

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: P648095

Luminaire Tested: **GALN-SA8A-835-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648095
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-SA8A-835-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3500K, 615mA 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: 24507.9 lumens
Efficiency: N/A
Efficacy: 100.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

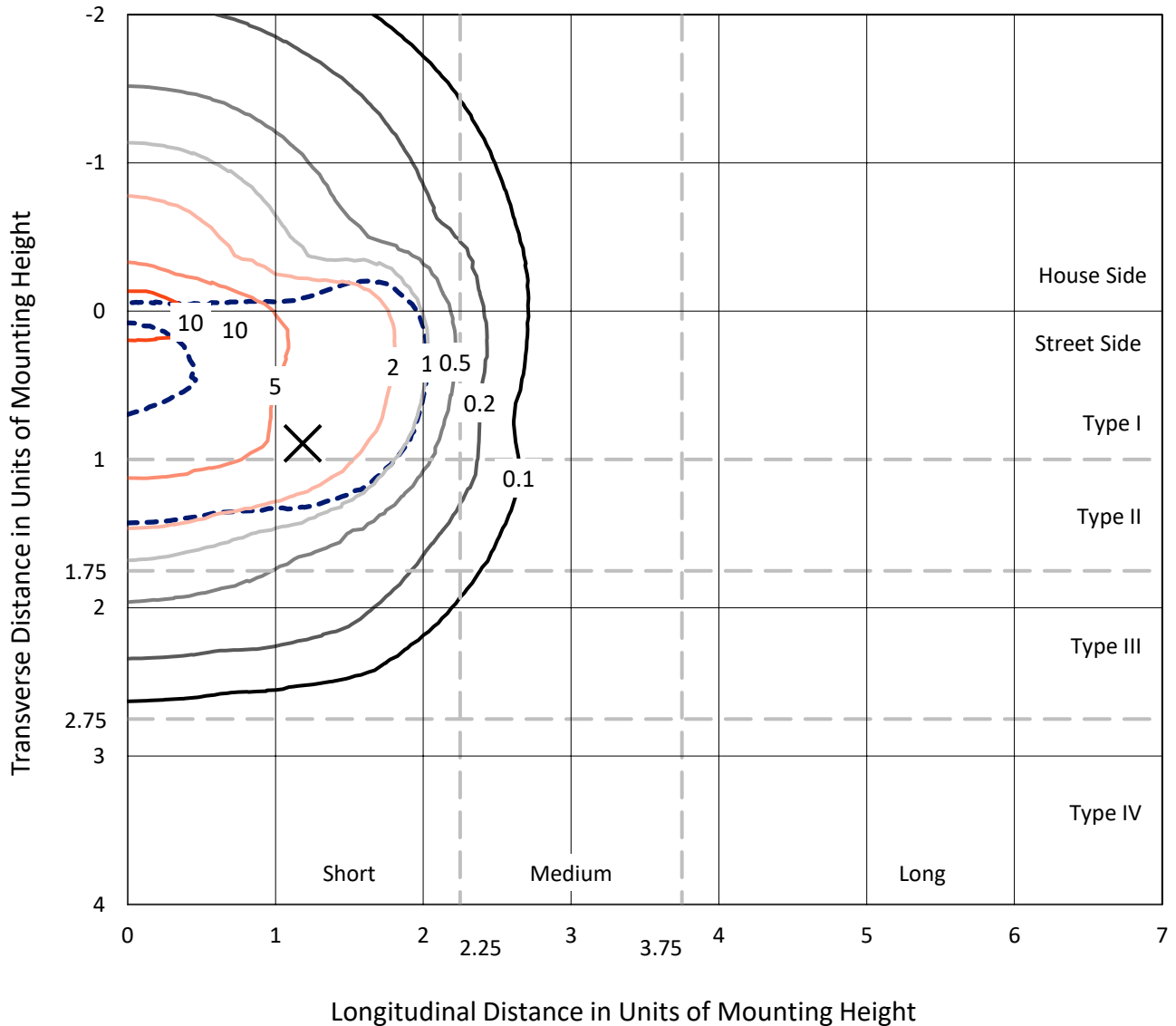
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P648095
 CATALOG NUMBER: GALN-SA8A-835-U-SL2-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

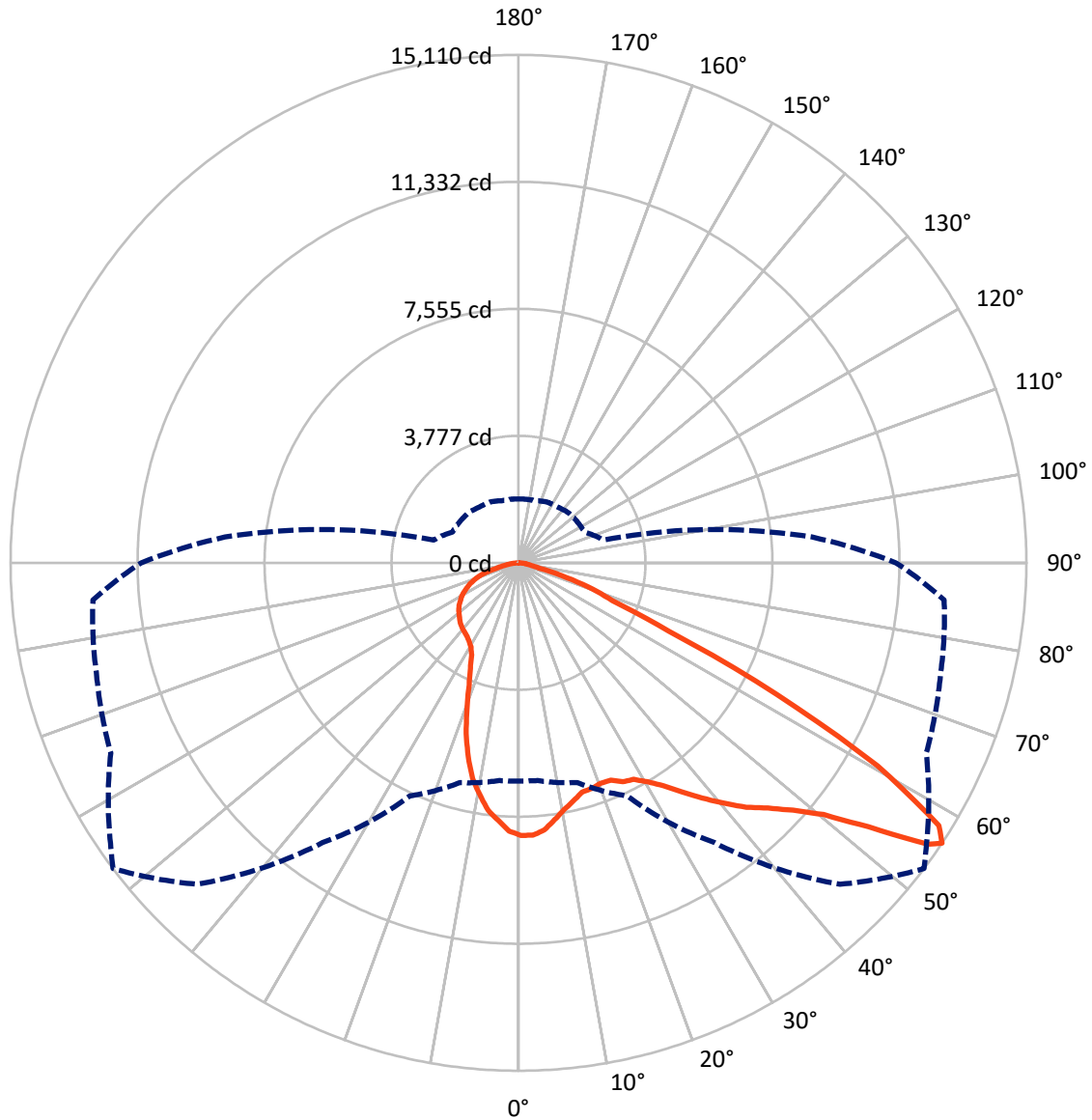
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13 fc
 Type II - Short - N/A

REPORT NUMBER: P648095
CATALOG NUMBER: GALN-SA8A-835-U-SL2-GRSWH

Luminous Intensity Polar Plot



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

REPORT NUMBER: P648095
 CATALOG NUMBER: GALN-SA8A-835-U-SL2-GRSWH

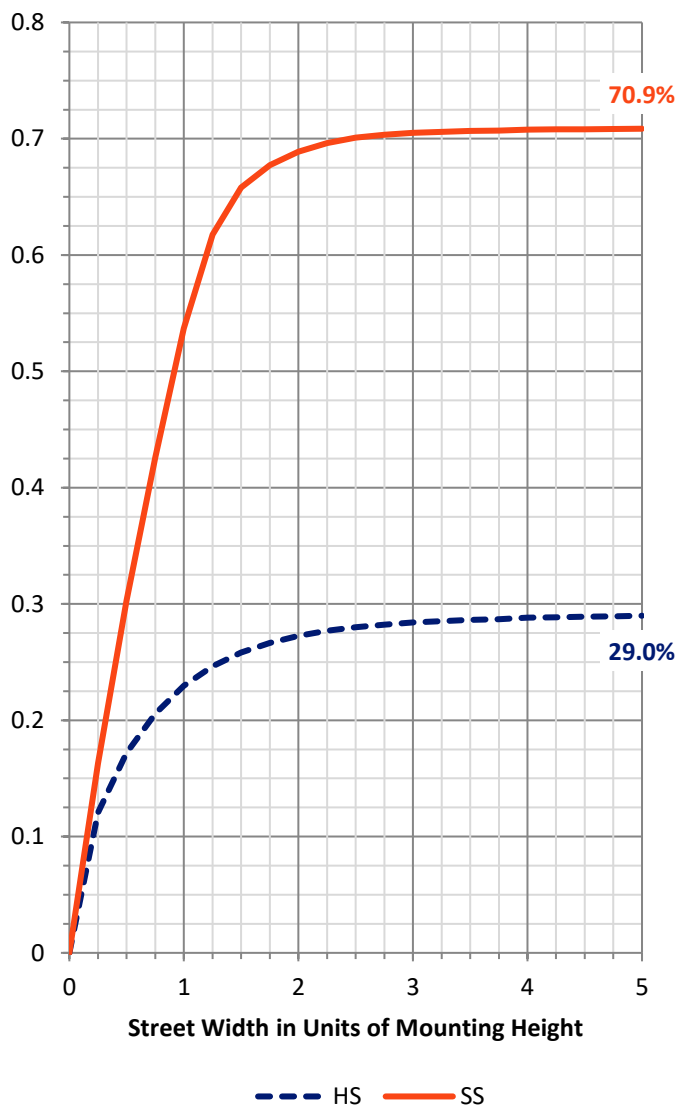
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7151.9	0.0	7151.9
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	17356.0	0.0	17356.0
	% Fixture	70.8	0.0	70.8
Total	Lumens	24507.9	0.0	24507.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	717.8	2.9
10°-20°	1792.8	7.3
20°-30°	2643.6	10.8
30°-40°	3777.2	15.4
40°-50°	5198.8	21.2
50°-60°	6143.6	25.1
60°-70°	3274.1	13.4
70°-80°	830.6	3.4
80°-90°	129.5	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°	24507.9	100.0
0°-180°	24507.9	100.0

Coefficient of Utilization

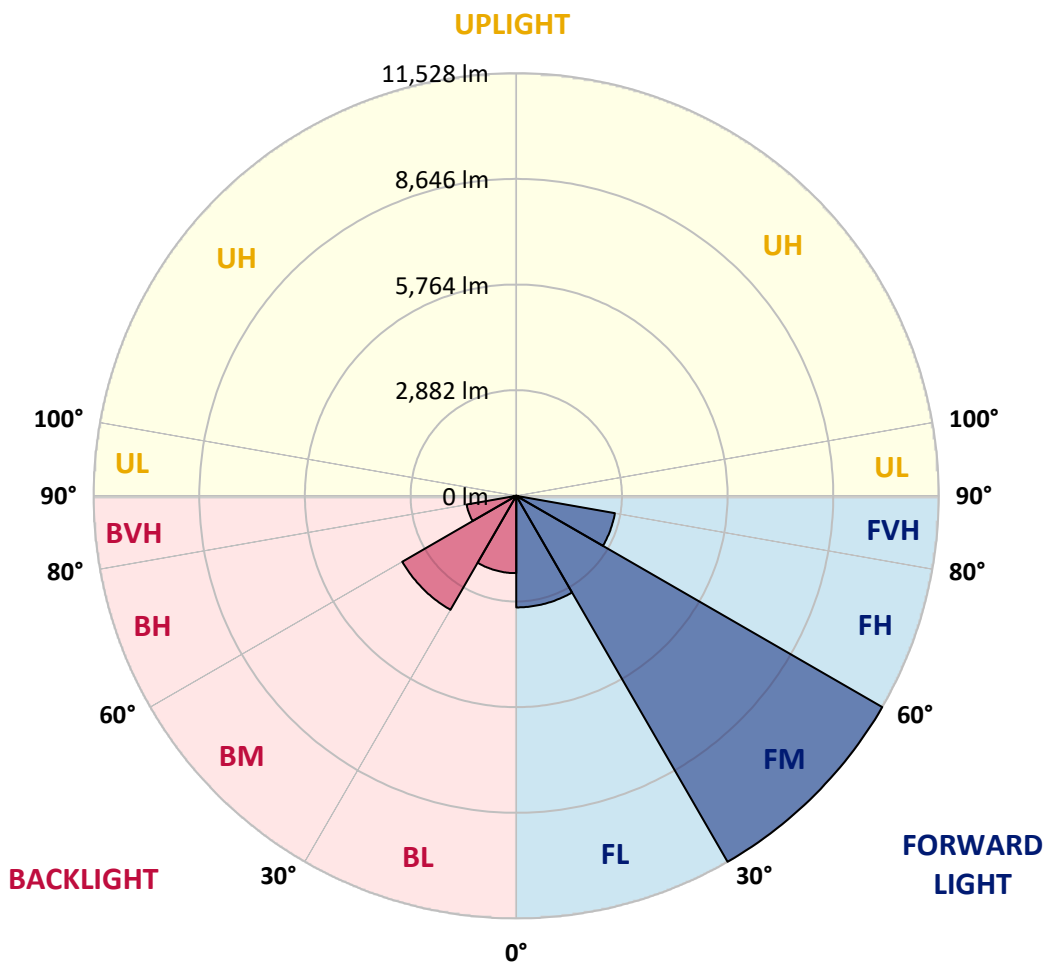


REPORT NUMBER: P648095
 CATALOG NUMBER: GALN-SA8A-835-U-SL2-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3044.8	12.4			
FM (30°-60°)	11528.0	47.0			
FH (60°-80°)	2731.1	11.1			G2/5000
FVH (80°-90°)	52.1	0.2			G1/100
BL (0°-30°)	2109.4	8.6	B3/2500		
BM (30°-60°)	3591.5	14.7	B3/5000		
BH (60°-80°)	1373.6	5.6	B3/2500		G3/2500
BVH (80°-90°)	77.5	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





REPORT NUMBER: P648095

CATALOG NUMBER: GALN-SA8A-835-U-SL2-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	8108.2	8108.2	8108.2	8108.2	8108.2	8108.2	8108.2	8108.2	8108.2	8108.2	8108.2
2.5°	8007.6	7938.4	7979.2	7963.6	8092.5	8130.2	8111.3	8127.1	8199.3	8164.7	8092.5
5°	7482.5	7580.0	7598.9	7646.0	7721.5	7869.2	7985.6	8017.0	8051.6	8211.9	8196.2
7.5°	7004.6	7070.6	7036.1	7174.5	7337.9	7576.9	7718.3	7743.5	8061.0	8149.1	8215.1
10°	6702.9	6636.8	6794.0	6831.8	7017.2	7290.7	7460.5	7564.2	7853.5	8202.5	8243.3
12.5°	6423.0	6401.0	6495.4	6602.3	6809.8	7092.7	7265.6	7306.5	7753.0	8120.7	8312.6
15°	6215.5	6190.4	6284.7	6363.3	6605.4	6856.9	7077.0	7193.3	7642.9	8073.6	8252.8
17.5°	6052.0	6048.9	6102.4	6243.8	6492.2	6702.9	7058.1	7064.4	7586.3	8145.9	8303.1
20°	6042.6	6039.5	6048.9	6206.1	6432.5	6690.3	6998.4	7055.0	7586.3	8095.6	8306.2
22.5°	6121.2	6070.9	6127.5	6228.1	6391.6	6712.3	7020.4	7146.1	7768.6	8344.0	8447.7
25°	6247.0	6259.5	6291.0	6325.5	6419.9	6762.6	7215.3	7319.1	7982.5	8557.8	8642.7
27.5°	6476.5	6470.2	6482.8	6501.6	6583.4	6809.8	7293.9	7561.1	8428.8	8938.2	8853.3
30°	6812.9	6790.9	6841.1	6907.2	6831.8	6960.6	7554.9	7756.1	8843.8	9321.8	9089.1
32.5°	7117.9	7199.6	7293.9	7322.2	7231.0	7256.1	7900.7	8105.1	9189.7	9793.3	9378.3
35°	7498.2	7564.2	7690.0	7778.1	7762.3	7686.9	8372.3	8642.7	9689.5	10139.1	9683.3
37.5°	7869.2	7947.8	8155.3	8416.3	8271.7	8237.1	8875.3	9098.5	9843.6	10324.6	9906.5
40°	8466.6	8463.4	8821.8	8957.1	9085.9	9026.2	9397.2	9472.7	9925.4	10283.8	9912.8
42.5°	9167.7	9123.7	9488.4	9699.0	9865.6	9871.9	9941.1	9915.9	9963.1	10076.3	9846.8
45°	9834.2	9928.5	10296.4	10673.6	10840.2	10859.1	10400.1	10352.9	10029.1	10016.5	9721.0
47.5°	10648.5	10670.5	10972.3	11469.1	11855.7	11723.7	10994.3	10890.6	10318.4	10415.9	9931.7
50°	10695.6	10859.1	11129.5	11714.2	12902.7	12868.1	11764.6	11569.6	10783.6	10981.7	10519.6
52.5°	9708.4	9670.7	9991.4	10947.1	12824.1	14006.1	13041.0	12575.7	11783.4	11632.5	11472.2
55°	7397.6	7485.7	7768.6	8733.8	11135.7	14021.9	14779.6	14399.1	12852.4	12594.6	12409.1
56°	6489.0	6501.6	6768.9	7649.2	10161.1	13522.0	15109.7	14801.6	13383.7	12990.7	12707.8
57.5°	5379.3	5306.9	5445.3	5926.3	8576.6	12465.7	14748.1	15050.0	14006.1	13418.3	13025.3
60°	4234.9	4219.1	4162.6	4250.6	5420.2	9390.9	12277.0	12956.1	13943.3	13015.8	12475.1
62.5°	3458.4	3379.7	3492.9	3618.6	3766.4	5825.7	8626.9	9026.2	11069.7	10390.6	9372.0
65°	2681.8	2644.0	2785.5	3194.2	3282.3	3700.4	4914.0	5222.1	6536.2	6419.9	5652.8
67.5°	1845.5	1851.8	1974.4	2596.9	3043.3	3005.6	3008.8	3169.1	3411.1	2534.0	2207.0
70°	1169.6	1166.4	1232.4	1672.6	2449.1	2474.3	2348.5	2301.3	2181.9	1320.5	1399.1
72.5°	751.4	729.4	764.0	924.3	1267.0	1465.1	1509.1	1537.3	1263.8	1037.5	1125.6
75°	424.5	402.4	389.9	430.7	499.9	578.5	635.1	654.0	732.5	786.0	833.1
77.5°	128.9	116.4	141.5	188.6	248.4	333.2	405.6	418.1	493.6	556.5	603.6
80°	56.6	62.9	88.0	125.7	176.1	235.8	286.1	305.0	355.2	402.4	415.0
82.5°	34.6	37.7	59.7	84.9	122.6	166.6	204.4	210.6	261.0	298.6	308.1
85°	12.6	15.7	31.5	50.3	78.6	106.9	106.9	116.4	106.9	106.9	116.4
87.5°	0.0	0.0	3.1	6.3	6.3	9.4	12.6	12.6	15.7	18.9	22.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P648095
 CATALOG NUMBER: GALN-SA8A-835-U-SL2-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8108.2	8108.2	8108.2	8108.2	8108.2	8108.2	8108.2	8108.2	8108.2	8108.2	8108.2
2.5°	8130.2	8114.5	8089.3	7998.1	7988.7	7960.4	7803.2	7778.1	7803.2	7727.7	7734.1
5°	8114.5	8161.6	7973.0	7881.8	7712.1	7589.5	7448.0	7375.6	7246.7	7165.0	7256.1
7.5°	8183.6	8164.7	7929.0	7730.9	7476.2	7165.0	6916.6	6775.1	6548.8	6485.9	6533.0
10°	8158.5	8057.9	7781.2	7520.2	7039.2	6765.7	6363.3	5973.4	5759.7	5649.7	5633.9
12.5°	8123.9	8095.6	7633.5	7183.9	6677.7	6102.4	5536.4	5168.6	4819.6	4668.7	4690.7
15°	8164.7	7925.8	7356.8	6787.7	6114.9	5360.4	4750.5	4275.7	4033.6	3936.2	3936.2
17.5°	8145.9	7844.1	7224.7	6344.4	5492.4	4599.6	3929.9	3643.8	3543.2	3543.2	3571.5
20°	8155.3	7897.6	6957.5	5901.2	4756.7	3873.3	3386.0	3282.3	3326.3	3342.0	3357.7
22.5°	8208.8	7721.5	6696.5	5413.8	4074.5	3313.7	3074.8	3077.9	3156.5	3241.4	3225.6
25°	8274.8	7652.3	6379.0	4929.7	3552.6	3040.2	2964.8	2955.3	3015.0	3059.0	3065.3
27.5°	8218.2	7532.9	6055.2	4326.1	3125.0	2857.8	2842.1	2848.4	2867.3	2955.3	2927.0
30°	8403.7	7567.5	5649.7	3819.9	2889.3	2798.1	2779.3	2769.8	2798.1	2823.3	2801.3
32.5°	8633.2	7444.8	5347.8	3332.5	2772.9	2754.0	2716.4	2703.8	2719.5	2694.4	2706.9
35°	8733.8	7422.8	4954.8	2983.6	2681.8	2666.0	2644.0	2640.9	2644.0	2622.0	2603.2
37.5°	8790.4	7526.6	4505.2	2823.3	2625.2	2640.9	2590.6	2584.3	2527.7	2540.3	2549.8
40°	8887.9	7366.2	4140.6	2669.2	2590.6	2559.2	2515.2	2505.7	2468.0	2445.9	2468.0
42.5°	8746.4	7319.1	3782.1	2603.2	2540.3	2505.7	2474.3	2420.8	2408.3	2389.4	2376.8
45°	8633.2	7048.6	3461.5	2521.4	2480.5	2461.7	2401.9	2345.4	2298.2	2317.1	2288.8
47.5°	8718.1	6954.4	3143.9	2452.3	2398.8	2376.8	2317.1	2273.0	2225.9	2203.9	2197.6
50°	9057.7	7130.4	2876.7	2401.9	2329.7	2317.1	2238.4	2188.2	2144.2	2128.4	2134.7
52.5°	9868.8	7611.5	2694.4	2298.2	2263.7	2207.0	2163.0	2100.2	2071.8	2021.5	2052.9
55°	10896.9	8394.3	2647.2	2200.8	2181.9	2131.6	2071.8	2024.7	1971.2	1930.4	1920.9
56°	11227.0	8768.4	2609.4	2163.0	2131.6	2103.3	2024.7	1996.4	1911.5	1902.1	1895.8
57.5°	11494.2	9098.5	2615.8	2090.7	2059.3	2034.2	1986.9	1917.8	1861.2	1826.6	1842.3
60°	10890.6	8516.9	2496.3	1980.7	1974.4	1927.2	1861.2	1829.8	1760.6	1719.7	1710.3
62.5°	8095.6	5781.7	2024.7	1839.2	1836.1	1785.7	1710.3	1675.7	1663.2	1606.6	1606.6
65°	4662.5	3625.0	1751.2	1722.8	1697.7	1647.4	1572.0	1543.7	1512.2	1493.3	1477.7
67.5°	1990.1	1880.1	1590.8	1587.7	1559.4	1496.5	1421.1	1377.1	1336.2	1298.4	1317.3
70°	1443.1	1465.1	1436.8	1421.1	1386.5	1307.8	1241.8	1188.4	1125.6	1100.3	1119.2
72.5°	1144.4	1191.6	1232.4	1235.6	1194.7	1103.5	1031.2	958.9	889.7	855.1	870.9
75°	867.7	899.2	940.1	949.5	889.7	826.8	757.7	682.2	628.7	587.9	594.2
77.5°	625.6	619.4	657.1	650.8	622.5	578.5	515.6	446.5	386.7	349.0	352.1
80°	427.6	437.0	459.0	455.9	421.3	393.0	345.9	289.2	245.2	213.8	207.5
82.5°	298.6	314.4	333.2	317.5	289.2	261.0	226.4	185.5	150.9	125.7	119.5
85°	106.9	122.6	141.5	150.9	160.4	154.0	128.9	103.7	75.5	62.9	59.7
87.5°	22.0	25.1	28.3	28.3	28.3	25.1	22.0	22.0	18.9	9.4	9.4
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)