

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: P193572

Luminaire Tested: **GLEON-AF-04-LED-E1-SL2-8030-600-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193572  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24287)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-04-LED-E1-SL2-8030-600-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10693 lumens  
Efficiency: N/A  
Efficacy: 82.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short - Semi-Cutoff  
BUG Rating: B1 - U0 - G2

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

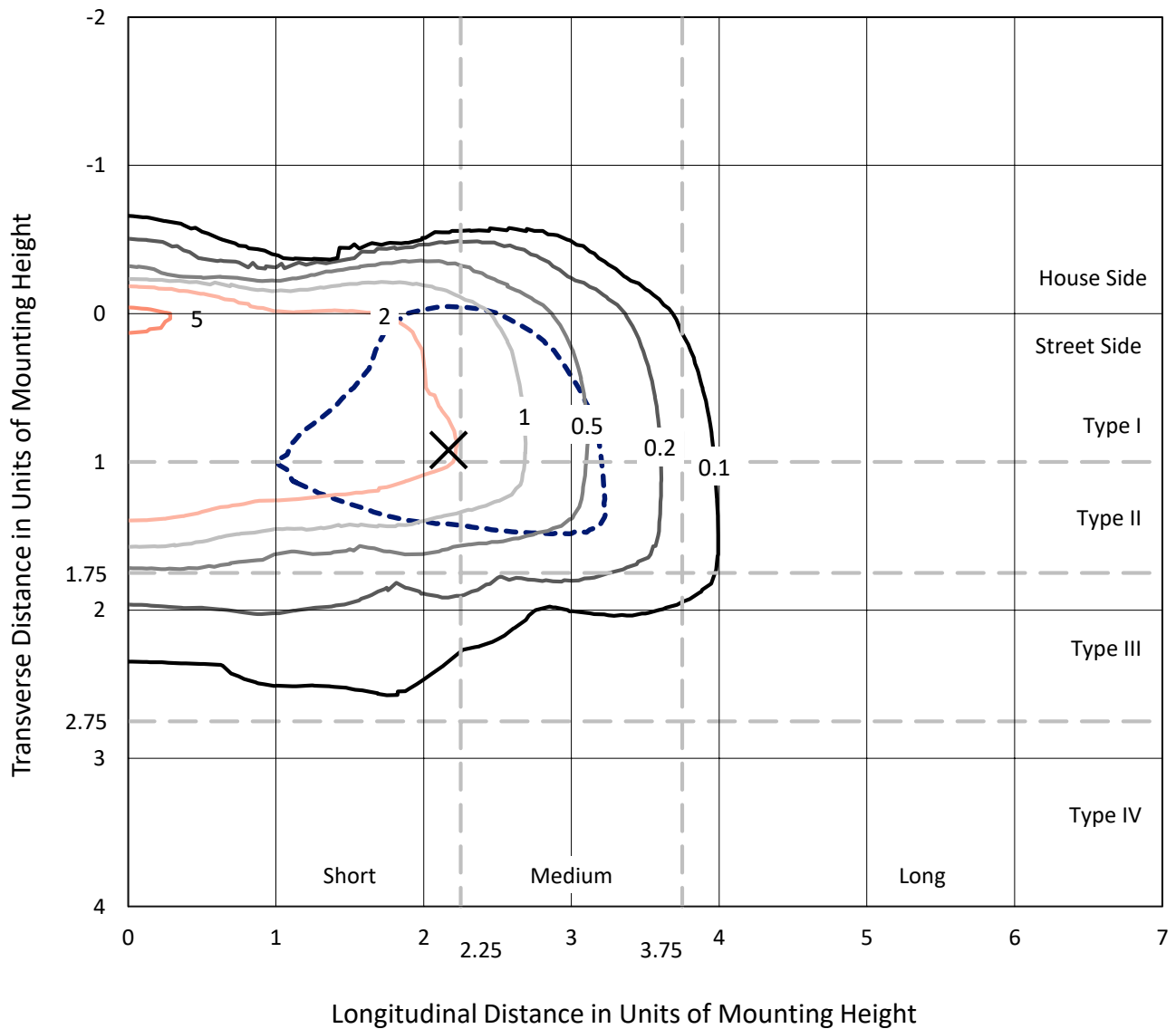


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### Iso-Footcandle Lines of Horizontal Illumination

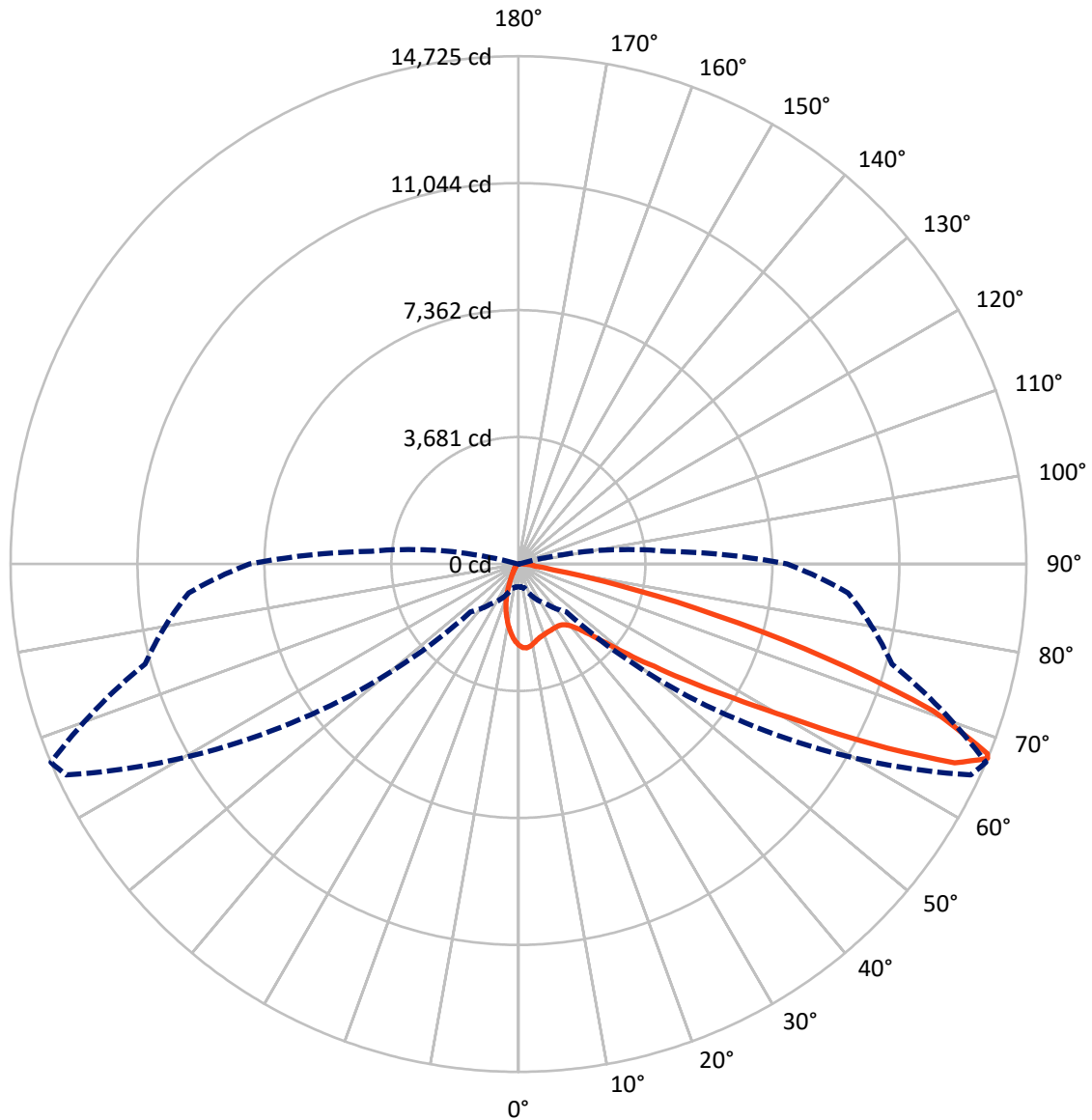
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.9 fc  
 Type II - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral    - - - Horizontal Cone Through 67-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1110.2	0.0	1110.2
	% Fixture	10.4	0.0	10.4
<b>Street Side</b>	Lumens	9582.7	0.0	9582.7
	% Fixture	89.6	0.0	89.6
<b>Total</b>	Lumens	10693.0	0.0	10693.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	191.9	1.8
10°-20°	408.4	3.8
20°-30°	593.8	5.6
30°-40°	926.3	8.7
40°-50°	1640.9	15.3
50°-60°	2596.6	24.3
60°-70°	2974.0	27.8
70°-80°	1233.6	11.5
80°-90°	127.4	1.2
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°	10693.0	100.0
0°-180°	10693.0	100.0

**Coefficient of Utilization**



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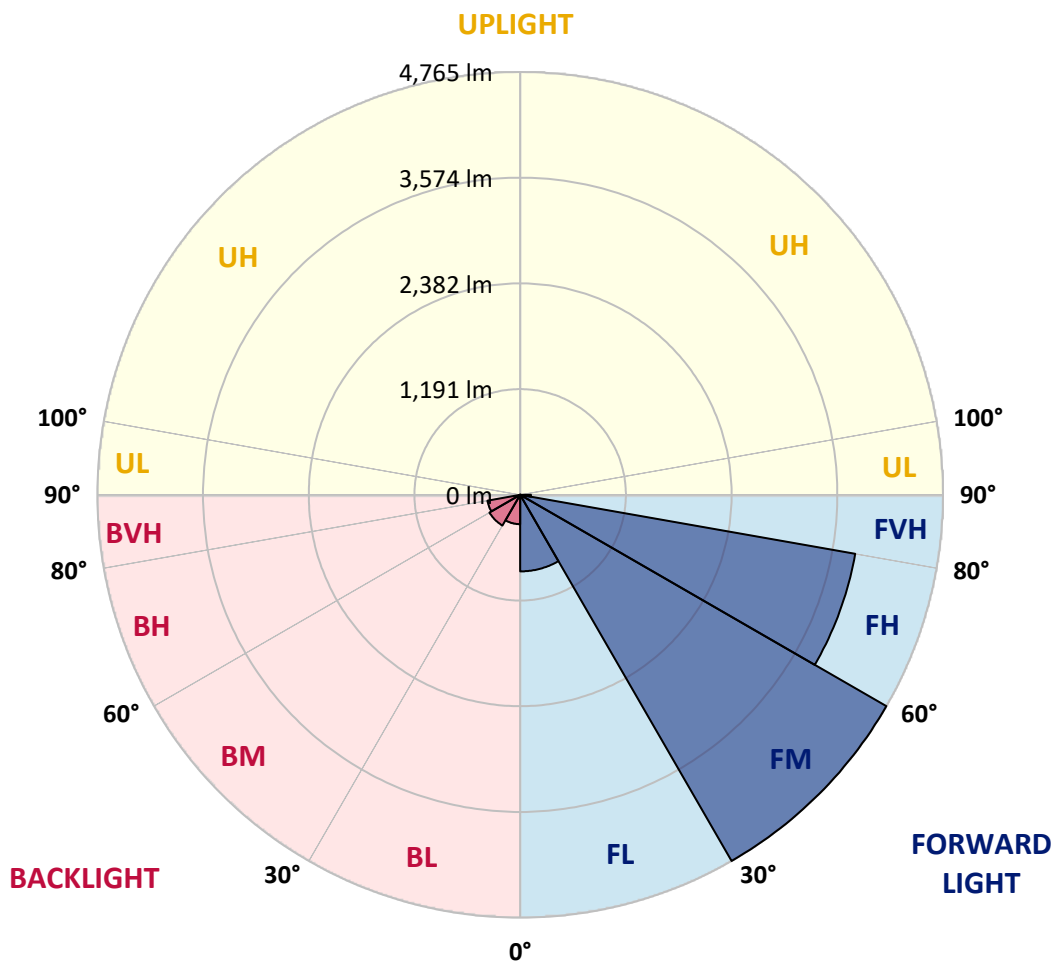
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	862.8	8.1			
FM (30°-60°)	4764.8	44.6			
FH (60°-80°)	3833.5	35.9			G2/5000
FVH (80°-90°)	121.7	1.1			G2/225
BL (0°-30°)	331.3	3.1	B1/500		
BM (30°-60°)	399.0	3.7	B1/1000		
BH (60°-80°)	374.2	3.5	B1/500		G1/500
BVH (80°-90°)	5.7	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2358.2	2358.2	2358.2	2358.2	2358.2	2358.2	2358.2	2358.2	2358.2	2358.2	2358.2
2.5°	2438.0	2443.0	2442.4	2446.1	2454.9	2455.5	2446.8	2429.9	2426.2	2404.4	2366.3
5°	2248.4	2262.8	2271.5	2307.1	2347.0	2395.0	2431.2	2444.3	2442.4	2426.8	2369.4
7.5°	2032.0	2046.4	2056.3	2098.1	2151.1	2233.5	2327.6	2405.0	2411.8	2428.7	2366.9
10°	1887.9	1890.4	1904.1	1944.1	1999.6	2083.8	2196.0	2331.4	2352.0	2413.7	2360.7
12.5°	1769.4	1771.3	1789.4	1832.4	1891.7	1976.5	2094.4	2250.9	2282.7	2395.0	2359.4
15°	1685.2	1692.1	1708.3	1753.2	1816.2	1900.4	2021.4	2191.7	2229.7	2388.1	2370.7
17.5°	1657.2	1664.6	1669.6	1702.1	1759.5	1841.8	1965.9	2153.0	2196.0	2391.9	2392.5
20°	1686.5	1692.1	1680.9	1689.0	1724.5	1798.1	1919.1	2119.9	2171.1	2396.2	2420.6
22.5°	1795.6	1798.1	1767.6	1732.0	1725.8	1766.3	1882.3	2093.8	2148.6	2408.1	2453.6
25°	1982.7	1978.4	1928.5	1851.8	1779.4	1760.7	1860.5	2077.5	2137.4	2420.6	2487.9
27.5°	2208.5	2214.8	2146.1	2034.5	1896.7	1798.1	1857.4	2070.7	2132.4	2429.3	2517.9
30°	2482.9	2491.7	2413.1	2272.8	2075.0	1890.4	1886.1	2069.4	2129.3	2423.7	2520.4
32.5°	2763.0	2773.6	2711.8	2567.1	2313.3	2045.1	1950.9	2083.2	2135.5	2404.4	2506.0
35°	3056.1	3071.1	3029.9	2905.8	2636.4	2268.4	2065.1	2124.9	2164.9	2402.5	2491.7
37.5°	3460.9	3474.6	3397.3	3265.7	3027.4	2567.8	2248.4	2203.5	2234.1	2432.4	2495.4
40°	4065.3	4063.4	3863.8	3662.4	3457.2	2948.2	2506.0	2345.7	2361.3	2522.9	2541.6
42.5°	4723.9	4720.8	4425.8	4119.5	3934.3	3416.6	2844.7	2591.5	2580.9	2689.4	2661.3
45°	5231.6	5231.0	4990.2	4645.3	4508.7	3954.2	3282.5	2933.3	2917.0	2960.1	2882.1
47.5°	5448.0	5451.7	5330.7	5088.1	5145.5	4681.5	3834.5	3428.5	3404.1	3386.7	3268.2
50°	5279.6	5287.1	5297.1	5249.7	5612.7	5658.8	4574.8	4126.4	4114.5	4036.6	3851.3
52.5°	4729.5	4767.5	4884.8	5035.1	5774.8	6596.9	5735.5	4993.3	4929.7	4846.8	4642.8
55°	3802.7	3844.5	4067.1	4432.0	5533.4	7213.1	7362.1	6111.0	6005.0	5757.4	5463.0
57.5°	2516.6	2581.5	2904.6	3368.6	4832.4	7312.2	8985.0	7662.1	7292.9	6614.9	6283.1
60°	1386.5	1448.8	1799.4	2219.7	3490.2	6822.0	10076.5	9681.7	9029.3	7573.6	7279.2
62.5°	853.8	887.5	1146.4	1537.4	2093.1	5384.4	10302.2	12219.5	11464.2	8807.9	8482.3
65°	679.8	694.2	820.8	1256.8	1500.6	3202.7	9573.1	14154.2	13902.2	10302.2	9559.4
67°	659.9	665.5	725.4	1079.0	1414.5	1963.4	8020.1	14469.2	14724.9	11206.6	9593.1
67.5°	664.2	670.5	727.2	1029.7	1412.1	1804.4	7485.0	14345.0	14668.1	11278.3	9444.0
70°	640.5	659.9	832.6	1029.1	1342.8	1499.4	4482.5	12429.0	12765.2	10479.4	8013.3
72.5°	227.0	228.3	359.9	832.6	1460.1	1515.6	2250.9	9111.6	9360.5	8016.4	5777.3
75°	134.7	114.8	119.7	237.0	1395.2	1471.9	1298.5	5822.2	5915.1	4593.5	2925.8
77.5°	92.9	81.1	83.6	104.8	531.4	1451.3	1031.6	3036.2	2937.0	1611.0	623.1
80°	53.0	46.8	49.9	91.7	193.3	1354.0	973.0	1231.2	1049.7	273.2	172.1
82.5°	28.1	23.7	28.7	75.5	134.7	843.9	974.8	595.0	471.5	92.3	117.3
85°	10.0	8.1	13.7	51.8	89.8	258.8	903.7	500.2	392.9	44.9	89.2
87.5°	1.9	1.9	5.6	21.2	36.2	79.2	534.5	296.9	199.0	26.8	61.1
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°	2358.2	2358.2	2358.2	2358.2	2358.2	2358.2	2358.2	2358.2	2358.2	2358.2	2358.2
2.5°	2350.7	2323.9	2287.7	2243.4	2191.1	2144.9	2110.6	2075.0	2067.6	2055.1	2053.2
5°	2335.1	2289.0	2199.2	2096.2	1986.5	1887.3	1806.9	1735.1	1703.3	1675.9	1672.8
7.5°	2312.0	2242.8	2090.0	1924.1	1752.6	1596.7	1464.4	1370.9	1284.8	1243.7	1237.4
10°	2285.2	2186.1	1967.1	1737.0	1500.0	1279.8	1083.4	918.7	818.9	759.7	752.2
12.5°	2260.3	2130.6	1841.8	1543.0	1228.1	933.7	681.1	523.9	419.1	376.7	371.7
15°	2248.4	2085.6	1724.5	1344.7	943.7	594.4	372.3	288.1	253.8	243.9	243.2
17.5°	2247.2	2047.6	1609.8	1139.5	661.1	345.5	242.6	221.4	214.6	212.1	212.1
20°	2246.6	2011.4	1495.0	926.8	419.7	230.1	202.1	197.1	192.1	189.0	189.0
22.5°	2253.4	1979.0	1375.3	709.8	264.4	186.5	177.8	172.8	166.5	162.2	161.5
25°	2260.3	1954.0	1253.0	505.2	191.5	162.2	153.4	146.6	137.8	132.2	131.6
27.5°	2261.5	1922.9	1122.0	338.0	160.3	141.6	130.4	119.7	109.8	104.2	103.5
30°	2242.8	1870.5	976.7	228.3	141.6	122.9	107.9	96.7	87.3	83.0	83.0
32.5°	2206.0	1805.6	817.0	172.1	126.0	105.4	89.2	78.6	72.3	70.5	69.9
35°	2173.0	1735.8	653.0	145.9	112.9	89.2	73.0	66.1	62.4	61.7	61.1
37.5°	2153.6	1679.6	499.0	132.2	100.4	74.8	61.7	56.8	54.9	53.6	54.3
40°	2168.6	1632.8	368.6	121.0	87.9	62.4	52.4	49.9	48.0	47.4	47.4
42.5°	2234.1	1624.7	273.8	111.0	76.1	51.8	45.5	43.7	42.4	41.8	42.4
45°	2406.2	1674.6	212.7	101.7	64.2	43.7	38.7	38.0	37.4	37.4	37.4
47.5°	2665.1	1777.5	177.1	91.1	53.6	37.4	33.7	33.1	32.4	33.1	33.1
50°	3103.5	1965.9	158.4	80.5	44.3	31.8	28.7	28.7	28.7	28.7	29.3
52.5°	3770.3	2336.4	145.9	69.9	36.2	26.8	24.3	24.3	24.9	24.9	25.6
55°	4513.1	2827.8	134.7	59.3	30.6	22.5	20.0	20.6	21.2	21.8	21.8
57.5°	5318.9	3372.3	125.4	48.6	26.2	18.1	16.8	17.5	18.1	19.3	19.3
60°	6291.2	3961.7	111.6	38.0	21.8	14.3	13.1	14.3	16.2	17.5	18.1
62.5°	7359.0	4531.8	94.2	29.9	18.1	11.2	10.6	13.1	15.6	16.8	17.5
65°	8088.7	4710.8	72.3	24.3	13.7	8.1	8.7	11.9	15.0	16.8	16.8
67°	7793.1	4271.1	59.3	20.6	11.2	6.2	8.1	11.9	15.0	16.2	16.8
67.5°	7587.9	4098.9	56.8	20.0	10.6	6.2	8.1	11.9	15.0	16.8	16.8
70°	6174.0	3079.2	47.4	15.0	8.7	5.6	6.9	11.2	14.3	16.2	16.2
72.5°	4289.8	1898.5	42.4	10.6	7.5	5.0	6.2	10.6	13.7	15.6	16.2
75°	2039.5	687.3	36.2	8.1	6.9	4.4	5.6	10.6	13.7	15.6	15.6
77.5°	416.0	159.7	29.3	6.9	5.6	4.4	5.0	10.0	13.1	15.0	15.0
80°	136.6	61.7	21.8	6.2	5.6	4.4	5.0	9.4	13.1	14.3	15.0
82.5°	98.5	31.2	14.3	6.2	5.6	4.4	4.4	9.4	12.5	14.3	14.3
85°	75.5	21.8	9.4	6.2	5.6	4.4	4.4	8.7	11.9	13.7	13.7
87.5°	49.9	8.7	7.5	6.2	5.6	4.4	4.4	8.7	11.2	13.1	13.7
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)