

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: P453058

Luminaire Tested: **GALN-SA4A-740-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453058
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4A-740-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18051 lumens
Efficiency: N/A
Efficacy: 149.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

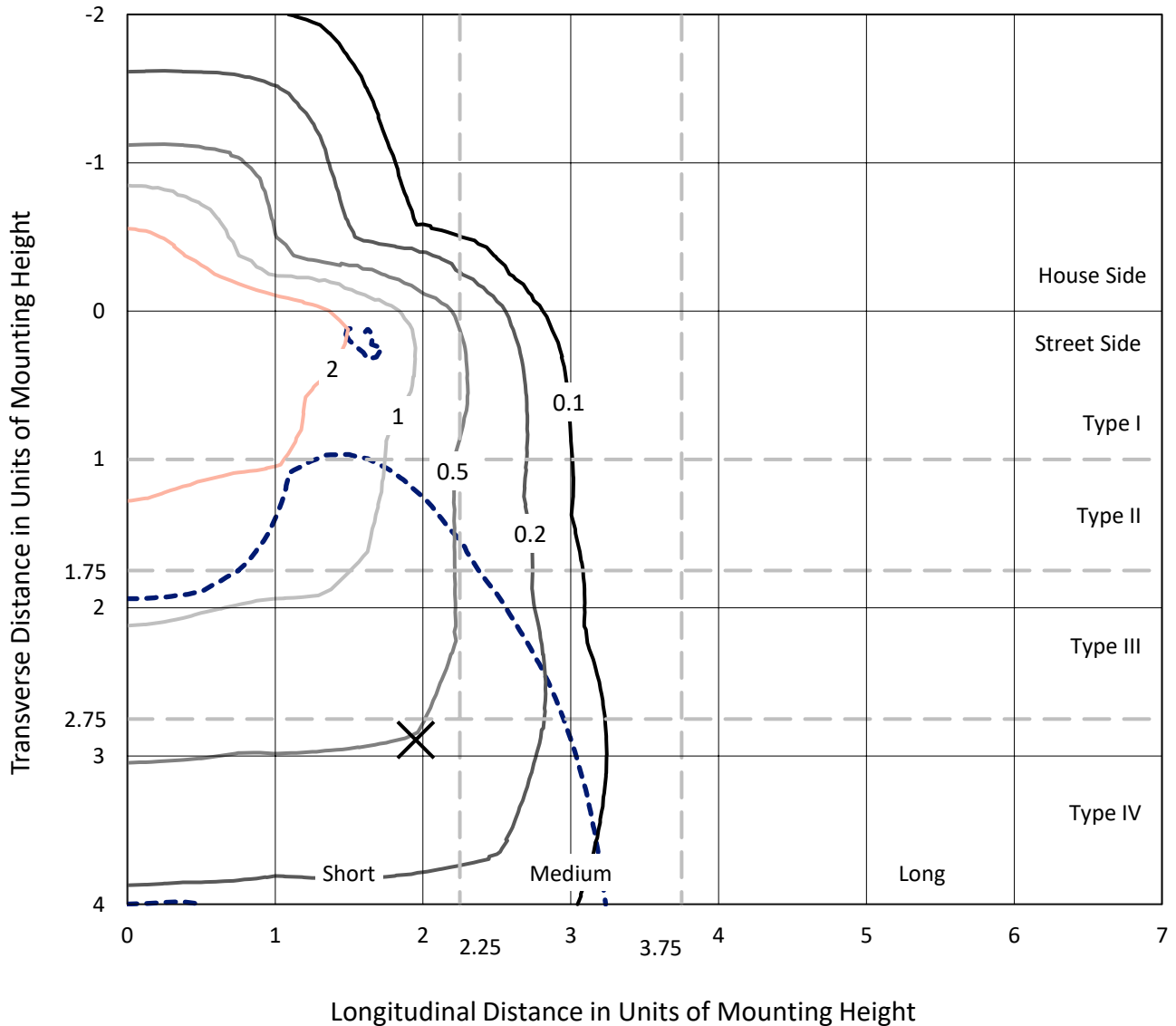
Input Watts (W): 121
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

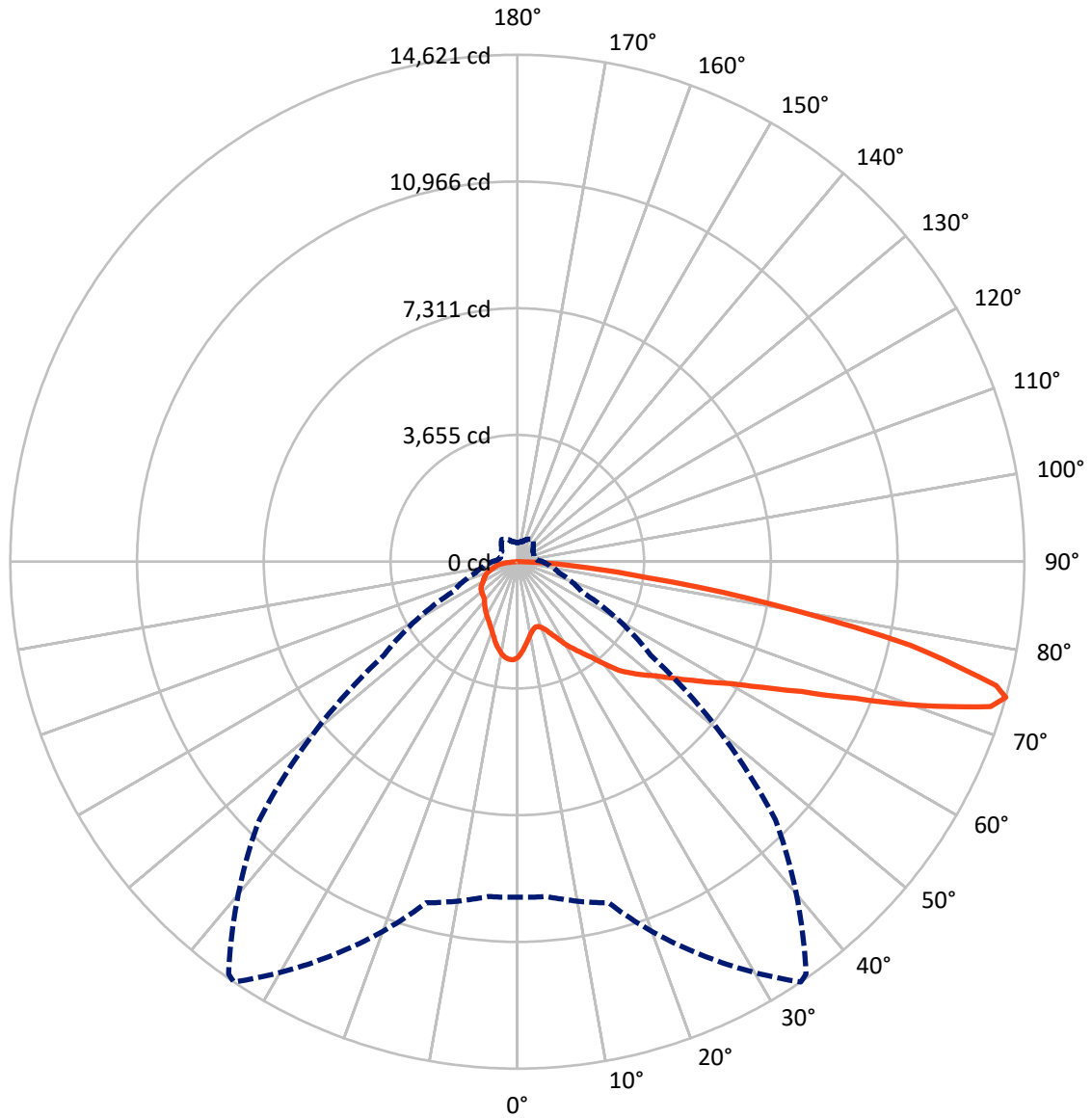
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical



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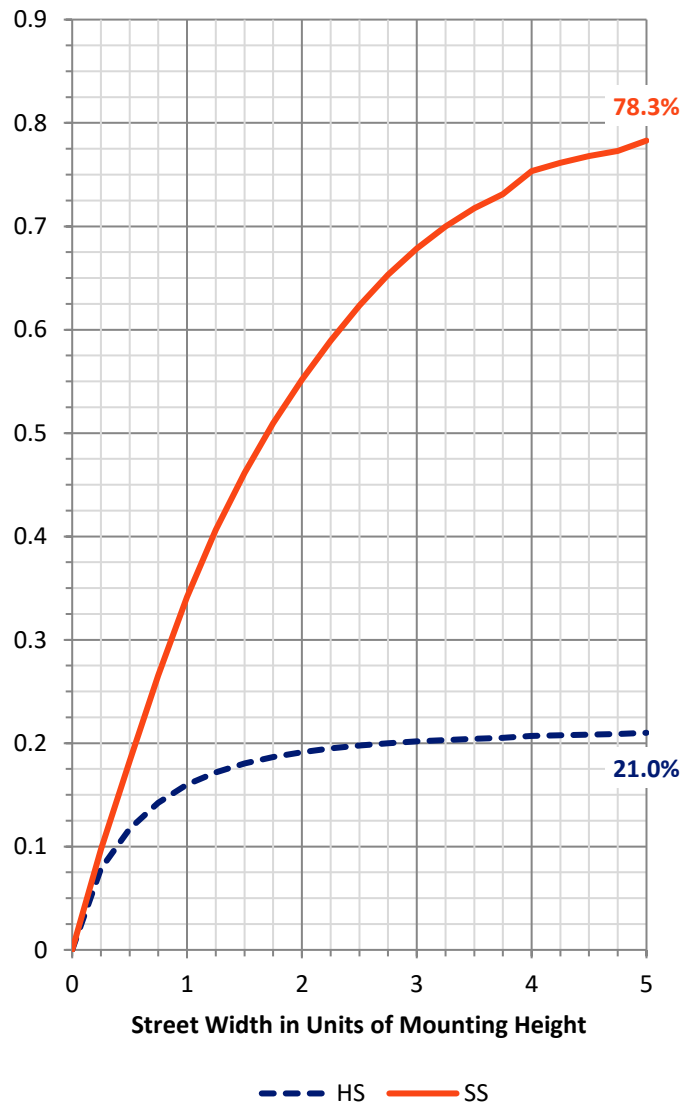
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3841.3	0.0	3841.3
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	14209.6	0.0	14209.6
	% Fixture	78.7	0.0	78.7
Total	Lumens	18051.0	0.0	18051.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	250.6	1.4
10°-20°	686.1	3.8
20°-30°	1131.3	6.3
30°-40°	1694.5	9.4
40°-50°	2463.4	13.6
50°-60°	3440.7	19.1
60°-70°	4307.6	23.9
70°-80°	3562.0	19.7
80°-90°	514.7	2.9
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°	18051.0	100.0
0°-180°	18051.0	100.0



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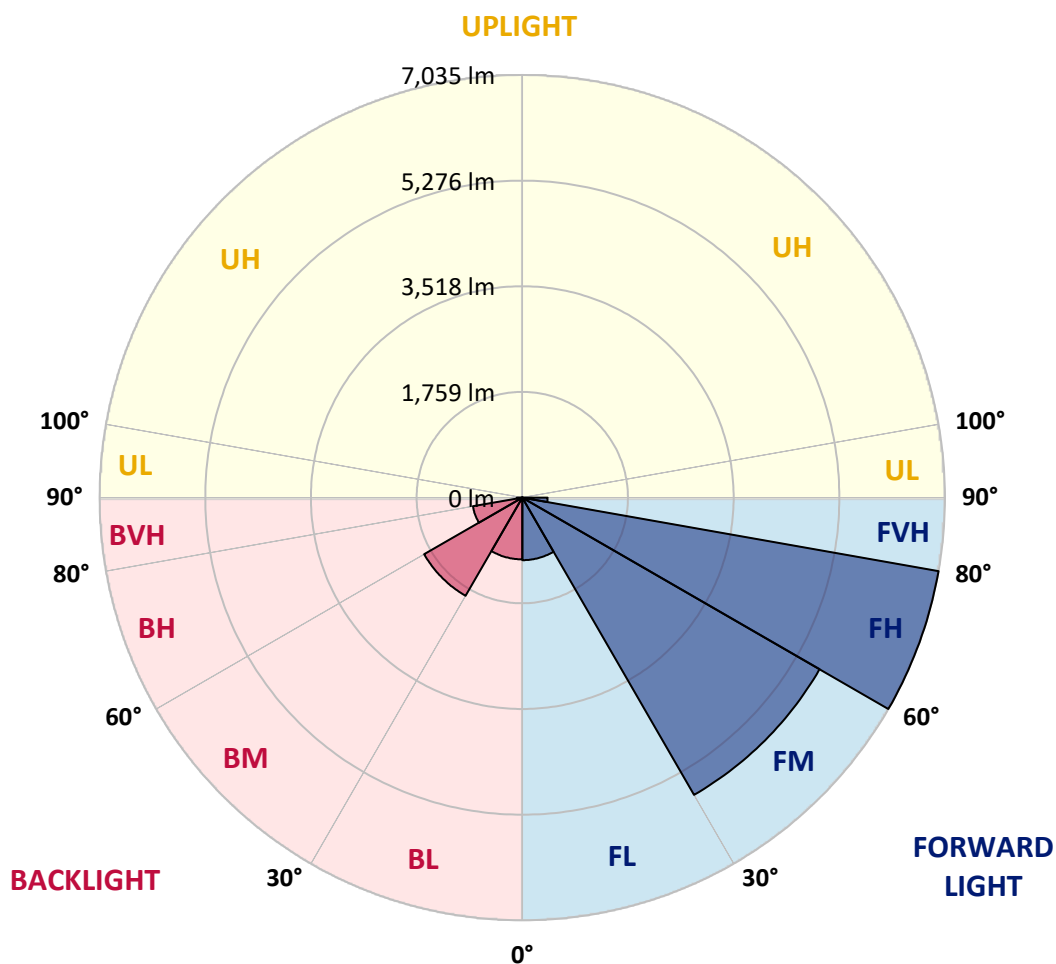
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1040.5	5.8			
FM (30°-60°)	5712.1	31.6			
FH (60°-80°)	7035.3	39.0			G3/7500
FVH (80°-90°)	421.6	2.3			G3/500
BL (0°-30°)	1027.5	5.7	B3/2500		
BM (30°-60°)	1886.5	10.5	B2/2500		
BH (60°-80°)	834.3	4.6	B2/1000		G2/1000
BVH (80°-90°)	93.0	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	2756.0	2756.0	2756.0	2756.0	2756.0	2756.0	2756.0	2756.0	2756.0	2756.0	2756.0
2.5°	2547.0	2560.0	2567.0	2592.0	2598.0	2606.0	2627.0	2655.0	2691.0	2723.0	2751.0
5°	2335.0	2355.0	2367.0	2389.0	2432.0	2436.0	2492.0	2556.0	2629.0	2697.0	2753.0
7.5°	2134.0	2156.0	2166.0	2206.0	2263.0	2272.0	2354.0	2455.0	2577.0	2680.0	2766.0
10°	1983.0	1994.0	2016.0	2046.0	2114.0	2120.0	2227.0	2362.0	2520.0	2672.0	2788.0
12.5°	1901.0	1907.0	1912.0	1944.0	2011.0	2020.0	2132.0	2285.0	2475.0	2678.0	2824.0
15°	1913.0	1915.0	1893.0	1899.0	1953.0	1966.0	2077.0	2234.0	2447.0	2693.0	2878.0
17.5°	2014.0	2007.0	1953.0	1925.0	1963.0	1969.0	2066.0	2214.0	2434.0	2721.0	2934.0
20°	2173.0	2163.0	2070.0	2008.0	2030.0	2035.0	2102.0	2229.0	2447.0	2767.0	3021.0
22.5°	2371.0	2367.0	2226.0	2151.0	2150.0	2150.0	2185.0	2283.0	2486.0	2830.0	3112.0
25°	2648.0	2627.0	2443.0	2346.0	2319.0	2317.0	2313.0	2372.0	2536.0	2897.0	3220.0
27.5°	2932.0	2896.0	2732.0	2583.0	2525.0	2518.0	2492.0	2498.0	2600.0	2973.0	3343.0
30°	3187.0	3164.0	3010.0	2845.0	2776.0	2760.0	2688.0	2655.0	2707.0	3110.0	3539.0
32.5°	3382.0	3368.0	3248.0	3098.0	2996.0	2993.0	2888.0	2861.0	2874.0	3276.0	3763.0
35°	3540.0	3545.0	3484.0	3354.0	3237.0	3220.0	3150.0	3116.0	3078.0	3516.0	4045.0
37.5°	3756.0	3767.0	3763.0	3651.0	3508.0	3512.0	3496.0	3440.0	3339.0	3784.0	4358.0
40°	3994.0	4002.0	4001.0	3958.0	3883.0	3887.0	3881.0	3817.0	3666.0	4125.0	4706.1
42.5°	4323.0	4285.0	4186.0	4229.0	4273.0	4292.0	4333.0	4272.0	4065.0	4489.0	5033.1
45°	4691.1	4619.1	4395.0	4415.0	4578.1	4614.1	4840.1	4756.1	4498.1	4907.1	5418.1
47.5°	4923.1	4852.1	4663.1	4659.1	4875.1	4910.1	5310.1	5279.1	4892.1	5358.1	5888.1
50°	5130.1	5120.1	4907.1	4958.1	5169.1	5221.1	5822.1	5793.1	5285.1	5890.1	6400.1
52.5°	5437.1	5356.1	5186.1	5291.1	5570.1	5638.1	6330.1	6245.1	5646.1	6360.1	6897.1
55°	5575.1	5556.1	5546.1	5637.1	6020.1	6069.1	6824.1	6629.1	5954.1	6758.1	7275.1
57.5°	5944.1	5909.1	6008.1	6070.1	6550.1	6625.1	7340.1	7030.1	6224.1	7074.1	7459.1
60°	6422.1	6403.1	6494.1	6606.1	7142.1	7256.1	7928.1	7372.1	6441.1	7233.1	7358.1
62.5°	7136.1	7134.1	7117.1	7357.1	7981.1	8086.1	8603.1	7705.1	6475.1	7114.1	6836.1
65°	8160.1	8124.1	7976.1	8238.1	9025.1	9148.1	9306.1	7891.1	6270.1	6503.1	5756.1
67.5°	9231.1	9229.1	9109.1	9449.1	10524.1	10651.1	10185.1	7850.1	5701.1	5268.1	4088.0
70°	10119.1	10076.1	10229.1	11135.1	12439.1	12586.1	10954.1	7367.1	4541.1	3479.0	2429.0
72.5°	10332.1	10334.1	10652.1	12435.1	14278.2	14301.2	11231.1	5971.1	3039.0	1919.0	1215.0
74°	9676.1	9693.1	10186.1	12500.1	14621.2	14517.2	10523.1	4693.1	2055.0	1253.0	876.0
75°	8832.1	8725.1	9438.1	12067.1	14265.2	14153.2	9694.1	3766.0	1568.0	1001.0	767.0
77.5°	4722.1	4831.1	5931.1	9005.1	11589.1	11460.1	6573.1	1806.0	847.0	697.0	552.0
80°	1681.0	1854.0	2606.0	4712.1	7430.1	7470.1	3137.0	828.0	596.0	514.0	390.0
82.5°	686.0	705.0	1119.0	2091.0	3773.0	3809.0	1281.0	492.0	426.0	354.0	233.0
85°	268.0	276.0	495.0	940.0	1610.0	1715.0	443.0	260.0	262.0	203.0	119.0
87.5°	90.0	102.0	203.0	313.0	547.0	536.0	129.0	77.0	94.0	88.0	37.0
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°	2756.0	2756.0	2756.0	2756.0	2756.0	2756.0	2756.0	2756.0	2756.0	2756.0	2756.0
2.5°	2765.0	2784.0	2797.0	2811.0	2824.0	2828.0	2825.0	2834.0	2835.0	2836.0	2837.0
5°	2781.0	2807.0	2832.0	2846.0	2852.0	2847.0	2830.0	2821.0	2813.0	2807.0	2809.0
7.5°	2803.0	2840.0	2863.0	2869.0	2853.0	2830.0	2788.0	2755.0	2734.0	2720.0	2719.0
10°	2837.0	2873.0	2892.0	2875.0	2831.0	2775.0	2709.0	2647.0	2600.0	2586.0	2585.0
12.5°	2880.0	2921.0	2920.0	2870.0	2793.0	2693.0	2586.0	2514.0	2450.0	2418.0	2431.0
15°	2936.0	2967.0	2938.0	2848.0	2726.0	2589.0	2457.0	2359.0	2287.0	2253.0	2255.0
17.5°	3001.0	3028.0	2951.0	2809.0	2632.0	2456.0	2303.0	2210.0	2153.0	2128.0	2126.0
20°	3082.0	3090.0	2951.0	2741.0	2511.0	2301.0	2155.0	2090.0	2058.0	2045.0	2049.0
22.5°	3169.0	3153.0	2935.0	2645.0	2352.0	2139.0	2041.0	2012.0	1996.0	1994.0	1996.0
25°	3267.0	3222.0	2902.0	2515.0	2186.0	1999.0	1942.0	1947.0	1950.0	1950.0	1957.0
27.5°	3387.0	3297.0	2847.0	2351.0	1992.0	1869.0	1853.0	1888.0	1904.0	1907.0	1912.0
30°	3545.0	3379.0	2756.0	2146.0	1827.0	1752.0	1780.0	1827.0	1845.0	1856.0	1854.0
32.5°	3733.0	3469.0	2633.0	1941.0	1694.0	1670.0	1704.0	1752.0	1772.0	1778.0	1770.0
35°	3954.0	3571.0	2471.0	1749.0	1578.0	1592.0	1632.0	1647.0	1665.0	1665.0	1669.0
37.5°	4192.0	3653.0	2273.0	1573.0	1488.0	1539.0	1568.0	1554.0	1546.0	1536.0	1541.0
40°	4434.0	3714.0	2016.0	1399.0	1398.0	1484.0	1492.0	1452.0	1420.0	1410.0	1405.0
42.5°	4645.1	3752.0	1784.0	1264.0	1313.0	1430.0	1436.0	1372.0	1321.0	1291.0	1281.0
45°	4894.1	3796.0	1557.0	1152.0	1234.0	1387.0	1402.0	1316.0	1241.0	1178.0	1162.0
47.5°	5235.1	3896.0	1378.0	1065.0	1177.0	1360.0	1381.0	1270.0	1171.0	1089.0	1076.0
50°	5620.1	4033.0	1239.0	1006.0	1133.0	1336.0	1362.0	1223.0	1106.0	1015.0	1005.0
52.5°	5973.1	4107.0	1119.0	953.0	1090.0	1292.0	1337.0	1189.0	1042.0	941.0	932.0
55°	6166.1	3987.0	1001.0	901.0	1031.0	1235.0	1302.0	1142.0	980.0	902.0	889.0
57.5°	6192.1	3739.0	894.0	845.0	969.0	1165.0	1237.0	1085.0	940.0	875.0	864.0
60°	5991.1	3369.0	811.0	799.0	906.0	1086.0	1164.0	1035.0	899.0	845.0	834.0
62.5°	5491.1	2967.0	753.0	757.0	842.0	1003.0	1110.0	987.0	860.0	812.0	802.0
65°	4631.1	2449.0	697.0	714.0	785.0	938.0	1061.0	947.0	821.0	787.0	778.0
67.5°	3217.0	1768.0	651.0	669.0	731.0	872.0	1004.0	904.0	777.0	759.0	745.0
70°	1781.0	1088.0	597.0	618.0	675.0	798.0	940.0	839.0	713.0	705.0	685.0
72.5°	936.0	693.0	536.0	559.0	599.0	703.0	842.0	768.0	650.0	616.0	590.0
74°	731.0	568.0	495.0	519.0	546.0	647.0	784.0	717.0	605.0	565.0	545.0
75°	637.0	506.0	460.0	491.0	515.0	609.0	739.0	681.0	580.0	542.0	524.0
77.5°	450.0	379.0	376.0	413.0	426.0	534.0	666.0	620.0	517.0	477.0	460.0
80°	316.0	284.0	298.0	321.0	339.0	472.0	618.0	536.0	424.0	377.0	371.0
82.5°	206.0	186.0	213.0	234.0	240.0	348.0	499.0	407.0	309.0	251.0	233.0
85°	95.0	93.0	122.0	119.0	118.0	170.0	296.0	238.0	178.0	133.0	125.0
87.5°	24.0	23.0	30.0	25.0	30.0	26.0	27.0	7.0	1.0	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)