

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: P648016

Luminaire Tested: **GALN-SA6A-835-U-T3R-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648016  
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-SA6A-835-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 3500K, 615mA 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: 16624.7 lumens  
Efficiency: N/A  
Efficacy: 91.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3

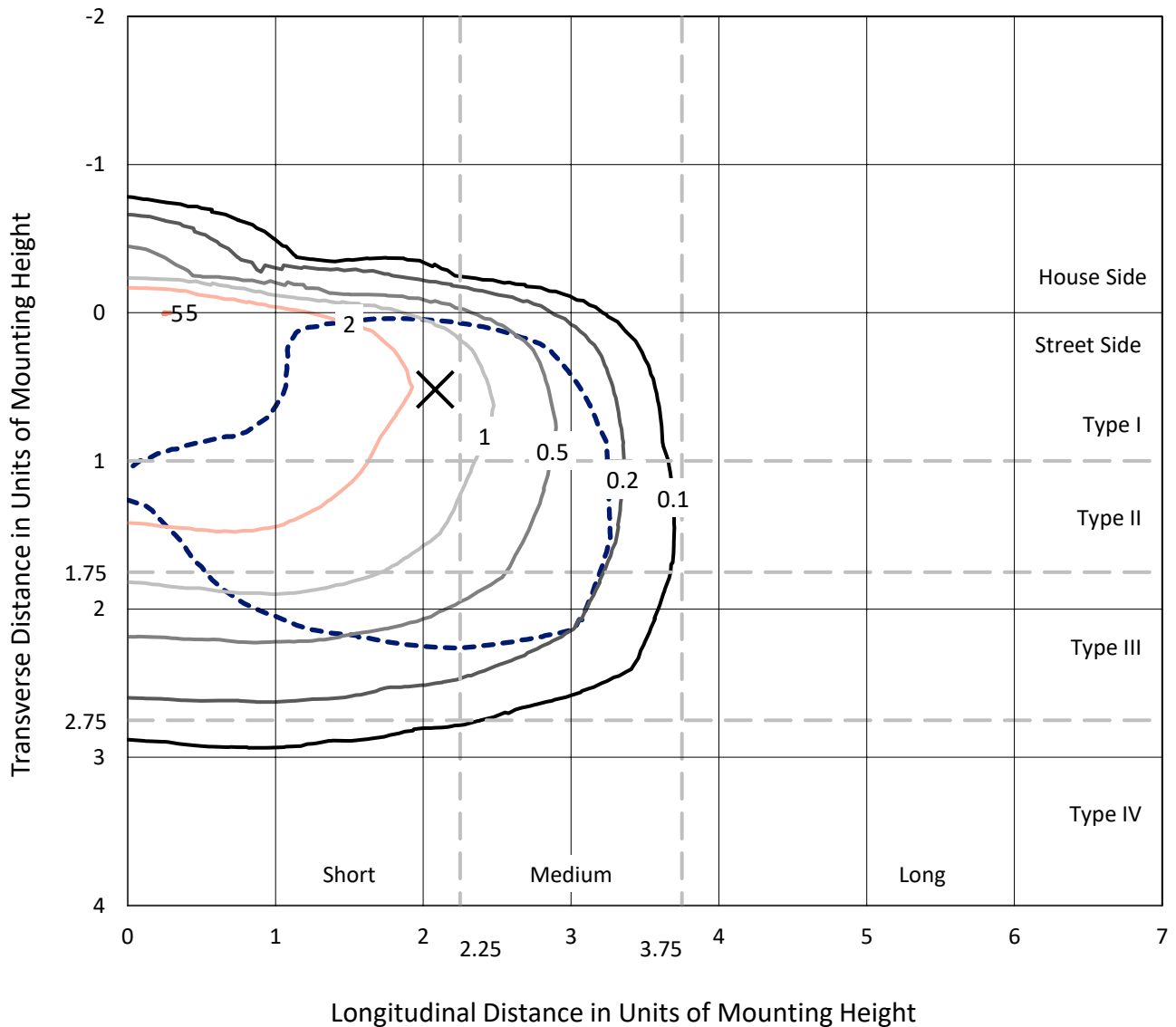
Input Watts (W): 182  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P648016  
 CATALOG NUMBER: GALN-SA6A-835-U-T3R-HSS

### Iso-Footcandle Lines of Horizontal Illumination

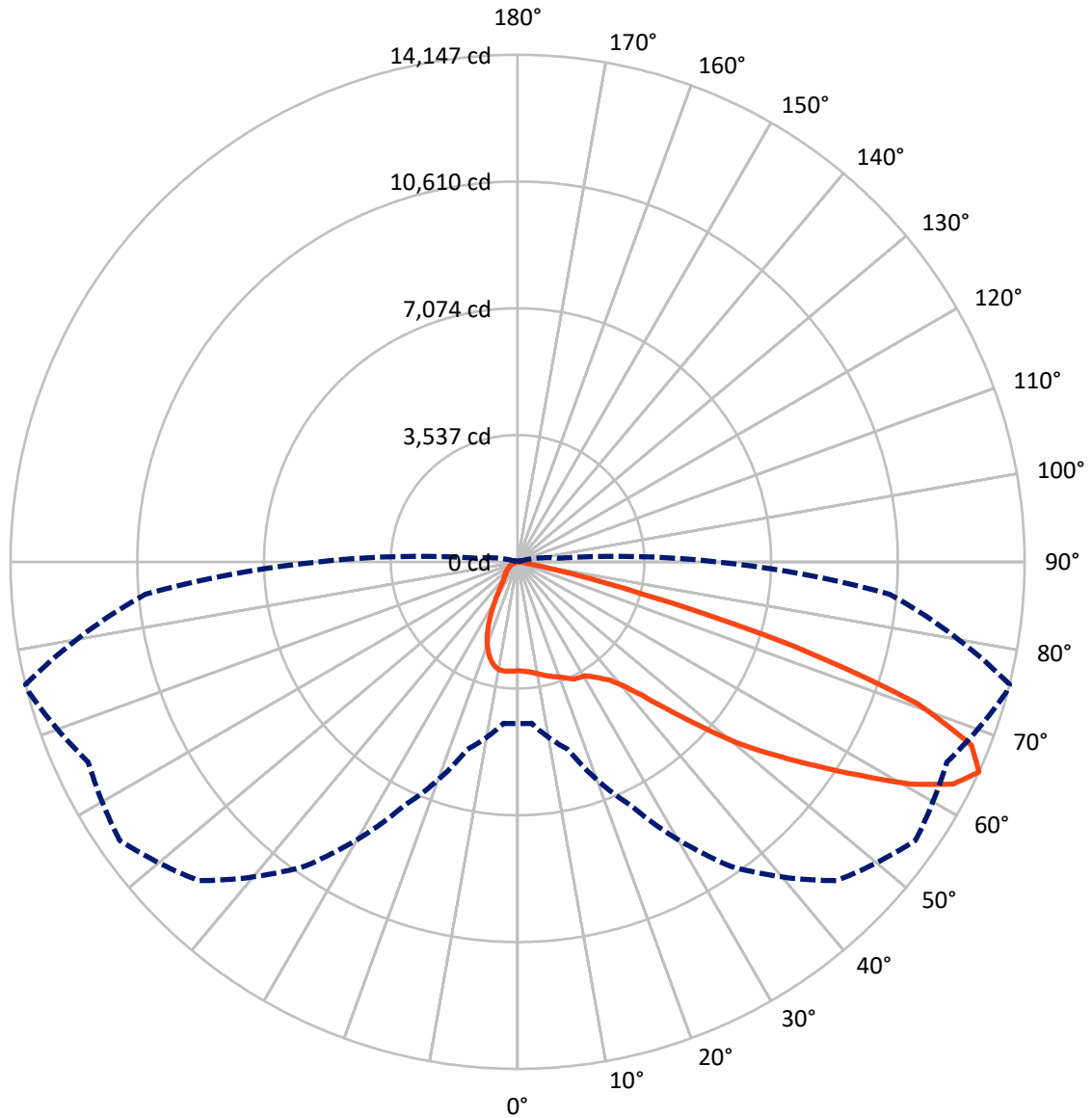
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc  
 Type III - Short - N/A

REPORT NUMBER: P648016  
CATALOG NUMBER: GALN-SA6A-835-U-T3R-HSS

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P648016  
 CATALOG NUMBER: GALN-SA6A-835-U-T3R-HSS

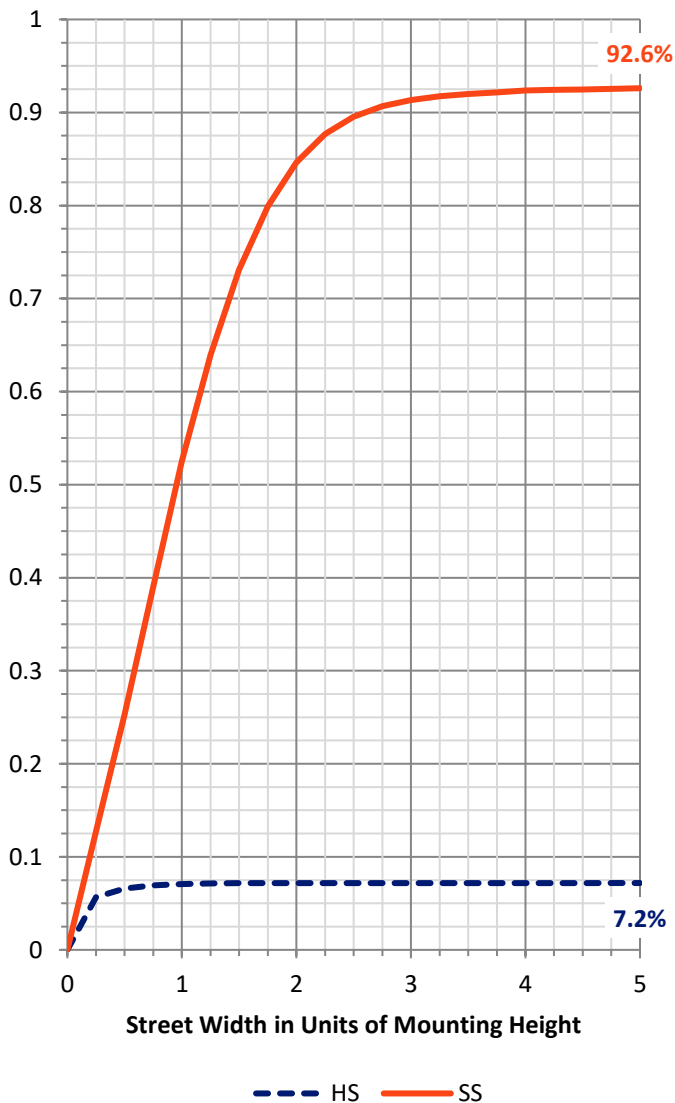
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1200.6	0.0	1200.6
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	15424.0	0.0	15424.0
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	16624.7	0.0	16624.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	250.5	1.5
10°-20°	557.8	3.4
20°-30°	898.9	5.4
30°-40°	1562.9	9.4
40°-50°	2582.6	15.5
50°-60°	3989.5	24.0
60°-70°	4871.8	29.3
70°-80°	1849.0	11.1
80°-90°	61.7	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°	16624.7	100.0
0°-180°	16624.7	100.0

**Coefficient of Utilization**

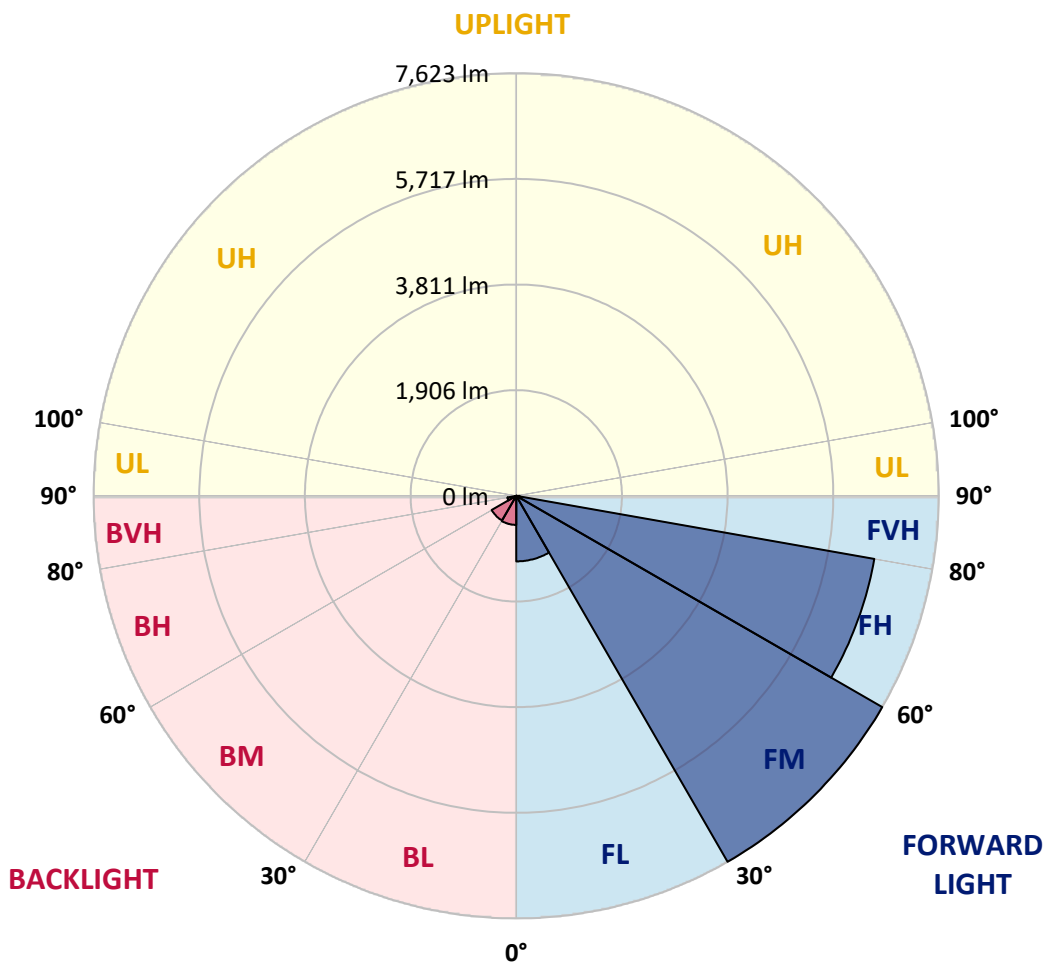


REPORT NUMBER: P648016  
 CATALOG NUMBER: GALN-SA6A-835-U-T3R-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1182.7	7.1			
FM (30°-60°)	7622.7	45.9			
FH (60°-80°)	6557.9	39.4			G3/7500
FVH (80°-90°)	60.9	0.4			G1/100
BL (0°-30°)	524.5	3.2	B2/1000		
BM (30°-60°)	512.3	3.1	B1/1000		
BH (60°-80°)	162.9	1.0	B1/500		G1/500
BVH (80°-90°)	0.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**  
 Type III Short





REPORT NUMBER: P648016

CATALOG NUMBER: GALN-SA6A-835-U-T3R-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3041.2	3041.2	3041.2	3041.2	3041.2	3041.2	3041.2	3041.2	3041.2	3041.2	3041.2
2.5°	2906.2	2907.4	2914.4	2932.0	2959.0	2981.4	3000.1	3030.6	3051.7	3054.1	3061.1
5°	2705.5	2691.4	2705.5	2751.2	2792.3	2854.6	2930.8	3007.1	3075.2	3079.9	3112.8
7.5°	2480.2	2491.9	2514.1	2561.1	2638.6	2733.7	2844.0	2980.2	3109.3	3121.0	3185.6
10°	2251.3	2277.0	2313.5	2385.0	2493.1	2616.3	2766.5	2961.4	3163.2	3179.7	3291.2
12.5°	2039.9	2051.7	2096.3	2192.6	2326.4	2500.1	2707.8	2950.8	3223.1	3243.0	3403.9
15°	1878.0	1893.3	1932.0	2018.8	2167.9	2390.9	2659.7	2947.3	3281.8	3310.0	3516.5
17.5°	1847.5	1856.9	1873.3	1932.0	2062.3	2304.1	2616.3	2946.1	3338.2	3372.1	3621.0
20°	1973.1	1964.9	1948.4	1942.5	2014.2	2237.2	2584.6	2955.5	3392.1	3430.9	3731.3
22.5°	2287.6	2298.2	2202.0	2088.1	2064.6	2226.6	2579.9	3000.1	3477.9	3523.6	3854.6
25°	2955.5	2874.5	2724.3	2452.0	2246.6	2291.1	2632.7	3105.8	3577.6	3628.0	3966.1
27.5°	3693.8	3669.1	3435.6	2987.2	2604.6	2427.3	2726.6	3186.7	3610.4	3662.1	4029.5
30°	4419.2	4448.5	4180.9	3685.6	3124.5	2679.7	2814.7	3217.3	3639.8	3693.8	4110.4
32.5°	5091.7	5126.9	4892.2	4401.6	3737.2	3116.3	2966.1	3335.8	3763.0	3818.2	4245.4
35°	5621.1	5625.8	5448.5	5057.7	4406.3	3646.8	3293.5	3543.5	3929.7	3994.2	4388.6
37.5°	6107.0	6100.0	5892.2	5555.4	4963.8	4173.9	3705.5	3783.0	4119.8	4186.8	4595.2
40°	6467.3	6472.0	6405.2	6088.2	5483.7	4661.0	4031.8	4007.2	4439.1	4543.6	4895.7
42.5°	6708.0	6751.4	6784.2	6623.5	6137.5	5260.7	4533.0	4487.2	4993.1	5079.9	5320.6
45°	6902.8	6980.3	7144.6	7136.4	6765.5	5996.7	5220.8	5126.9	5778.4	5871.1	5861.7
47.5°	7044.8	7123.5	7395.7	7560.1	7355.9	6710.3	6085.9	6004.9	6716.2	6817.1	6459.1
50°	7117.6	7211.5	7558.9	7877.1	7817.2	7398.1	7071.8	7076.5	7848.9	7946.3	7151.6
52.5°	6947.4	7069.5	7645.8	8218.6	8334.8	8056.6	7995.6	8150.5	8857.1	8940.5	7777.2
55°	6404.0	6557.7	7527.2	8509.6	8934.6	8833.6	9044.9	9280.8	9959.2	10013.2	8419.3
57.5°	6060.0	6223.2	7177.4	8757.3	9655.3	9810.2	10144.7	10317.3	11096.6	11233.9	9156.4
60°	5770.2	5898.1	6889.9	8810.2	10387.7	11005.1	11330.2	11508.6	12500.4	12589.6	9967.4
62.5°	5287.8	5434.5	6404.0	8441.6	10756.2	11961.7	12635.4	12555.6	13586.1	13648.3	10465.1
65°	4511.9	4524.8	5418.0	7515.5	10375.9	12582.6	13552.1	13217.6	14105.0	14147.2	10426.4
67.5°	3367.4	3491.9	4168.0	5907.5	8764.4	12052.0	13849.1	13235.2	13777.4	13660.1	9598.9
70°	2169.1	2264.1	2825.2	4096.3	6319.4	10057.9	12864.3	12327.9	12091.9	11831.4	7857.1
72.5°	1001.2	1123.3	1678.4	2340.5	3747.8	7164.5	10442.9	10015.6	8703.4	8060.1	4994.3
75°	436.6	467.1	828.6	1234.8	1757.1	3788.9	6885.2	6217.3	3930.9	3590.5	1998.9
77.5°	266.5	286.4	434.3	662.0	690.1	1443.7	3709.1	2712.5	1214.8	1071.6	542.3
80°	180.8	203.0	315.7	346.2	235.9	402.6	1392.1	724.2	245.3	234.7	116.2
82.5°	88.0	111.5	233.6	193.6	102.1	129.1	405.0	155.0	71.6	66.9	41.1
85°	12.9	22.3	131.5	126.8	45.8	30.5	71.6	38.8	24.7	23.5	18.8
87.5°	0.0	0.0	44.6	20.0	4.7	4.7	8.2	8.2	9.4	8.2	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



REPORT NUMBER: P648016

CATALOG NUMBER: GALN-SA6A-835-U-T3R-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3041.2	3041.2	3041.2	3041.2	3041.2	3041.2	3041.2	3041.2	3041.2	3041.2	3041.2
2.5°	3064.7	3070.5	3048.2	3016.5	2982.5	2948.5	2900.3	2856.9	2831.1	2846.4	2808.8
5°	3119.8	3115.1	3056.4	2960.2	2832.3	2678.5	2525.9	2395.6	2353.4	2290.0	2282.9
7.5°	3196.1	3183.2	3058.8	2838.1	2549.4	2260.6	1979.0	1792.3	1685.5	1595.1	1597.5
10°	3302.9	3265.3	3031.8	2623.4	2147.9	1712.5	1353.3	1106.8	1000.0	966.0	939.0
12.5°	3413.3	3340.5	2956.7	2333.4	1672.6	1170.2	822.8	672.5	606.8	585.7	583.3
15°	3511.8	3396.8	2825.2	1984.8	1216.0	747.7	561.0	511.8	503.5	504.7	503.5
17.5°	3609.2	3441.4	2643.3	1615.1	826.3	536.4	482.4	470.7	474.2	478.9	477.7
20°	3690.3	3450.8	2410.9	1232.4	584.5	470.7	453.0	450.7	454.2	457.7	457.7
22.5°	3778.3	3457.9	2135.1	853.3	477.7	437.8	428.4	428.4	433.1	437.8	438.9
25°	3844.1	3419.1	1805.2	612.7	421.4	406.1	401.4	402.6	407.3	409.7	408.5
27.5°	3854.6	3310.0	1455.4	469.5	382.7	367.4	362.7	367.4	361.5	365.0	362.7
30°	3863.9	3171.5	1101.0	395.6	347.4	323.9	316.9	309.8	305.2	299.3	298.2
32.5°	3893.3	3008.3	804.0	355.6	314.5	288.8	272.3	252.4	237.1	232.4	231.2
35°	3906.2	2812.3	590.4	323.9	285.2	257.1	227.7	199.5	177.3	169.0	174.9
37.5°	3955.6	2622.2	457.7	300.5	259.4	224.2	186.6	151.4	130.3	125.6	127.9
40°	4056.5	2415.6	383.8	280.5	237.1	193.6	147.9	113.8	99.8	95.1	93.9
42.5°	4218.4	2210.2	341.5	261.8	214.8	163.2	116.2	89.2	77.4	73.9	73.9
45°	4415.7	2013.0	312.2	241.8	191.3	131.5	91.5	71.6	64.5	62.2	62.2
47.5°	4675.1	1840.4	287.6	221.8	165.5	104.5	73.9	62.2	57.6	58.7	59.9
50°	4938.0	1712.5	260.6	199.5	136.2	85.7	63.3	55.2	54.0	55.2	55.2
52.5°	5136.3	1637.4	224.2	169.0	106.8	71.6	56.4	51.7	50.5	48.2	48.2
55°	5404.0	1621.0	178.4	137.3	84.5	59.9	50.5	47.0	43.5	41.1	39.9
57.5°	5747.8	1639.8	137.3	106.8	65.7	49.3	44.6	38.8	34.1	29.4	29.4
60°	5961.4	1597.5	106.8	82.1	48.2	39.9	34.1	28.2	22.3	18.8	17.6
62.5°	5893.4	1419.0	84.5	61.1	34.1	29.4	22.3	18.8	12.9	9.4	8.2
65°	5542.5	1145.6	68.0	42.3	24.7	17.6	11.7	11.7	5.9	1.2	0.0
67.5°	4851.1	848.6	54.0	28.2	14.1	8.2	5.9	3.5	0.0	0.0	0.0
70°	3948.5	612.7	42.3	17.6	8.2	5.9	2.3	1.2	0.0	0.0	0.0
72.5°	2507.1	350.9	32.9	10.6	5.9	2.3	0.0	0.0	0.0	0.0	0.0
75°	969.5	137.3	22.3	7.0	2.3	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	274.7	64.5	12.9	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	71.6	28.2	7.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	34.1	11.7	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	20.0	4.7	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.4	1.2	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)