	936.1	2693.1	2191.4	1319.3	1058.7	668.1
80°	248.5	262.0	365.0	393.3	349.5	385.9	870.1	695.7	521.9	478.8	346.2
82.5°	196.6	206.0	313.1	297.7	244.5	259.9	416.9	406.1	339.4	309.1	200.0
85°	141.4	159.0	257.3	224.2	160.3	175.1	276.8	265.4	194.7	159.0	88.2
87.5°	57.9	75.4	181.8	148.8	89.6	81.5	138.1	130.0	92.3	67.3	43.8
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°	2031.1	2031.1	2031.1	2031.1	2031.1	2031.1	2031.1	2031.1	2031.1	2031.1	2031.1
2.5°	2029.0	2045.2	2066.2	2078.9	2085.6	2090.4	2097.8	2097.0	2099.1	2099.8	2102.5
5°	2042.5	2069.4	2099.8	2107.9	2107.9	2100.4	2093.1	2080.9	2076.2	2074.9	2076.2
7.5°	2077.5	2107.2	2133.5	2124.1	2103.8	2074.2	2035.8	2002.1	1983.9	1977.9	1976.5
10°	2122.0	2157.7	2168.5	2132.8	2073.5	2002.1	1926.0	1870.8	1839.2	1830.4	1827.7
12.5°	2175.9	2209.6	2194.7	2119.3	2009.6	1894.4	1789.3	1701.1	1635.1	1614.2	1612.9
15°	2235.1	2261.4	2209.6	2077.5	1913.9	1744.2	1557.0	1404.8	1322.7	1296.4	1294.3
17.5°	2290.4	2303.8	2200.8	2004.8	1773.2	1498.4	1249.9	1132.7	1104.5	1111.1	1112.6
20°	2337.5	2337.5	2171.2	1900.4	1551.6	1174.4	1017.5	1015.6	1035.7	1056.0	1060.0
22.5°	2389.3	2358.4	2119.3	1752.9	1237.8	961.0	938.1	957.0	979.9	1002.1	1005.5
25°	2453.3	2375.2	2047.2	1529.4	973.1	872.8	881.6	897.0	908.5	922.6	924.6
27.5°	2524.7	2396.8	1952.3	1221.6	844.4	817.5	824.3	829.7	828.3	833.7	835.0
30°	2610.3	2421.6	1822.3	954.9	791.3	770.4	758.3	753.6	753.6	762.3	765.7
32.5°	2724.7	2458.8	1635.8	818.3	765.7	736.7	697.7	680.2	686.9	716.6	723.2
35°	2850.7	2498.5	1383.2	771.7	760.4	721.3	660.6	628.3	629.0	656.6	665.3
37.5°	2988.0	2549.0	1106.4	763.0	772.4	721.9	641.1	596.7	578.5	578.5	581.9
40°	3163.8	2600.9	895.7	769.1	798.0	730.0	631.1	571.7	520.6	521.9	524.6
42.5°	3392.8	2645.2	782.6	781.8	829.0	740.8	630.3	538.8	494.3	524.6	552.2
45°	3647.3	2667.4	732.7	793.3	854.0	747.5	619.6	533.4	497.7	587.9	640.5
47.5°	3940.3	2654.7	705.1	797.4	860.0	747.5	607.4	546.2	521.2	680.9	742.2
50°	4261.5	2617.6	678.1	789.3	857.9	746.1	618.9	558.9	530.0	697.0	739.4
52.5°	4639.3	2586.6	649.9	771.7	843.8	738.8	632.4	553.5	502.4	633.7	663.4
55°	5070.4	2595.4	618.2	746.9	821.6	724.7	627.7	532.0	473.4	558.3	576.4
57.5°	5621.2	2699.8	580.5	715.1	791.3	701.0	610.8	521.9	464.6	506.5	517.2
60°	6236.0	2881.7	533.4	683.5	753.6	663.4	598.0	526.6	468.7	502.4	507.8
62.5°	6687.2	2987.3	493.0	637.1	702.4	621.5	581.9	532.7	479.5	516.5	515.2
65°	6809.8	2813.6	442.4	569.1	633.0	577.8	561.6	539.4	484.2	527.9	521.9
66°	6638.0	2626.4	420.2	537.4	598.0	556.3	551.6	538.8	482.2	529.3	519.2
67.5°	6221.2	2242.5	381.9	490.9	542.2	524.0	535.4	532.7	476.8	527.9	513.8
70°	5073.6	1530.0	326.6	408.8	451.2	461.4	504.4	511.2	459.3	504.4	473.4
72.5°	3544.9	932.0	288.9	317.2	365.0	393.3	462.0	481.5	435.7	440.4	410.8
75°	1713.2	495.0	262.0	245.8	283.6	328.7	410.8	441.1	398.6	368.4	357.6
77.5°	534.1	302.4	222.2	197.9	222.2	265.4	343.4	386.6	354.9	308.4	304.4
80°	286.8	222.2	171.0	159.0	175.7	208.1	270.1	322.5	305.0	276.8	247.1
82.5°	189.2	144.1	126.6	123.3	134.0	159.0	200.7	267.4	267.4	237.0	172.4
85°	97.7	88.2	86.8	86.8	93.6	105.8	136.7	206.0	219.5	125.2	103.7
87.5°	48.5	50.5	47.2	49.2	52.5	51.9	65.4	103.7	123.9	76.1	63.3
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)