

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: P646940

Luminaire Tested: **GALN-SA5C-835-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P646940
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5C-835-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23366.3 lumens
Efficiency: N/A
Efficacy: 86.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

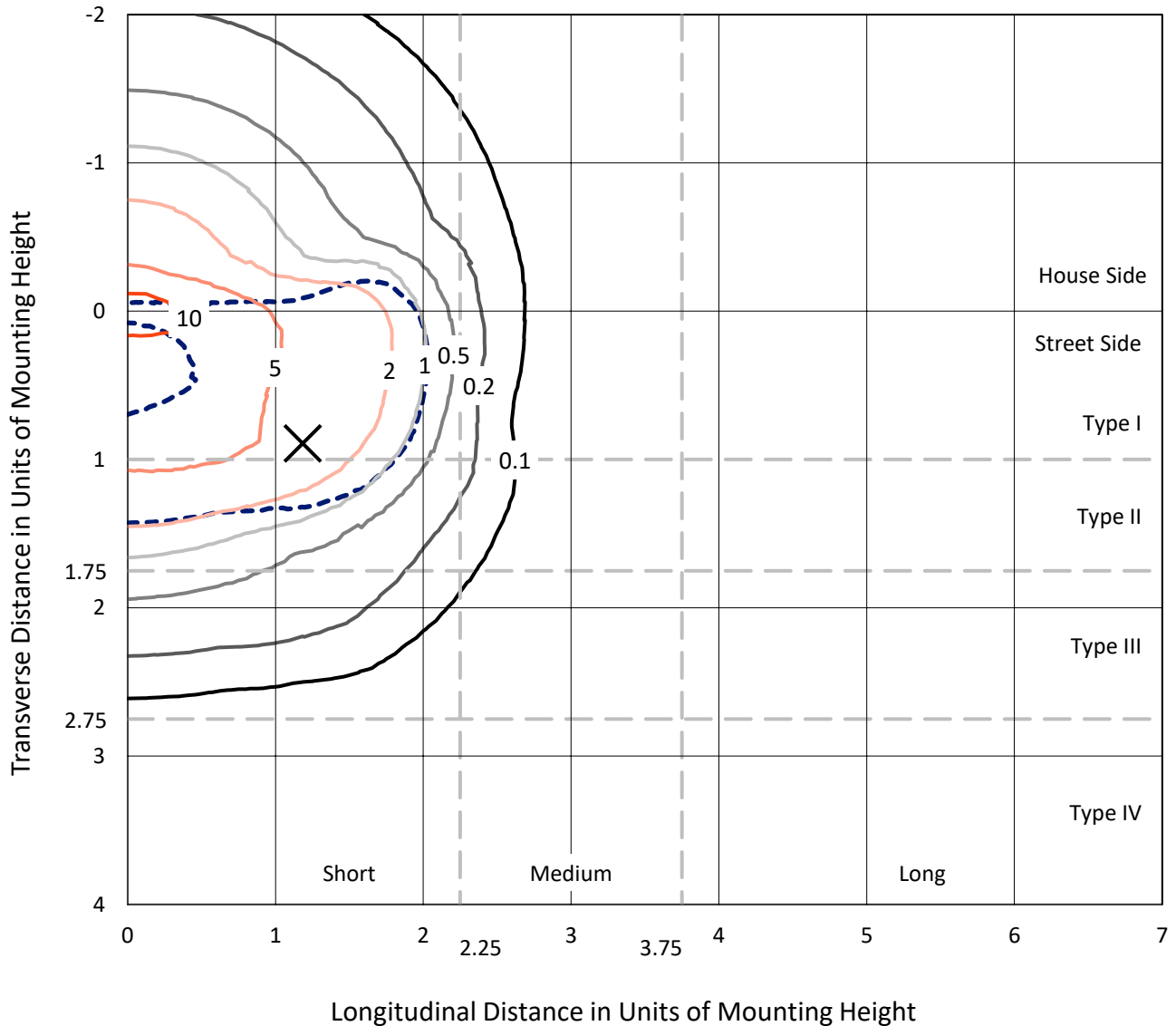
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P646940
 CATALOG NUMBER: GALN-SA5C-835-U-SL2-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

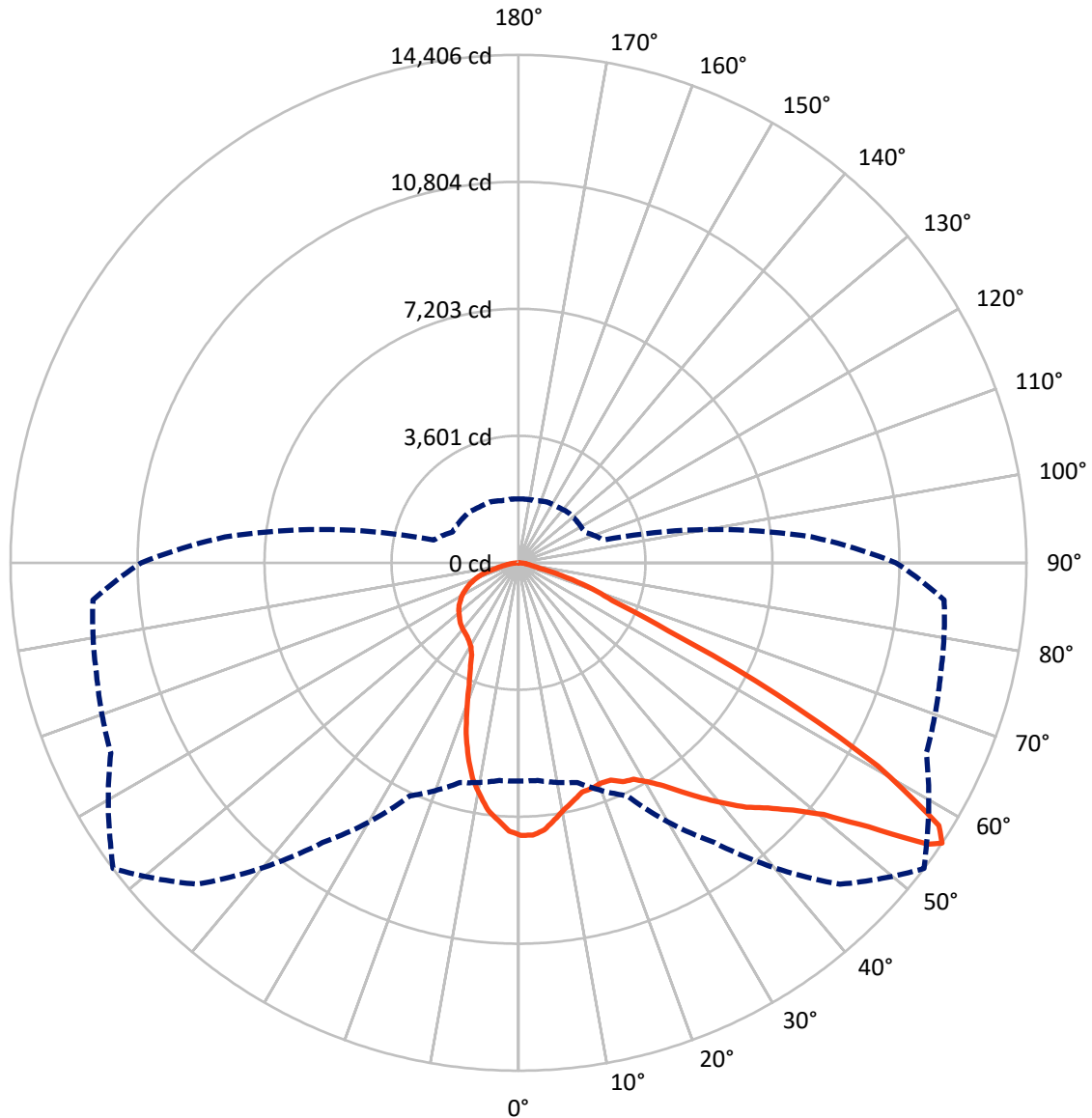
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.4 fc
 Type II - Short - N/A

REPORT NUMBER: P646940
CATALOG NUMBER: GALN-SA5C-835-U-SL2-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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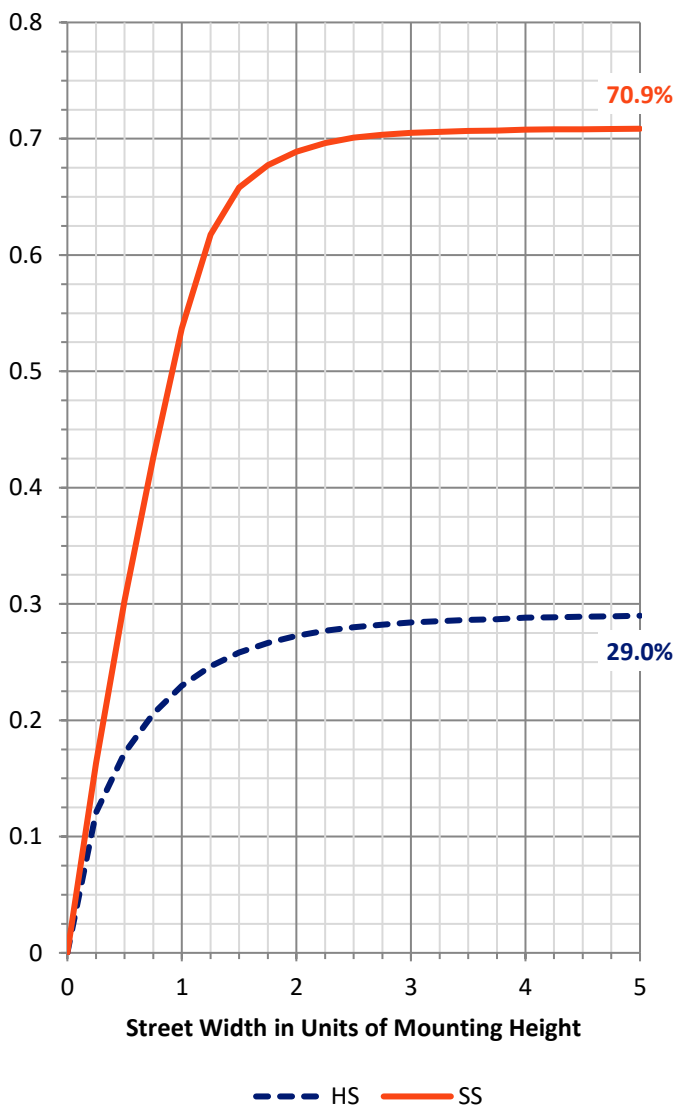
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6818.8	0.0	6818.8
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	16547.5	0.0	16547.5
	% Fixture	70.8	0.0	70.8
Total	Lumens	23366.3	0.0	23366.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	684.4	2.9
10°-20°	1709.3	7.3
20°-30°	2520.4	10.8
30°-40°	3601.2	15.4
40°-50°	4956.6	21.2
50°-60°	5857.4	25.1
60°-70°	3121.6	13.4
70°-80°	791.9	3.4
80°-90°	123.5	0.5
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°	23366.3	100.0
0°-180°	23366.3	100.0

Coefficient of Utilization



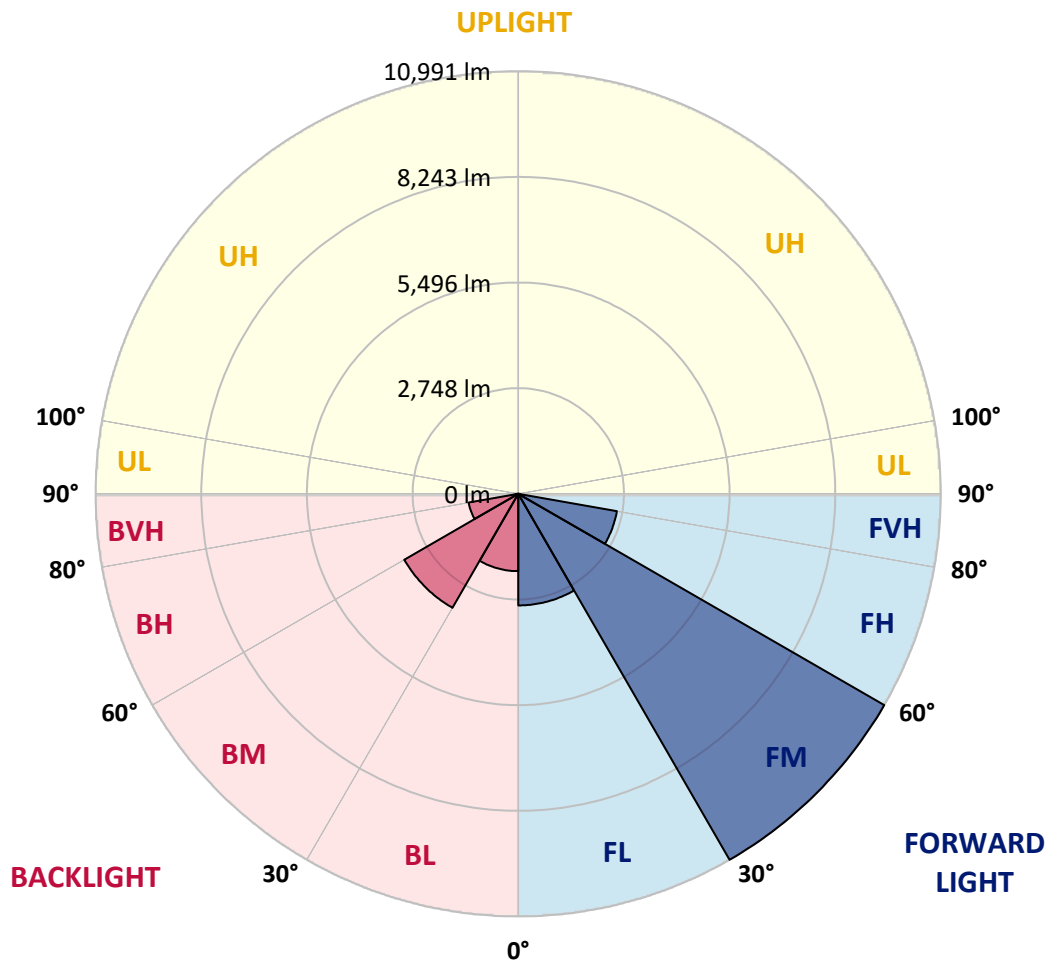
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 CATALOG NUMBER: GALN-SA5C-835-U-SL2-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2902.9	12.4			
FM (30°-60°)	10991.0	47.0			
FH (60°-80°)	2603.9	11.1			G2/5000
FVH (80°-90°)	49.6	0.2			G1/100
BL (0°-30°)	2011.1	8.6	B3/2500		
BM (30°-60°)	3424.2	14.7	B3/5000		
BH (60°-80°)	1309.6	5.6	B3/2500		G3/2500
BVH (80°-90°)	73.9	0.3			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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	7730.5	7730.5	7730.5	7730.5	7730.5	7730.5	7730.5	7730.5	7730.5	7730.5	7730.5
2.5°	7634.6	7568.6	7607.6	7592.6	7715.5	7751.5	7733.5	7748.5	7817.4	7784.4	7715.5
5°	7134.0	7226.9	7244.9	7289.9	7361.8	7502.7	7613.6	7643.6	7676.5	7829.4	7814.4
7.5°	6678.4	6741.3	6708.4	6840.2	6996.1	7223.9	7358.8	7382.8	7685.5	7769.5	7832.4
10°	6390.6	6327.7	6477.5	6513.5	6690.3	6951.2	7113.0	7211.9	7487.7	7820.4	7859.4
12.5°	6123.8	6102.9	6192.7	6294.7	6492.6	6762.3	6927.2	6966.1	7391.8	7742.5	7925.3
15°	5926.0	5902.0	5992.0	6066.9	6297.7	6537.5	6747.3	6858.2	7286.8	7697.5	7868.4
17.5°	5770.2	5767.1	5818.1	5953.0	6189.8	6390.6	6729.3	6735.3	7232.9	7766.4	7916.4
20°	5761.2	5758.2	5767.1	5917.1	6132.8	6378.6	6672.4	6726.4	7232.9	7718.5	7919.3
22.5°	5836.1	5788.1	5842.0	5938.0	6093.9	6399.6	6693.4	6813.3	7406.8	7955.3	8054.3
25°	5956.0	5967.9	5997.9	6030.9	6120.9	6447.5	6879.2	6978.1	7610.6	8159.1	8240.1
27.5°	6174.8	6168.8	6180.8	6198.8	6276.7	6492.6	6954.1	7208.9	8036.2	8521.9	8440.9
30°	6495.5	6474.5	6522.5	6585.4	6513.5	6636.4	7202.9	7394.8	8431.9	8887.5	8665.7
32.5°	6786.3	6864.2	6954.1	6981.1	6894.2	6918.2	7532.6	7727.5	8761.6	9337.1	8941.5
35°	7148.9	7211.9	7331.9	7415.7	7400.8	7328.8	7982.3	8240.1	9238.2	9666.8	9232.2
37.5°	7502.7	7577.6	7775.4	8024.3	7886.4	7853.4	8461.9	8674.7	9385.1	9843.7	9445.0
40°	8072.2	8069.2	8410.9	8539.8	8662.7	8605.7	8959.5	9031.4	9463.0	9804.7	9451.0
42.5°	8740.6	8698.7	9046.4	9247.2	9406.1	9412.1	9478.0	9454.0	9499.0	9606.9	9388.1
45°	9376.1	9466.0	9816.7	10176.4	10335.3	10353.3	9915.7	9870.7	9561.9	9549.9	9268.2
47.5°	10152.5	10173.4	10461.2	10934.8	11303.5	11177.6	10482.2	10383.3	9837.7	9930.6	9469.1
50°	10197.4	10353.3	10611.1	11168.6	12301.6	12268.7	11216.6	11030.7	10281.3	10470.2	10029.5
52.5°	9256.2	9220.2	9526.0	10437.2	12226.7	13353.8	12433.5	11989.9	11234.6	11090.6	10937.8
55°	7053.0	7137.0	7406.8	8327.0	10617.1	13368.7	14091.1	13728.4	12253.7	12007.9	11831.1
56°	6186.8	6198.8	6453.6	7292.9	9687.8	12892.2	14405.9	14112.1	12760.2	12385.6	12115.8
57.5°	5128.7	5059.7	5191.6	5650.2	8177.1	11885.0	14061.2	14348.9	13353.8	12793.2	12418.5
60°	4037.6	4022.6	3968.6	4052.6	5167.6	8953.4	11705.1	12352.6	13293.8	12409.5	11894.0
62.5°	3297.2	3222.3	3330.2	3450.1	3591.0	5554.3	8225.1	8605.7	10554.1	9906.7	8935.4
65°	2556.8	2520.9	2655.8	3045.4	3129.3	3528.0	4685.1	4978.8	6231.7	6120.9	5389.5
67.5°	1759.5	1765.5	1882.4	2475.9	2901.6	2865.6	2868.6	3021.4	3252.3	2415.9	2104.2
70°	1115.1	1112.1	1175.0	1594.7	2335.1	2359.0	2239.1	2194.1	2080.3	1258.9	1333.8
72.5°	716.4	695.4	728.4	881.3	1208.0	1396.8	1438.8	1465.8	1205.0	989.2	1073.1
75°	404.7	383.7	371.7	410.7	476.6	551.5	605.5	623.5	698.4	749.3	794.4
77.5°	122.9	110.9	134.9	179.9	236.8	317.7	386.6	398.6	470.6	530.6	575.5
80°	53.9	60.0	83.9	119.9	167.9	224.8	272.8	290.7	338.7	383.7	395.6
82.5°	33.0	35.9	56.9	81.0	116.9	158.9	194.8	200.8	248.8	284.8	293.8
85°	12.0	15.0	30.0	48.0	74.9	101.9	101.9	110.9	101.9	101.9	110.9
87.5°	0.0	0.0	3.0	6.0	6.0	9.0	12.0	12.0	15.0	18.0	21.0
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°	7730.5	7730.5	7730.5	7730.5	7730.5	7730.5	7730.5	7730.5	7730.5	7730.5	7730.5
2.5°	7751.5	7736.5	7712.5	7625.6	7616.6	7589.6	7439.8	7415.7	7439.8	7367.8	7373.8
5°	7736.5	7781.5	7601.6	7514.7	7352.8	7235.9	7101.0	7032.0	6909.2	6831.3	6918.2
7.5°	7802.4	7784.4	7559.6	7370.8	7128.0	6831.3	6594.4	6459.6	6243.7	6183.8	6228.8
10°	7778.5	7682.6	7418.8	7169.9	6711.3	6450.6	6066.9	5695.2	5491.3	5386.5	5371.5
12.5°	7745.5	7718.5	7277.9	6849.2	6366.7	5818.1	5278.5	4927.8	4595.1	4451.3	4472.3
15°	7784.4	7556.7	7014.1	6471.6	5830.1	5110.7	4529.2	4076.5	3845.8	3752.8	3752.8
17.5°	7766.4	7478.7	6888.2	6048.9	5236.6	4385.3	3746.8	3474.1	3378.2	3378.2	3405.1
20°	7775.4	7529.6	6633.4	5626.2	4535.2	3692.9	3228.3	3129.3	3171.3	3186.3	3201.3
22.5°	7826.4	7361.8	6384.7	5161.6	3884.7	3159.3	2931.6	2934.5	3009.5	3090.4	3075.4
25°	7889.4	7295.8	6081.9	4700.0	3387.2	2898.6	2826.6	2817.6	2874.5	2916.5	2922.5
27.5°	7835.4	7182.0	5773.1	4124.5	2979.5	2724.7	2709.7	2715.7	2733.7	2817.6	2790.6
30°	8012.3	7215.0	5386.5	3642.0	2754.7	2667.8	2649.8	2640.7	2667.8	2691.7	2670.7
32.5°	8231.1	7098.1	5098.7	3177.3	2643.8	2625.8	2589.9	2577.8	2592.8	2568.9	2580.8
35°	8327.0	7077.1	4724.0	2844.6	2556.8	2541.9	2520.9	2517.9	2520.9	2499.9	2481.9
37.5°	8380.9	7176.0	4295.4	2691.7	2502.9	2517.9	2469.9	2463.9	2410.0	2422.0	2431.0
40°	8473.9	7023.1	3947.7	2544.8	2469.9	2439.9	2398.0	2389.0	2353.0	2332.0	2353.0
42.5°	8339.0	6978.1	3605.9	2481.9	2422.0	2389.0	2359.0	2308.0	2296.1	2278.1	2266.1
45°	8231.1	6720.3	3300.2	2404.0	2365.0	2347.0	2290.0	2236.1	2191.1	2209.2	2182.1
47.5°	8312.0	6630.4	2997.5	2338.0	2287.1	2266.1	2209.2	2167.2	2122.2	2101.3	2095.2
50°	8635.7	6798.2	2742.7	2290.0	2221.1	2209.2	2134.2	2086.2	2044.3	2029.3	2035.3
52.5°	9409.1	7256.9	2568.9	2191.1	2158.2	2104.2	2062.3	2002.3	1975.4	1927.4	1957.3
55°	10389.2	8003.3	2523.8	2098.2	2080.3	2032.3	1975.4	1930.4	1879.4	1840.4	1831.4
56°	10704.0	8359.9	2487.9	2062.3	2032.3	2005.3	1930.4	1903.4	1822.4	1813.5	1807.5
57.5°	10958.8	8674.7	2493.9	1993.3	1963.4	1939.3	1894.4	1828.5	1774.5	1741.5	1756.5
60°	10383.3	8120.2	2380.0	1888.4	1882.4	1837.5	1774.5	1744.5	1678.6	1639.6	1630.6
62.5°	7718.5	5512.3	1930.4	1753.5	1750.6	1702.6	1630.6	1597.6	1585.7	1531.7	1531.7
65°	4445.2	3456.1	1669.6	1642.6	1618.6	1570.7	1498.7	1471.7	1441.8	1423.8	1408.9
67.5°	1897.4	1792.5	1516.7	1513.7	1486.8	1426.8	1354.8	1312.9	1273.9	1237.9	1255.9
70°	1375.8	1396.8	1369.9	1354.8	1321.9	1246.9	1184.0	1133.1	1073.1	1049.1	1067.1
72.5°	1091.1	1136.1	1175.0	1178.0	1139.0	1052.1	983.1	914.2	848.3	815.3	830.3
75°	827.3	857.3	896.2	905.2	848.3	788.3	722.4	650.4	599.5	560.5	566.5
77.5°	596.5	590.5	626.5	620.4	593.5	551.5	491.6	425.6	368.7	332.7	335.8
80°	407.6	416.6	437.6	434.6	401.7	374.7	329.7	275.8	233.8	203.8	197.9
82.5°	284.8	299.7	317.7	302.7	275.8	248.8	215.8	176.9	143.9	119.9	113.9
85°	101.9	116.9	134.9	143.9	152.8	146.9	122.9	98.9	72.0	60.0	56.9
87.5°	21.0	24.0	27.0	27.0	27.0	24.0	21.0	21.0	18.0	9.0	9.0
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)