

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: P527063

Luminaire Tested: **GALN-SA2A-740-U-SL3-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P527063  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2A-740-U-SL3-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5378 lumens  
Efficiency: N/A  
Efficacy: 85.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G0

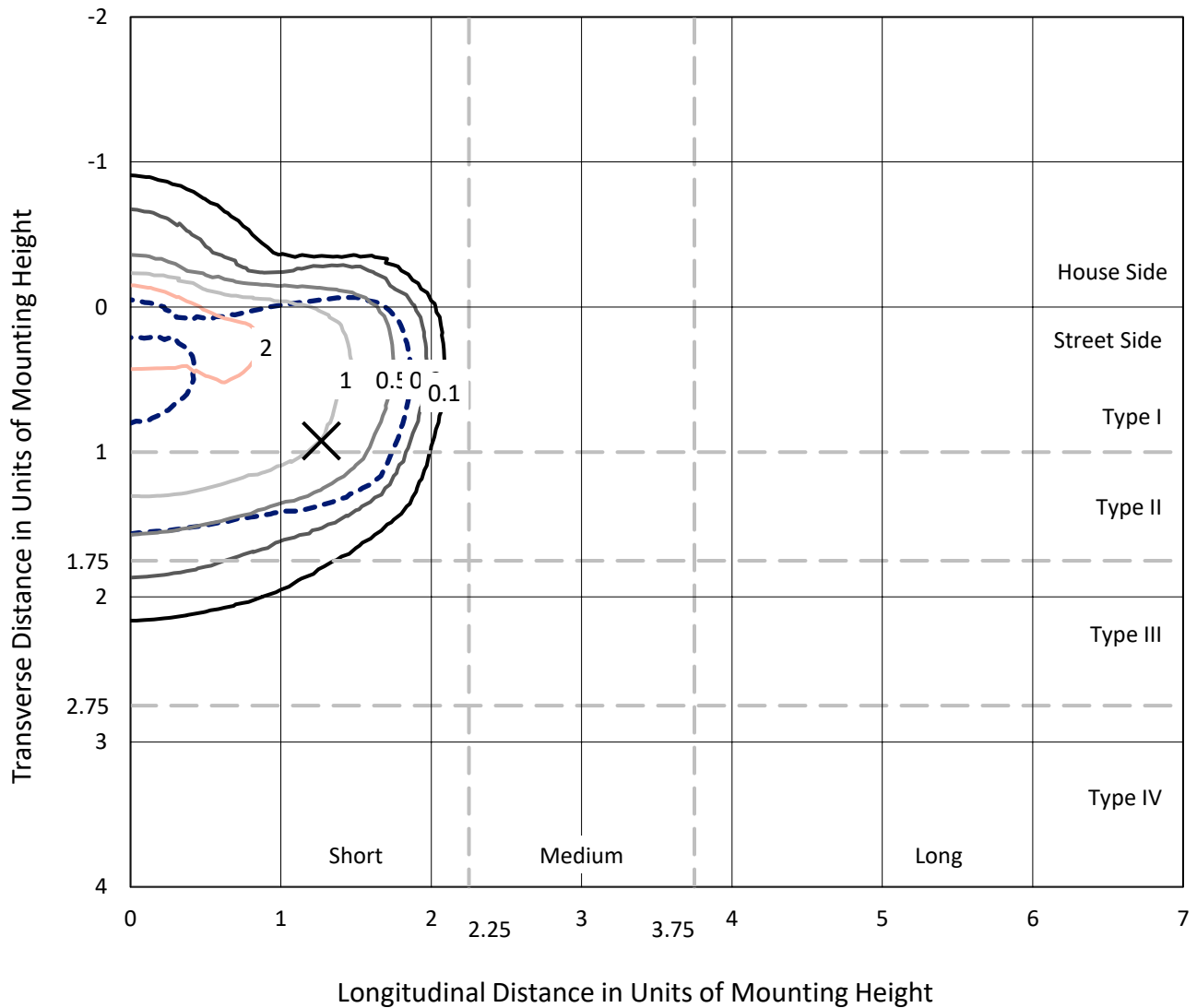
Input Watts (W): 63  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

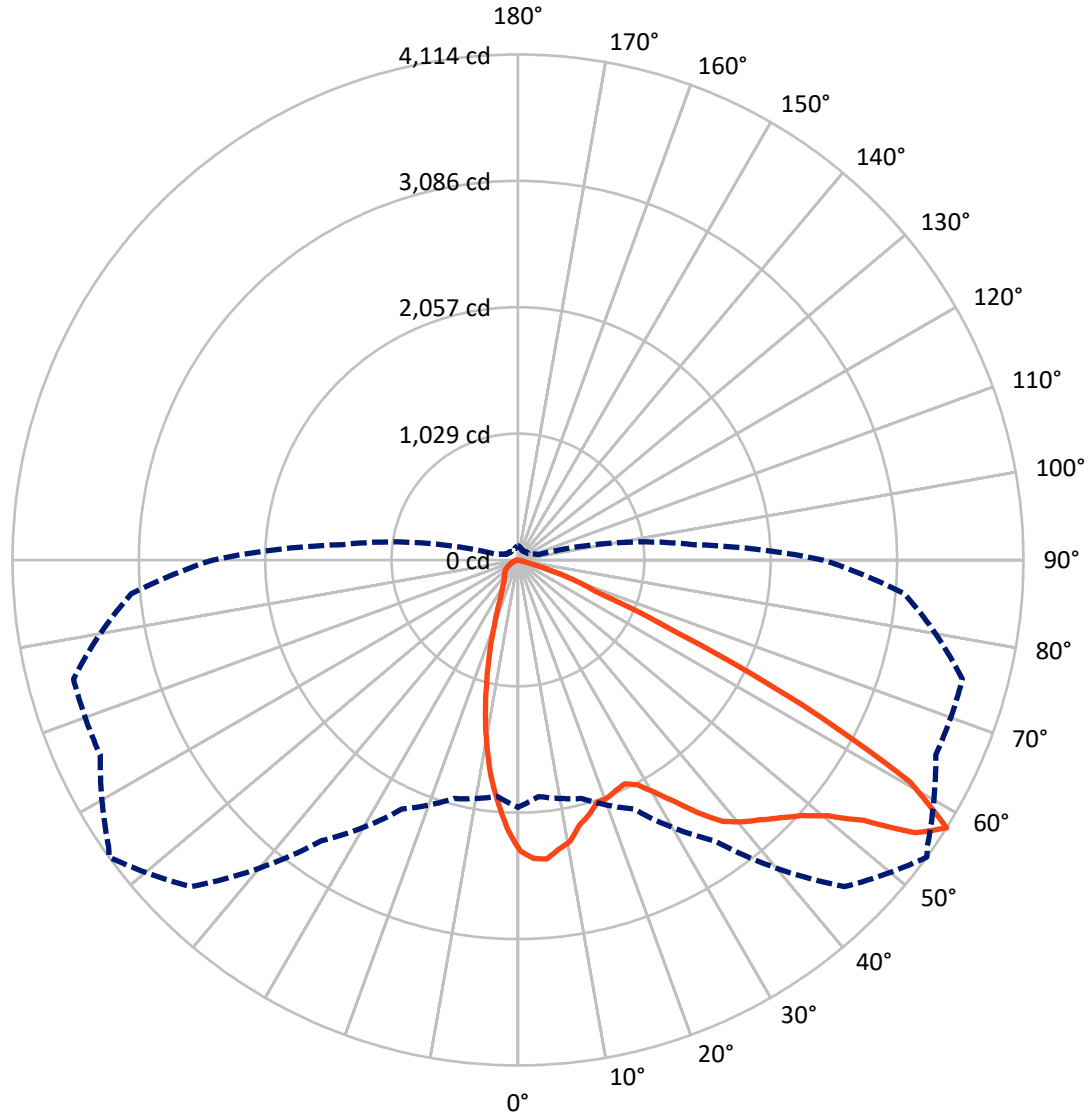
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral      - - - Horizontal Cone Through 57.5-Deg Vertical

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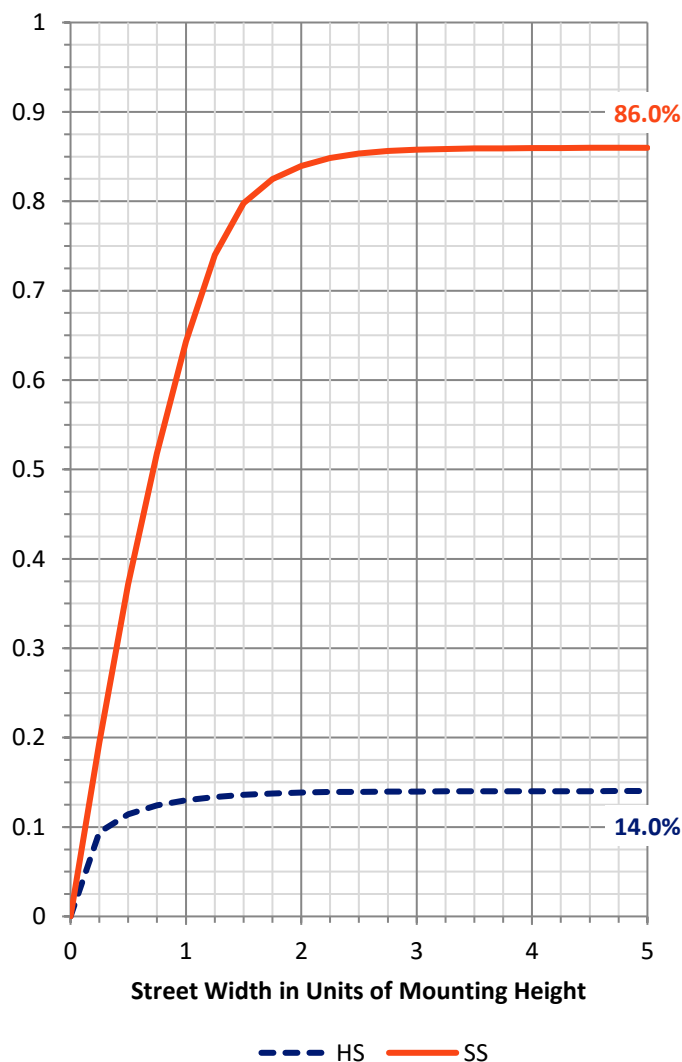
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	760.0	0.0	760.0
	% Fixture	14.1	0.0	14.1
<b>Street Side</b>	Lumens	4618.0	0.0	4618.0
	% Fixture	85.9	0.0	85.9
<b>Total</b>	Lumens	5378.0	0.0	5378.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	198.3	3.7
10°-20°	423.3	7.9
20°-30°	560.9	10.4
30°-40°	815.2	15.2
40°-50°	1208.8	22.5
50°-60°	1511.5	28.1
60°-70°	596.2	11.1
70°-80°	59.4	1.1
80°-90°	4.6	0.1
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°	5378.0	100.0
0°-180°	5378.0	100.0

**Coefficient of Utilization**

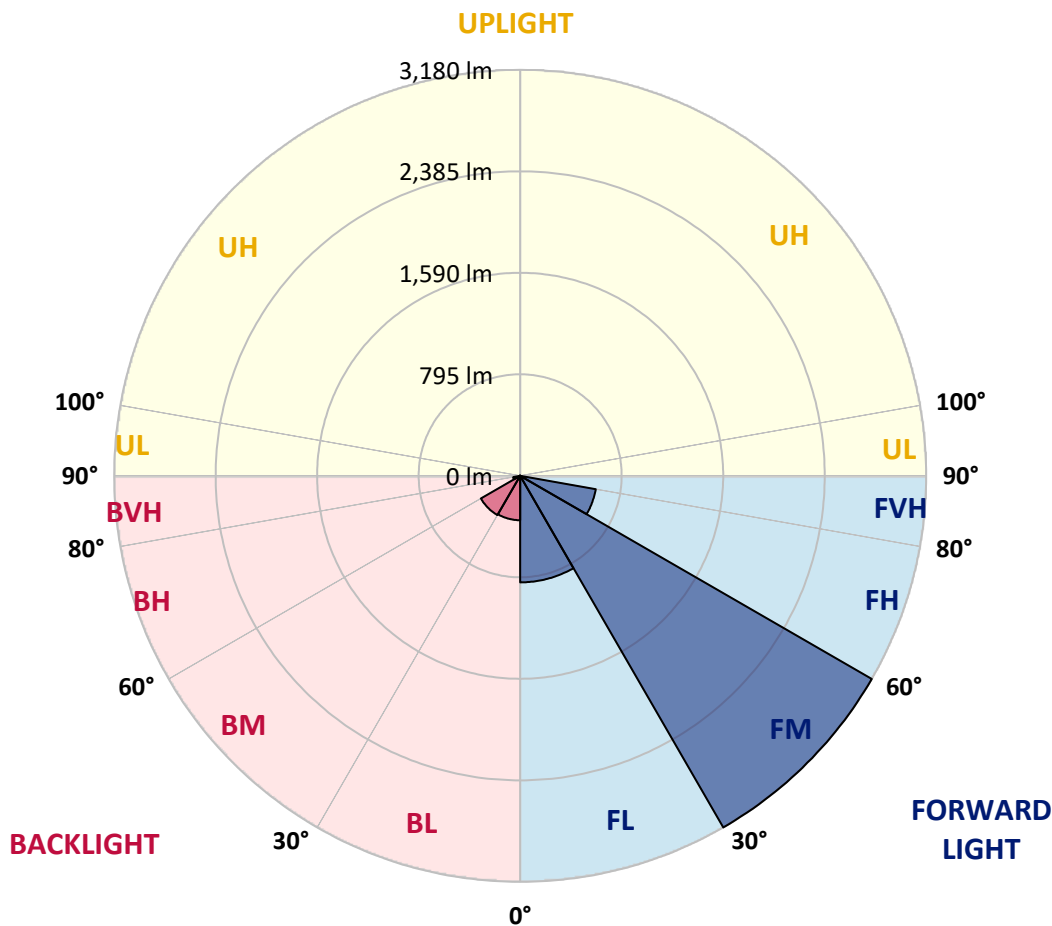


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	834.8	15.5			
FM (30°-60°)	3180.0	59.1			
FH (60°-80°)	601.1	11.2			G0/660
FVH (80°-90°)	2.1	0.0			G0/10
BL (0°-30°)	347.6	6.5	B1/500		
BM (30°-60°)	355.4	6.6	B1/1000		
BH (60°-80°)	54.5	1.0	B0/110		G0/110
BVH (80°-90°)	2.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G0**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	2369.1	2369.1	2369.1	2369.1	2369.1	2369.1	2369.1	2369.1	2369.1	2369.1	2369.1
2.5°	2507.1	2481.1	2483.1	2474.1	2462.1	2471.1	2432.1	2441.1	2440.1	2387.1	2352.1
5°	2444.1	2472.1	2443.1	2467.1	2444.1	2469.1	2445.1	2427.1	2398.1	2359.1	2294.1
7.5°	2337.1	2310.1	2318.1	2348.1	2353.1	2409.1	2379.1	2402.1	2390.1	2313.1	2224.1
10°	2122.1	2116.1	2156.1	2196.1	2245.1	2305.1	2328.1	2315.1	2306.1	2277.1	2158.1
12.5°	1957.1	1974.1	1973.1	2039.1	2122.1	2156.1	2216.1	2214.1	2264.1	2210.1	2096.1
15°	1800.1	1809.1	1851.1	1892.1	1984.1	2081.1	2155.1	2165.1	2225.1	2187.1	2048.1
17.5°	1704.1	1691.1	1724.1	1773.1	1867.1	1994.1	2076.1	2100.1	2182.1	2174.1	1993.1
20°	1609.1	1609.1	1636.1	1694.1	1780.1	1923.1	2069.1	2062.1	2182.1	2159.1	1934.1
22.5°	1577.1	1593.1	1600.1	1644.1	1746.1	1869.1	2039.1	2052.1	2199.1	2152.1	1908.1
25°	1621.1	1600.1	1602.1	1637.1	1733.1	1843.1	2017.1	2046.1	2230.1	2187.1	1887.1
27.5°	1628.1	1649.1	1655.1	1679.1	1743.1	1851.1	2072.1	2131.1	2307.1	2269.1	1893.1
30°	1689.1	1710.1	1709.1	1750.1	1794.1	1916.1	2195.1	2207.1	2466.1	2372.1	1930.1
32.5°	1763.1	1785.1	1792.1	1840.1	1875.1	2035.1	2345.1	2376.1	2619.1	2534.1	2027.1
35°	1855.1	1847.1	1879.1	1927.1	2002.1	2209.1	2528.1	2580.1	2784.1	2744.1	2127.1
37.5°	1970.1	1960.1	1991.1	2069.1	2171.1	2415.1	2697.1	2731.1	2904.1	2939.1	2312.1
40°	2051.1	2055.1	2149.1	2254.1	2362.1	2611.1	2804.1	2837.1	2988.1	3121.1	2452.1
42.5°	2186.1	2211.1	2324.1	2452.1	2565.1	2758.1	2891.1	2923.1	3027.1	3267.1	2641.1
45°	2382.1	2371.1	2496.1	2639.1	2764.1	2911.1	2994.1	2983.1	3050.1	3412.1	2760.1
47.5°	2634.1	2636.1	2719.1	2841.1	2971.1	3044.1	3109.1	3070.1	3098.1	3565.1	2919.1
50°	2806.1	2821.1	2888.1	3013.1	3078.1	3190.1	3273.1	3249.1	3240.1	3657.1	3019.1
52.5°	2850.1	2895.1	2931.1	3087.1	3239.1	3416.1	3522.1	3573.1	3413.1	3688.1	3146.1
55°	2518.1	2558.1	2685.1	2899.1	3300.1	3774.1	3920.1	3921.1	3639.1	3826.1	3235.1
57.5°	2013.1	1932.1	2010.1	2237.1	2790.1	3759.1	4114.1	4067.1	3752.1	3745.1	3158.1
60°	1392.0	1372.0	1377.0	1467.1	1931.1	2990.1	3666.1	3727.1	3455.1	3246.1	2500.1
62.5°	1103.0	1086.0	1064.0	1054.0	1199.0	1863.1	2586.1	2672.1	2416.1	2105.1	1482.1
65°	864.0	854.0	857.0	897.0	896.0	1057.0	1414.0	1379.0	1104.0	816.0	466.0
67.5°	583.0	598.0	610.0	731.0	793.0	736.0	683.0	663.0	359.0	151.0	103.0
70°	328.0	330.0	343.0	457.0	602.0	571.0	471.0	471.0	179.0	55.0	59.0
72.5°	179.0	173.0	161.0	197.0	268.0	272.0	210.0	183.0	53.0	36.0	33.0
75°	87.0	86.0	74.0	61.0	58.0	48.0	37.0	34.0	24.0	23.0	20.0
77.5°	18.0	17.0	9.0	9.0	10.0	11.0	14.0	14.0	17.0	17.0	14.0
80°	0.0	0.0	1.0	4.0	7.0	10.0	12.0	12.0	14.0	14.0	11.0
82.5°	0.0	0.0	1.0	3.0	6.0	9.0	11.0	12.0	14.0	15.0	12.0
85°	0.0	0.0	0.0	2.0	5.0	7.0	6.0	6.0	5.0	4.0	2.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2369.1	2369.1	2369.1	2369.1	2369.1	2369.1	2369.1	2369.1	2369.1	2369.1	2369.1
2.5°	2334.1	2332.1	2286.1	2260.1	2213.1	2172.1	2139.1	2115.1	2115.1	2100.1	2086.1
5°	2268.1	2251.1	2153.1	2090.1	2001.1	1935.1	1890.1	1855.1	1800.1	1815.1	1756.1
7.5°	2186.1	2143.1	2013.1	1917.1	1794.1	1700.1	1604.1	1519.1	1437.0	1400.0	1420.0
10°	2098.1	2023.1	1848.1	1696.1	1543.1	1371.0	1259.0	1123.0	1039.0	1034.0	1012.0
12.5°	2005.1	1920.1	1707.1	1497.1	1296.0	1089.0	918.0	791.0	734.0	671.0	683.0
15°	1935.1	1809.1	1550.1	1297.0	1030.0	821.0	649.0	551.0	497.0	482.0	477.0
17.5°	1859.1	1724.1	1390.0	1084.0	808.0	591.0	467.0	420.0	399.0	399.0	396.0
20°	1780.1	1628.1	1231.0	886.0	606.0	441.0	374.0	359.0	358.0	357.0	357.0
22.5°	1728.1	1518.1	1087.0	704.0	457.0	353.0	325.0	319.0	323.0	335.0	335.0
25°	1673.1	1412.0	928.0	543.0	354.0	303.0	287.0	291.0	301.0	312.0	308.0
27.5°	1617.1	1343.0	778.0	426.0	290.0	265.0	259.0	268.0	279.0	289.0	286.0
30°	1604.1	1269.0	636.0	323.0	249.0	231.0	235.0	243.0	254.0	258.0	262.0
32.5°	1624.1	1211.0	521.0	265.0	217.0	212.0	212.0	216.0	223.0	232.0	229.0
35°	1681.1	1178.0	412.0	230.0	199.0	194.0	193.0	197.0	201.0	204.0	201.0
37.5°	1768.1	1152.0	337.0	204.0	187.0	179.0	177.0	176.0	180.0	181.0	183.0
40°	1879.1	1166.0	286.0	188.0	175.0	166.0	160.0	160.0	160.0	163.0	164.0
42.5°	1999.1	1185.0	247.0	179.0	164.0	153.0	147.0	145.0	147.0	151.0	150.0
45°	2125.1	1222.0	222.0	165.0	154.0	140.0	132.0	130.0	135.0	143.0	142.0
47.5°	2243.1	1275.0	203.0	156.0	144.0	131.0	121.0	119.0	128.0	139.0	140.0
50°	2361.1	1367.0	196.0	149.0	137.0	122.0	113.0	111.0	121.0	135.0	138.0
52.5°	2497.1	1466.1	191.0	140.0	129.0	115.0	105.0	103.0	114.0	132.0	133.0
55°	2586.1	1550.1	187.0	124.0	114.0	104.0	96.0	95.0	107.0	123.0	127.0
57.5°	2482.1	1433.0	173.0	108.0	97.0	92.0	85.0	85.0	95.0	110.0	113.0
60°	1882.1	943.0	123.0	87.0	82.0	79.0	76.0	76.0	84.0	95.0	96.0
62.5°	1102.0	508.0	79.0	70.0	70.0	67.0	62.0	62.0	70.0	76.0	77.0
65°	327.0	163.0	64.0	60.0	59.0	54.0	49.0	48.0	54.0	57.0	56.0
67.5°	94.0	75.0	53.0	50.0	49.0	41.0	38.0	37.0	38.0	36.0	35.0
70°	56.0	51.0	41.0	42.0	37.0	30.0	27.0	26.0	24.0	21.0	19.0
72.5°	31.0	31.0	30.0	32.0	26.0	20.0	17.0	14.0	11.0	9.0	8.0
75°	19.0	20.0	21.0	22.0	17.0	13.0	11.0	7.0	4.0	2.0	2.0
77.5°	13.0	14.0	15.0	16.0	14.0	12.0	9.0	5.0	1.0	0.0	0.0
80°	10.0	11.0	13.0	14.0	15.0	16.0	12.0	5.0	1.0	0.0	0.0
82.5°	11.0	12.0	15.0	14.0	14.0	14.0	11.0	5.0	1.0	0.0	0.0
85°	2.0	3.0	5.0	5.0	7.0	9.0	7.0	2.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)