

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: P526772

Luminaire Tested: **GALN-SA1D-730-U-AFL-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P526772  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA1D-730-U-AFL-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND AUTOMOTIVE  
FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6433 lumens  
Efficiency: N/A  
Efficacy: 99.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

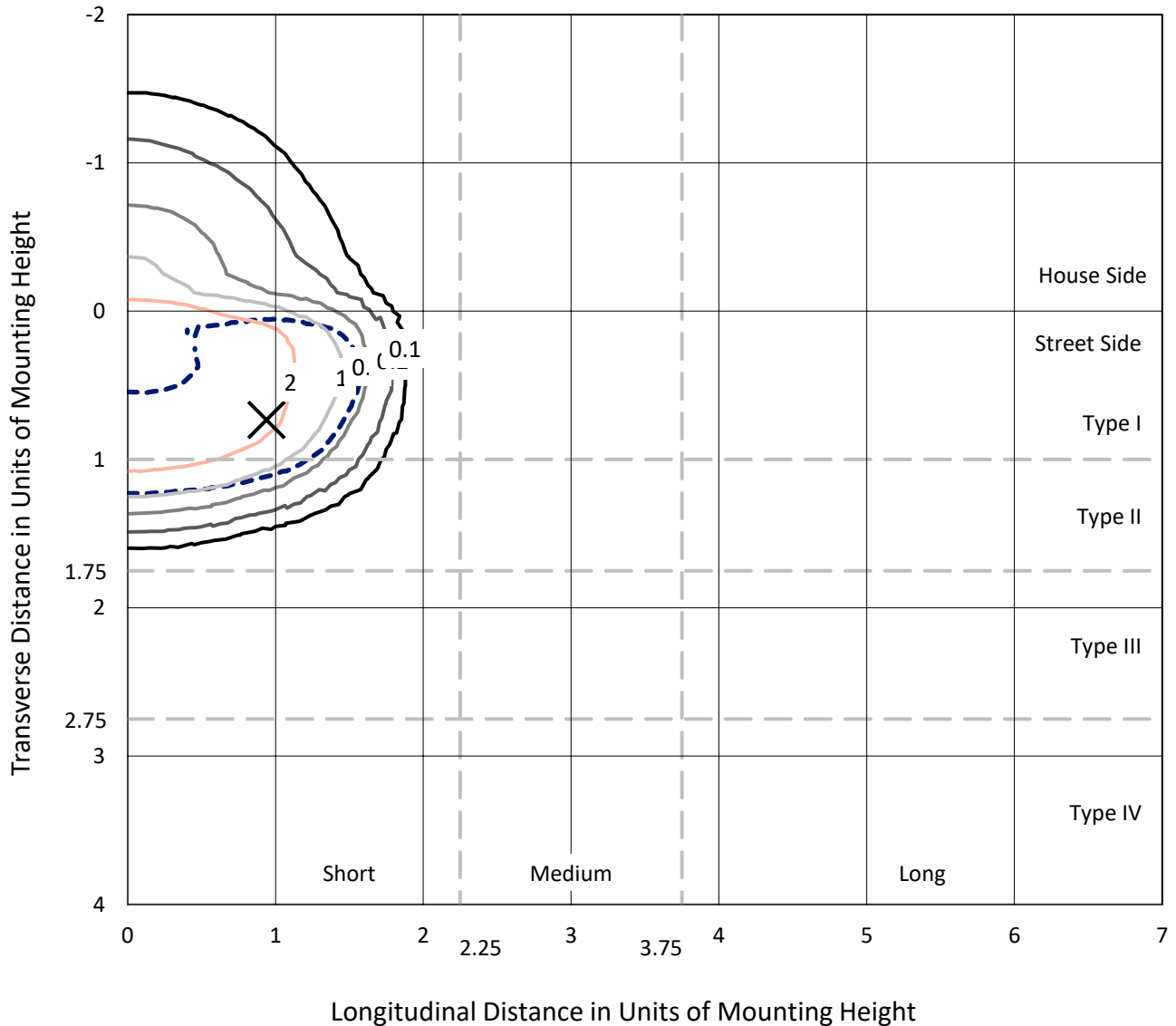
Input Watts (W): 65  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

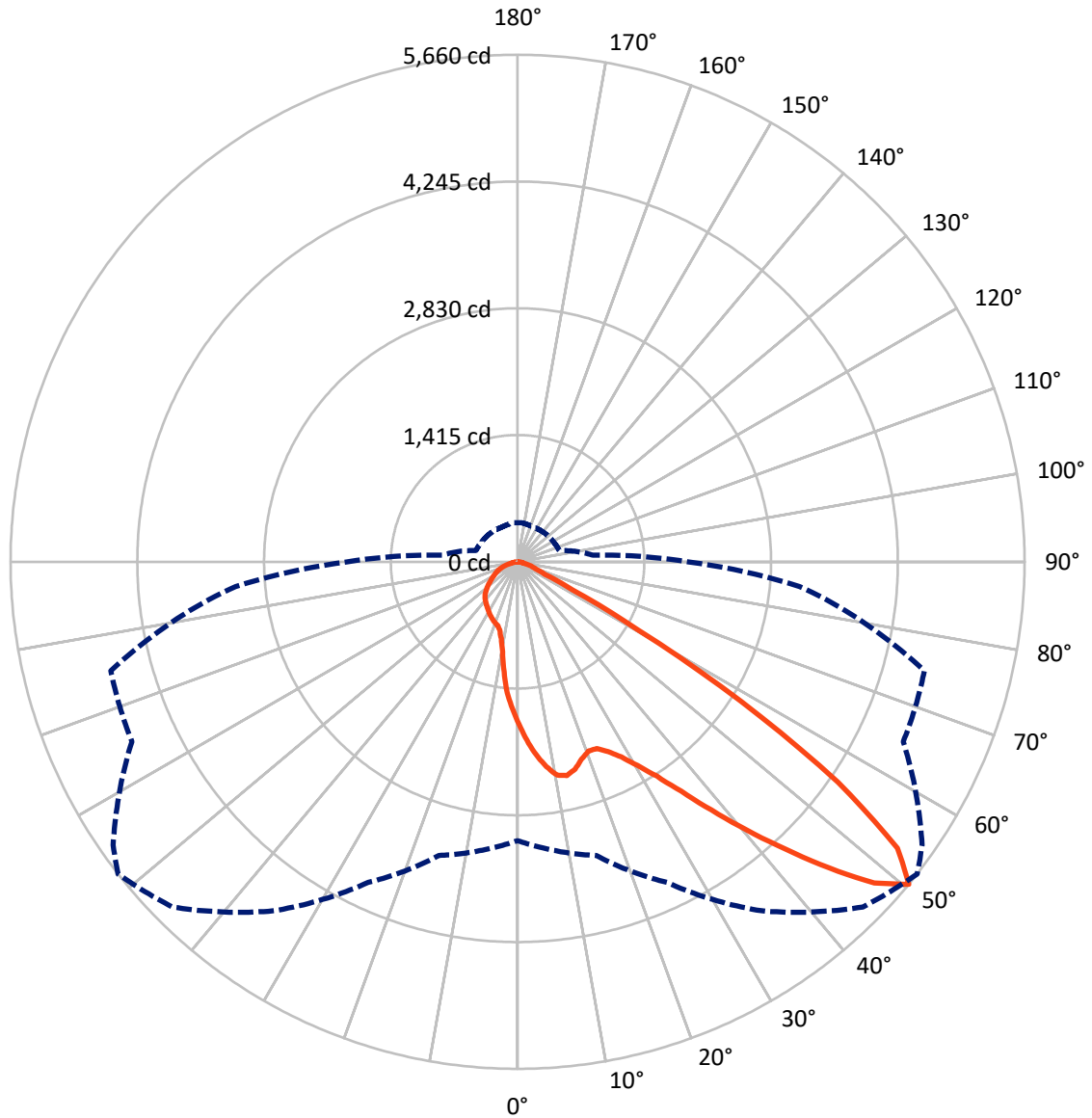
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1209.3	0.0	1209.3
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	5223.8	0.0	5223.8
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	6433.0	0.0	6433.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	167.1	2.6
10°-20°	448.0	7.0
20°-30°	754.6	11.7
30°-40°	1266.3	19.7
40°-50°	1937.1	30.1
50°-60°	1412.3	22.0
60°-70°	314.3	4.9
70°-80°	113.4	1.8
80°-90°	20.1	0.3
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°	6433.0	100.0
0°-180°	6433.0	100.0

**Coefficient of Utilization**

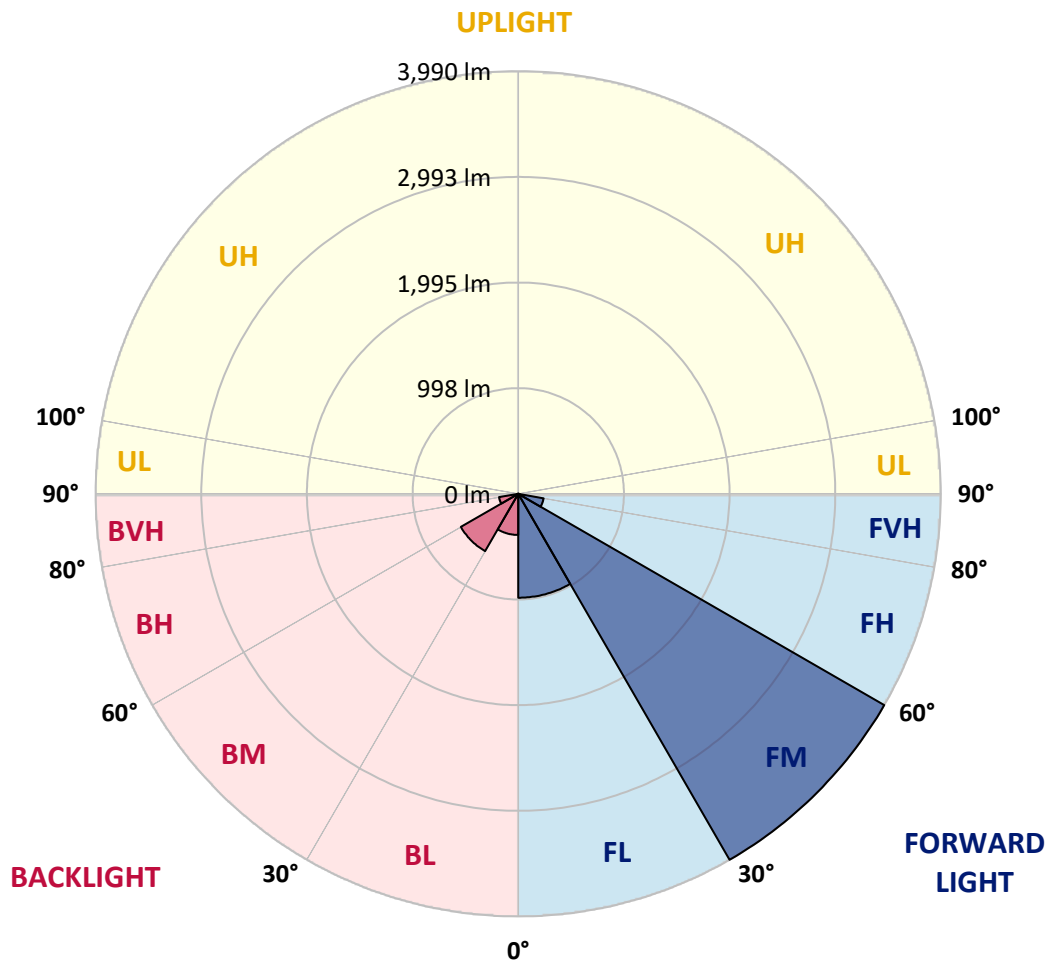


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	981.3	15.3			
FM (30°-60°)	3990.1	62.0			
FH (60°-80°)	243.4	3.8			G0/660
FVH (80°-90°)	9.0	0.1			G0/10
BL (0°-30°)	388.4	6.0	B1/500		
BM (30°-60°)	625.5	9.7	B1/1000		
BH (60°-80°)	184.2	2.9	B1/500		G1/500
BVH (80°-90°)	11.1	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	1813.4	1813.4	1813.4	1813.4	1813.4	1813.4	1813.4	1813.4	1813.4	1813.4	1813.4
2.5°	2135.1	2094.0	2098.7	2069.2	2037.4	2028.1	1995.5	1964.5	1941.3	1891.7	1845.9
5°	2333.6	2321.2	2302.6	2279.3	2255.3	2196.3	2163.0	2124.2	2039.0	1962.2	1886.2
7.5°	2362.2	2359.9	2370.0	2370.0	2378.5	2356.0	2308.8	2281.6	2190.9	2066.1	1925.0
10°	2160.7	2167.7	2216.5	2280.1	2368.4	2429.7	2421.9	2415.0	2315.7	2145.2	1970.7
12.5°	2000.2	1984.7	2013.4	2067.6	2200.2	2348.3	2448.3	2449.1	2423.5	2271.5	2004.1
15°	1909.5	1920.3	1928.1	1953.7	2053.7	2225.0	2401.0	2453.0	2565.4	2360.7	2056.8
17.5°	1967.6	1931.2	1929.6	1935.8	1987.0	2115.7	2313.4	2402.6	2642.9	2475.4	2121.9
20°	2043.6	2042.8	2021.1	2013.4	2012.6	2127.3	2256.0	2377.0	2684.0	2624.3	2187.8
22.5°	2177.0	2177.0	2141.3	2124.2	2087.8	2181.6	2263.8	2346.0	2752.2	2726.6	2219.6
25°	2400.2	2363.8	2302.6	2260.7	2239.8	2273.1	2346.0	2419.6	2811.9	2835.2	2285.5
27.5°	2606.5	2549.1	2518.9	2446.8	2418.8	2399.5	2466.1	2540.6	2881.7	3004.2	2321.2
30°	2840.6	2830.5	2776.2	2683.2	2614.2	2578.5	2639.8	2713.4	3009.6	3177.1	2403.3
32.5°	3259.2	3167.8	3094.1	2980.1	2867.7	2791.7	2852.2	2901.1	3222.0	3357.7	2493.3
35°	3711.2	3681.8	3554.6	3349.2	3177.1	3108.8	3144.5	3180.9	3469.3	3633.7	2644.4
37.5°	4155.4	4115.1	4010.5	3837.6	3628.3	3489.5	3515.1	3557.7	3746.9	4005.8	2829.0
40°	4474.9	4425.2	4372.5	4346.9	4139.2	3949.2	3934.5	3945.3	4122.1	4354.7	3033.6
42.5°	4498.1	4559.4	4575.6	4678.8	4629.9	4474.1	4383.4	4385.7	4480.3	4699.7	3240.6
45°	4449.3	4392.7	4512.8	4794.3	4955.5	5028.4	4875.7	4856.3	4702.0	4899.7	3343.7
47.5°	3936.8	3952.3	4155.4	4600.5	5066.4	5392.0	5356.3	5292.0	4820.6	4892.7	3327.5
50°	3111.9	3205.7	3394.1	3948.4	4756.3	5449.4	5659.5	5510.6	4750.1	4700.5	3161.6
52.5°	2072.3	2111.1	2235.1	2950.7	3824.4	4871.0	5310.6	5344.7	4685.0	4448.5	2951.5
55°	922.6	919.5	1093.9	1541.2	2399.5	3706.6	4339.2	4547.0	4434.5	4191.9	2746.8
57.5°	390.7	403.9	475.2	666.0	1180.0	2236.7	2939.8	3122.0	3410.4	3442.2	2107.2
60°	264.4	265.9	285.3	333.4	493.8	1050.5	1542.0	1760.6	1966.9	1952.9	1117.9
62.5°	207.8	213.2	227.9	247.3	293.1	476.8	690.0	811.7	824.9	693.9	424.1
65°	177.5	178.3	193.0	209.3	229.5	277.5	332.6	338.8	342.7	330.3	311.7
67.5°	146.5	148.1	159.7	178.3	196.9	212.4	227.9	235.7	253.5	288.4	283.7
70°	116.3	118.6	128.7	144.2	161.3	170.6	189.9	196.9	213.2	240.3	251.2
72.5°	88.4	89.2	97.7	108.5	124.0	133.3	149.6	157.4	168.2	191.5	201.6
75°	63.6	65.9	72.1	77.5	79.9	86.1	101.6	110.1	125.6	135.7	136.4
77.5°	33.3	34.9	36.4	36.4	44.2	55.8	65.9	70.5	81.4	89.2	85.3
80°	13.2	14.0	17.8	24.0	31.0	40.3	47.3	49.6	58.9	63.6	65.9
82.5°	7.8	8.5	11.6	17.1	22.5	28.7	34.1	36.4	42.6	48.1	49.6
85°	3.9	4.7	7.0	10.9	14.7	17.8	17.1	16.3	16.3	15.5	16.3
87.5°	1.6	1.6	2.3	2.3	2.3	3.1	3.9	3.9	3.9	4.7	4.7
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°	1813.4	1813.4	1813.4	1813.4	1813.4	1813.4	1813.4	1813.4	1813.4	1813.4	1813.4
2.5°	1815.7	1784.7	1756.0	1703.3	1645.9	1629.6	1562.9	1538.9	1521.9	1501.7	1495.5
5°	1825.0	1783.9	1691.6	1585.4	1500.9	1392.4	1321.1	1244.3	1188.5	1174.5	1170.7
7.5°	1844.4	1773.8	1614.9	1454.4	1281.5	1134.2	1021.8	961.3	907.8	904.7	899.3
10°	1866.1	1743.6	1531.2	1279.2	1058.2	921.8	854.3	828.0	814.8	811.7	810.2
12.5°	1883.9	1737.4	1437.4	1108.6	900.1	817.9	797.8	795.4	800.9	802.4	805.5
15°	1891.7	1712.6	1324.2	955.9	801.6	771.4	779.9	789.2	793.1	803.2	795.4
17.5°	1906.4	1680.8	1184.6	835.0	746.6	752.0	766.7	777.6	783.8	790.8	780.7
20°	1914.1	1652.1	1053.6	762.9	727.2	737.3	757.4	766.0	773.7	776.8	765.2
22.5°	1907.2	1593.2	938.1	704.7	708.6	721.8	739.6	748.9	744.3	731.9	724.9
25°	1888.6	1510.2	817.9	667.5	682.2	705.5	719.5	712.5	703.9	697.0	694.6
27.5°	1887.8	1408.7	731.1	633.4	659.8	691.5	686.9	680.7	684.6	679.1	672.9
30°	1891.7	1310.2	659.8	614.0	643.5	659.0	664.4	658.2	662.9	652.8	655.9
32.5°	1871.5	1214.1	613.2	591.5	624.1	623.3	641.1	645.8	634.9	614.0	617.1
35°	1880.0	1136.5	573.7	581.5	602.4	602.4	616.3	610.9	582.2	569.8	572.9
37.5°	1938.9	1060.6	554.3	567.5	581.5	587.7	583.0	559.7	552.8	552.8	554.3
40°	1994.8	995.4	542.7	564.4	562.1	565.9	531.8	534.2	534.2	534.9	531.1
42.5°	2044.4	951.3	533.4	545.8	549.7	529.5	508.6	506.3	511.7	510.9	507.8
45°	2062.2	914.8	520.2	524.9	528.0	494.6	484.5	479.9	486.1	488.4	491.5
47.5°	1994.0	884.6	505.5	496.2	490.0	468.3	455.1	446.6	454.3	467.5	470.6
50°	1906.4	845.0	482.2	464.4	451.2	441.9	432.6	424.1	429.5	438.8	436.5
52.5°	1776.9	783.0	452.8	434.2	411.7	414.0	405.5	400.8	403.9	403.9	401.6
55°	1592.4	643.5	403.1	390.0	371.4	377.6	379.1	372.9	366.7	372.1	367.5
57.5°	1086.9	454.3	359.7	359.7	341.1	349.6	348.9	334.1	319.4	321.0	317.9
60°	628.7	362.1	331.8	328.7	309.3	316.3	317.9	307.8	285.3	286.8	283.7
62.5°	357.4	309.3	290.0	285.3	281.4	287.6	287.6	274.4	255.1	256.6	253.5
65°	303.9	286.8	258.9	258.2	256.6	258.2	252.0	238.0	221.0	214.0	214.7
67.5°	276.0	265.1	238.0	231.0	226.4	225.6	214.0	200.8	193.0	186.8	186.1
70°	241.9	233.4	213.2	203.9	199.2	188.4	176.8	168.2	157.4	154.3	157.4
72.5°	191.5	190.7	183.0	172.9	162.8	154.3	144.2	132.6	122.5	120.2	114.7
75°	132.6	134.1	135.7	134.1	125.6	114.7	103.1	93.8	81.4	74.4	72.9
77.5°	86.8	89.2	91.5	88.4	83.0	72.9	65.1	53.5	44.2	38.8	38.0
80°	63.6	66.7	68.2	65.9	59.7	51.9	43.4	34.1	27.1	22.5	22.5
82.5°	48.8	51.9	53.5	49.6	43.4	37.2	31.0	24.0	18.6	14.7	14.0
85°	17.1	16.3	19.4	20.2	24.0	22.5	18.6	14.0	10.9	7.8	7.0
87.5°	4.7	4.7	5.4	5.4	4.7	3.9	3.9	3.9	3.1	2.3	2.3
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)