

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: P647356

Luminaire Tested: **GALN-SA3D-835-U-T3R-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647356  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3D-835-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14157.5 lumens  
Efficiency: N/A  
Efficacy: 76.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G3

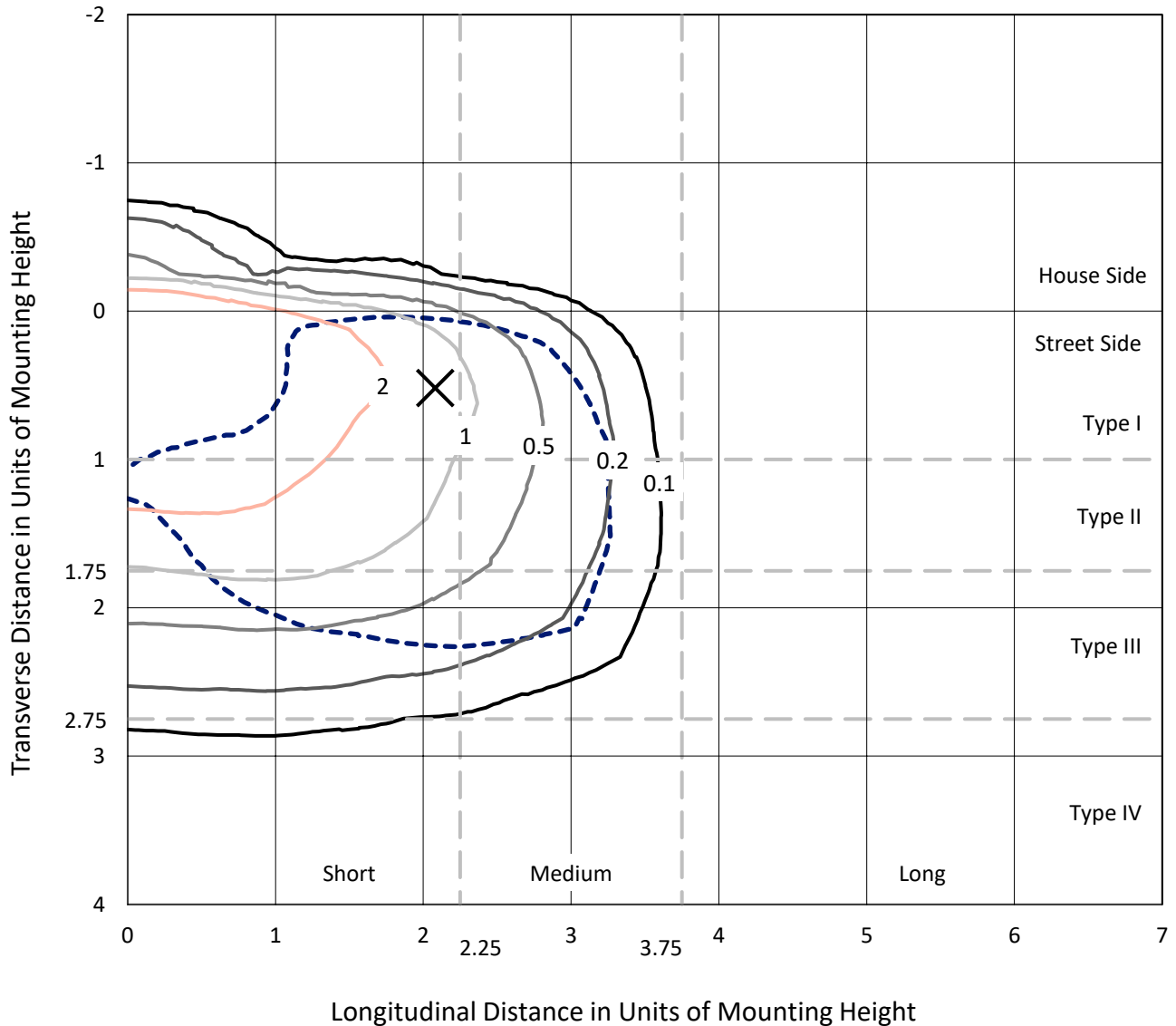
Input Watts (W): 184  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P647356  
 CATALOG NUMBER: GALN-SA3D-835-U-T3R-HSS

### Iso-Footcandle Lines of Horizontal Illumination

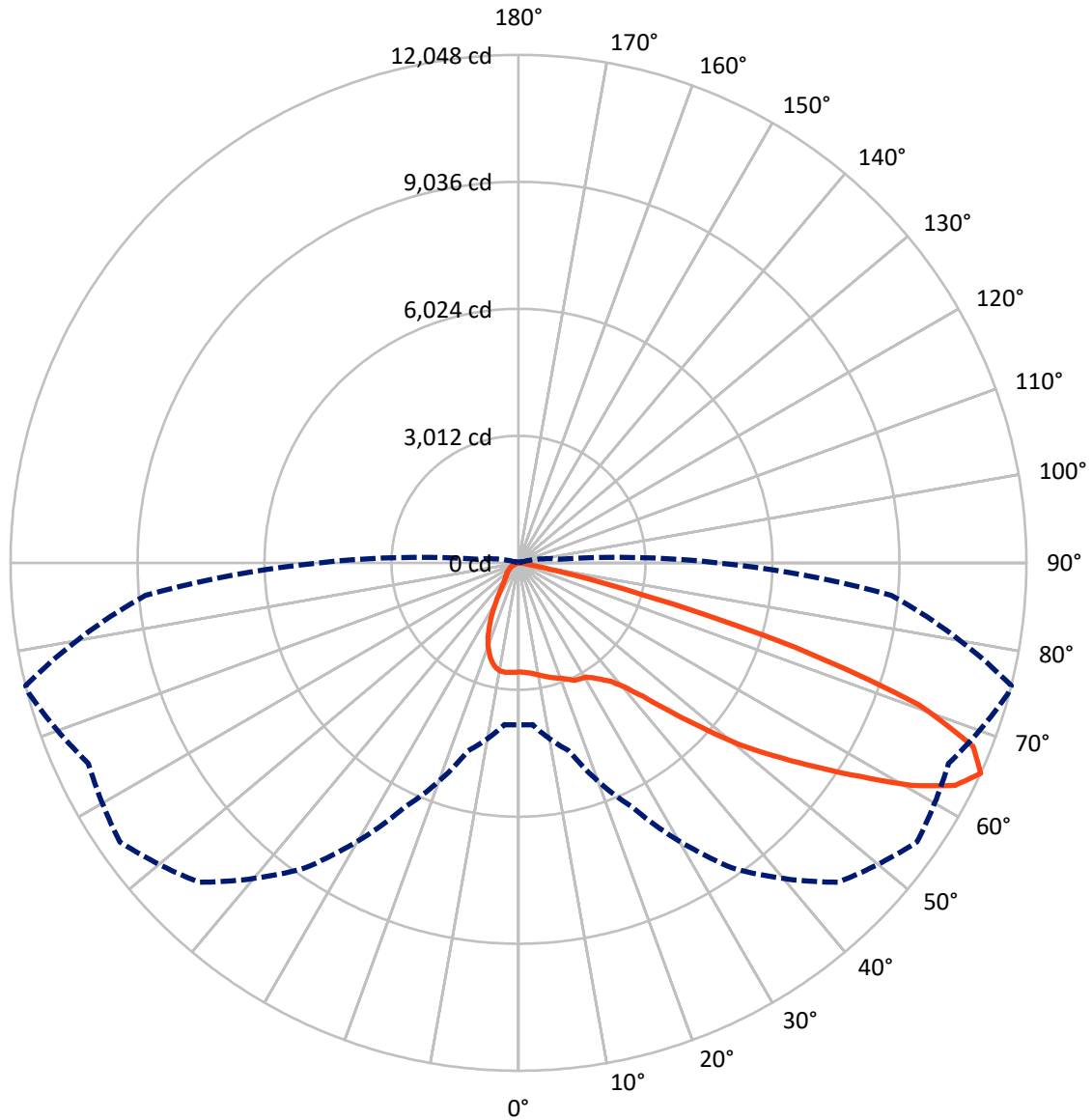
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc  
 Type III - Short - N/A

REPORT NUMBER: P647356  
CATALOG NUMBER: GALN-SA3D-835-U-T3R-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P647356  
 CATALOG NUMBER: GALN-SA3D-835-U-T3R-HSS

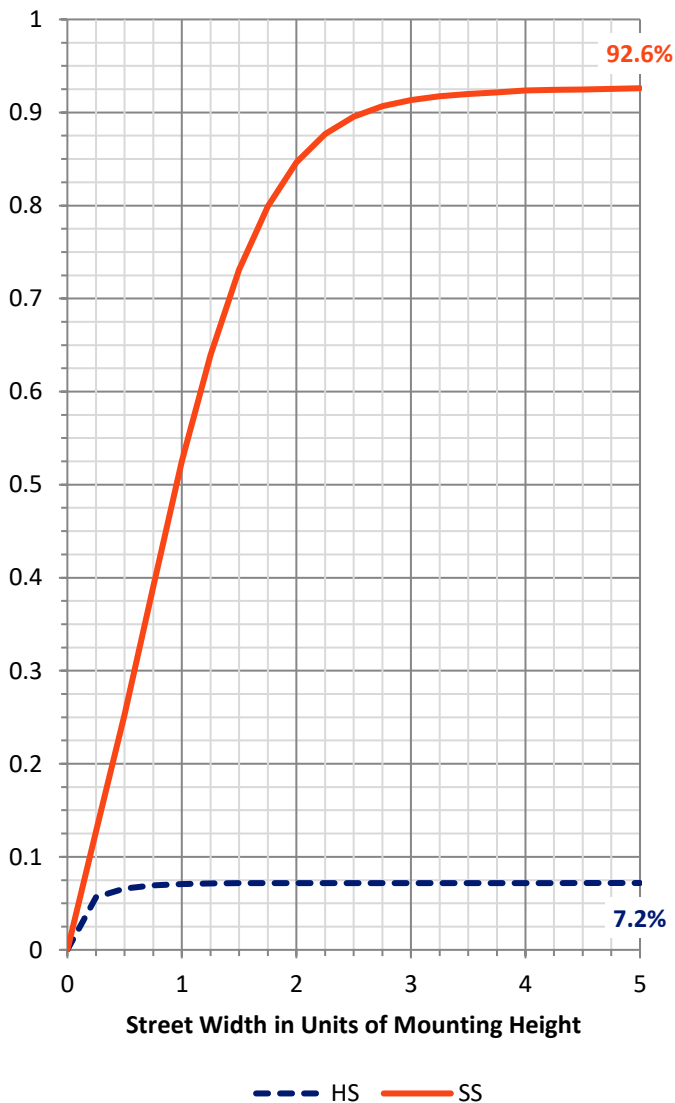
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1022.5	0.0	1022.5
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	13135.0	0.0	13135.0
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	14157.5	0.0	14157.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	213.3	1.5
10°-20°	475.0	3.4
20°-30°	765.5	5.4
30°-40°	1330.9	9.4
40°-50°	2199.3	15.5
50°-60°	3397.5	24.0
60°-70°	4148.8	29.3
70°-80°	1574.6	11.1
80°-90°	52.6	0.4
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°	14157.5	100.0
0°-180°	14157.5	100.0

**Coefficient of Utilization**



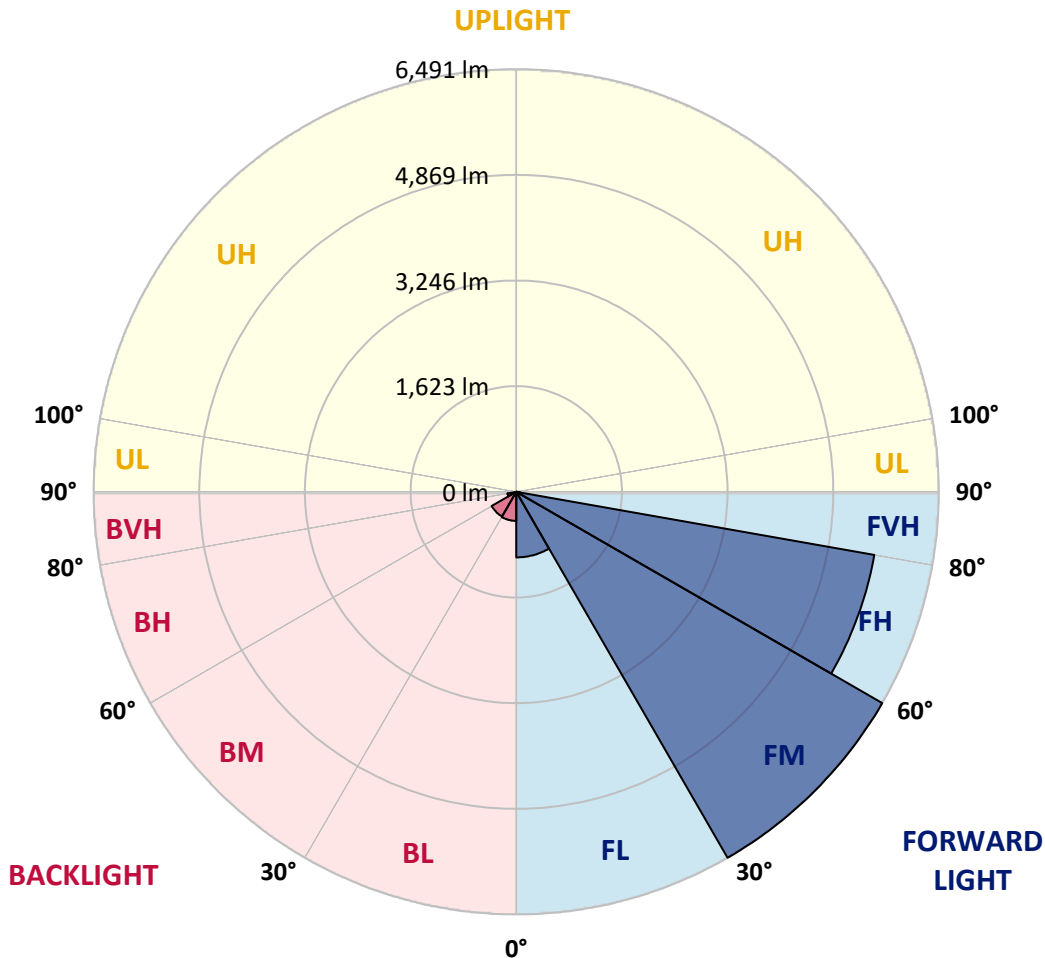
REPORT NUMBER: P647356  
 CATALOG NUMBER: GALN-SA3D-835-U-T3R-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1007.1	7.1			
FM (30°-60°)	6491.4	45.9			
FH (60°-80°)	5584.6	39.4			G3/7500
FVH (80°-90°)	51.8	0.4			G1/100
BL (0°-30°)	446.7	3.2	B1/500		
BM (30°-60°)	436.3	3.1	B1/1000		
BH (60°-80°)	138.7	1.0	B1/500		G1/500
BVH (80°-90°)	0.7	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-G3**

Type III Short





REPORT NUMBER: P647356

CATALOG NUMBER: GALN-SA3D-835-U-T3R-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2589.9	2589.9	2589.9	2589.9	2589.9	2589.9	2589.9	2589.9	2589.9	2589.9	2589.9
2.5°	2474.9	2475.9	2481.9	2496.9	2519.9	2538.9	2554.9	2580.8	2598.9	2600.8	2606.8
5°	2304.0	2292.0	2304.0	2343.0	2378.0	2430.9	2495.9	2560.9	2618.8	2622.8	2650.8
7.5°	2112.1	2122.1	2141.0	2181.0	2247.0	2327.9	2421.9	2537.9	2647.8	2657.8	2712.8
10°	1917.2	1939.1	1970.1	2031.1	2123.0	2228.0	2356.0	2521.9	2693.8	2707.8	2802.7
12.5°	1737.2	1747.2	1785.2	1867.1	1981.1	2129.1	2305.9	2512.9	2744.8	2761.8	2898.7
15°	1599.3	1612.3	1645.2	1719.2	1846.2	2036.1	2265.0	2509.9	2794.8	2818.7	2994.7
17.5°	1573.3	1581.3	1595.3	1645.2	1756.2	1962.1	2228.0	2508.9	2842.8	2871.7	3083.6
20°	1680.2	1673.3	1659.3	1654.2	1715.2	1905.1	2201.0	2516.9	2888.7	2921.7	3177.6
22.5°	1948.1	1957.1	1875.1	1778.2	1758.2	1896.2	2197.0	2554.9	2961.7	3000.7	3282.6
25°	2516.9	2447.9	2320.0	2088.1	1913.2	1951.2	2242.0	2644.8	3046.7	3089.6	3377.5
27.5°	3145.6	3124.6	2925.7	2543.9	2218.0	2067.0	2322.0	2713.8	3074.6	3118.6	3431.5
30°	3763.3	3788.3	3560.4	3138.6	2660.8	2282.0	2396.9	2739.8	3099.6	3145.6	3500.4
32.5°	4336.1	4366.1	4166.1	3748.3	3182.6	2653.8	2525.9	2840.7	3204.6	3251.6	3615.4
35°	4786.9	4790.9	4639.9	4307.0	3752.3	3105.6	2804.8	3017.7	3346.5	3401.5	3737.3
37.5°	5200.7	5194.7	5017.8	4730.9	4227.1	3554.4	3155.6	3221.6	3508.5	3565.4	3913.3
40°	5507.5	5511.5	5454.5	5184.7	4669.9	3969.3	3433.5	3412.5	3780.3	3869.3	4169.2
42.5°	5712.5	5749.4	5777.4	5640.5	5226.7	4480.0	3860.3	3821.3	4252.1	4326.1	4531.0
45°	5878.4	5944.4	6084.3	6077.3	5761.4	5106.7	4446.0	4366.1	4920.8	4999.8	4991.8
47.5°	5999.3	6066.3	6298.2	6438.1	6264.2	5714.4	5182.7	5113.7	5719.4	5805.4	5500.6
50°	6061.3	6141.2	6437.1	6708.0	6657.1	6300.2	6022.3	6026.3	6684.0	6767.0	6090.3
52.5°	5916.3	6020.3	6511.1	6998.8	7097.8	6861.0	6809.0	6940.9	7542.6	7613.6	6623.1
55°	5453.6	5584.5	6410.1	7246.7	7608.6	7522.7	7702.5	7903.4	8481.2	8527.2	7169.8
57.5°	5160.7	5299.7	6112.3	7457.7	8222.4	8354.3	8639.2	8786.0	9449.8	9566.7	7797.5
60°	4913.8	5022.8	5867.4	7502.6	8846.0	9371.8	9648.7	9800.7	10645.3	10721.2	8488.2
62.5°	4503.0	4627.9	5453.6	7188.8	9159.9	10186.4	10760.2	10692.3	11569.8	11622.9	8912.0
65°	3842.3	3853.3	4613.9	6400.2	8836.1	10715.2	11540.9	11256.0	12011.6	12047.6	8879.1
67.5°	2867.7	2973.7	3549.4	5030.8	7463.6	10263.4	11793.7	11271.0	11732.8	11632.8	8174.4
70°	1847.2	1928.1	2405.9	3488.4	5381.6	8565.2	10955.1	10498.3	10297.4	10075.5	6691.0
72.5°	852.6	956.6	1429.4	1993.1	3191.6	6101.3	8893.0	8529.2	7411.7	6863.9	4253.1
75°	371.8	397.8	705.7	1051.6	1496.3	3226.6	5863.4	5294.6	3347.5	3057.6	1702.2
77.5°	226.9	243.9	369.8	563.8	587.7	1229.5	3158.6	2310.0	1034.5	912.6	461.8
80°	153.9	172.9	268.9	294.9	200.9	342.9	1185.5	616.7	208.9	199.9	99.0
82.5°	74.9	95.0	198.9	164.9	87.0	109.9	344.8	131.9	61.0	57.0	35.0
85°	11.0	19.0	112.0	108.0	39.0	26.0	61.0	33.0	21.0	20.0	16.0
87.5°	0.0	0.0	38.0	17.0	4.0	4.0	7.0	7.0	8.0	7.0	8.0
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: P647356

CATALOG NUMBER: GALN-SA3D-835-U-T3R-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2589.9	2589.9	2589.9	2589.9	2589.9	2589.9	2589.9	2589.9	2589.9	2589.9	2589.9
2.5°	2609.8	2614.8	2595.9	2568.9	2539.9	2510.8	2469.9	2432.9	2410.9	2423.9	2391.9
5°	2656.8	2652.8	2602.8	2520.9	2412.0	2281.0	2151.1	2040.1	2004.1	1950.1	1944.1
7.5°	2721.8	2710.8	2604.8	2416.9	2171.0	1925.2	1685.3	1526.3	1435.4	1358.4	1360.4
10°	2812.8	2780.7	2581.9	2234.0	1829.2	1458.3	1152.5	942.6	851.6	822.6	799.7
12.5°	2906.7	2844.7	2517.9	1987.1	1424.4	996.5	700.7	572.8	516.8	498.8	496.8
15°	2990.7	2892.7	2405.9	1690.3	1035.5	636.7	477.8	435.8	428.8	429.8	428.8
17.5°	3073.7	2930.7	2251.0	1375.4	703.7	456.8	410.8	400.8	403.8	407.8	406.8
20°	3142.6	2938.7	2053.1	1049.5	497.8	400.8	385.9	383.8	386.8	389.9	389.9
22.5°	3217.6	2944.7	1818.2	726.7	406.8	372.9	364.8	364.8	368.9	372.9	373.8
25°	3273.6	2911.7	1537.3	521.8	358.8	345.9	341.9	342.9	346.9	348.8	347.8
27.5°	3282.6	2818.7	1239.4	399.8	325.9	312.9	308.9	312.9	307.9	310.9	308.9
30°	3290.6	2700.8	937.6	336.8	295.9	275.9	269.9	263.9	259.9	254.9	253.8
32.5°	3315.5	2561.8	684.7	302.9	267.9	245.9	231.9	214.9	201.9	197.9	196.9
35°	3326.5	2395.0	502.8	275.9	242.9	218.9	193.9	169.9	151.0	143.9	148.9
37.5°	3368.5	2233.0	389.9	255.9	220.9	190.9	158.9	129.0	111.0	107.0	108.9
40°	3454.4	2057.1	326.8	238.9	201.9	164.9	125.9	96.9	85.0	81.0	79.9
42.5°	3592.4	1882.2	290.9	222.9	182.9	138.9	99.0	76.0	66.0	63.0	63.0
45°	3760.4	1714.2	265.9	205.9	162.9	112.0	78.0	61.0	55.0	53.0	53.0
47.5°	3981.2	1567.3	244.9	188.9	140.9	88.9	63.0	53.0	49.0	50.0	51.0
50°	4205.1	1458.3	221.9	169.9	116.0	73.0	53.9	47.0	46.0	47.0	47.0
52.5°	4374.1	1394.4	190.9	143.9	91.0	61.0	48.0	44.0	43.0	41.0	41.0
55°	4601.9	1380.4	151.9	117.0	72.0	51.0	43.0	40.0	37.0	35.0	34.0
57.5°	4894.8	1396.4	117.0	91.0	56.0	42.0	38.0	33.0	29.0	25.0	25.0
60°	5076.7	1360.4	91.0	70.0	41.0	34.0	29.0	24.0	19.0	16.0	15.0
62.5°	5018.8	1208.5	72.0	52.0	29.0	25.0	19.0	16.0	11.0	8.0	7.0
65°	4719.9	975.5	57.9	36.0	21.0	15.0	10.0	10.0	5.0	1.0	0.0
67.5°	4131.2	722.7	46.0	24.0	12.0	7.0	5.0	3.0	0.0	0.0	0.0
70°	3362.5	521.8	36.0	15.0	7.0	5.0	2.0	1.0	0.0	0.0	0.0
72.5°	2135.1	298.9	28.0	9.0	5.0	2.0	0.0	0.0	0.0	0.0	0.0
75°	825.6	117.0	19.0	6.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	233.9	55.0	11.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	61.0	24.0	6.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	29.0	10.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	17.0	4.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.0	1.0	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)