

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: P647017

Luminaire Tested: **GALN-SA6C-835-U-T2R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647017  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6C-835-U-T2R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 28684.4 lumens  
Efficiency: N/A  
Efficacy: 89.4 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): 321  
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

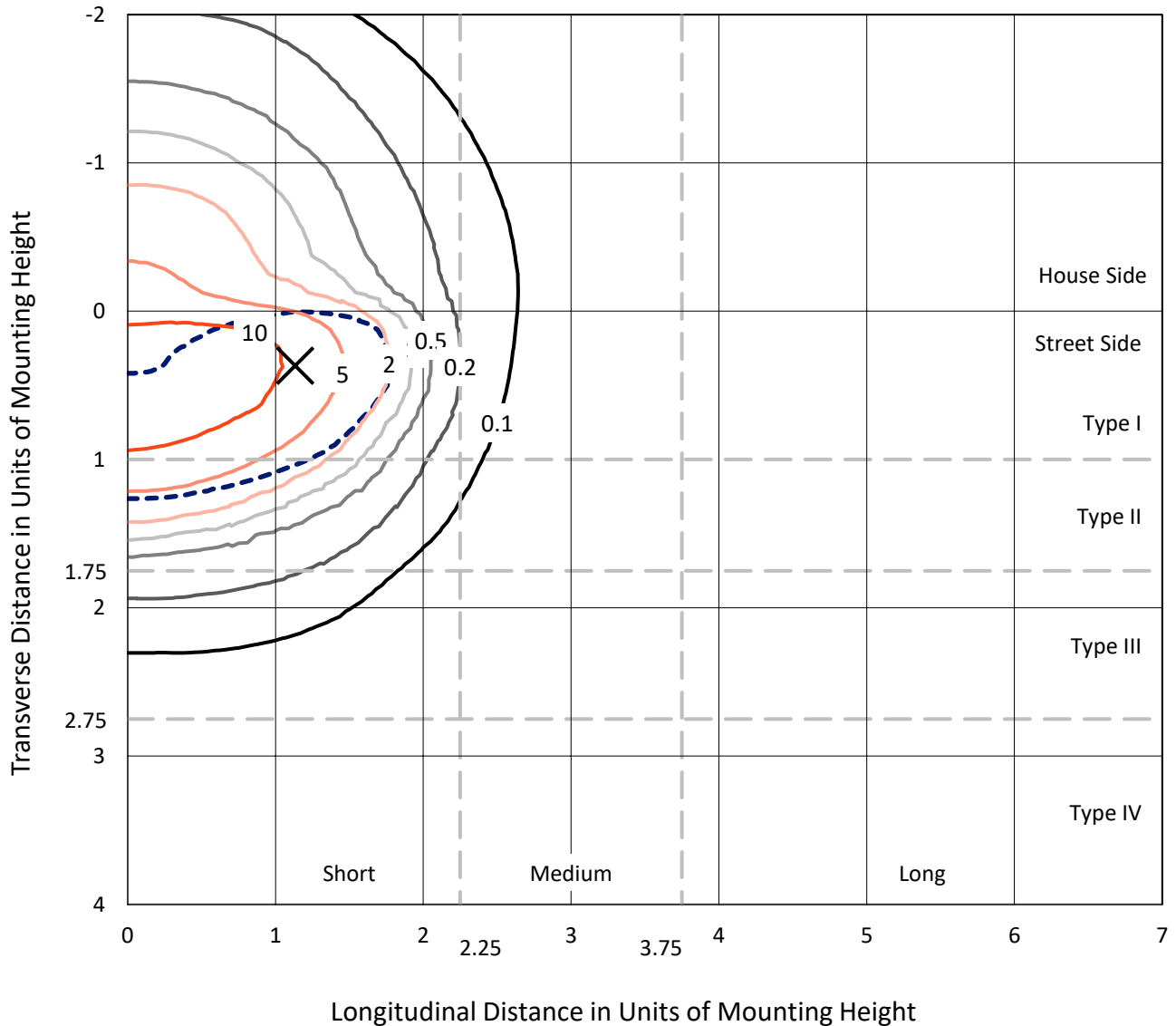




REPORT NUMBER: P647017  
 CATALOG NUMBER: GALN-SA6C-835-U-T2R-GRSWH

### Iso-Footcandle Lines of Horizontal Illumination

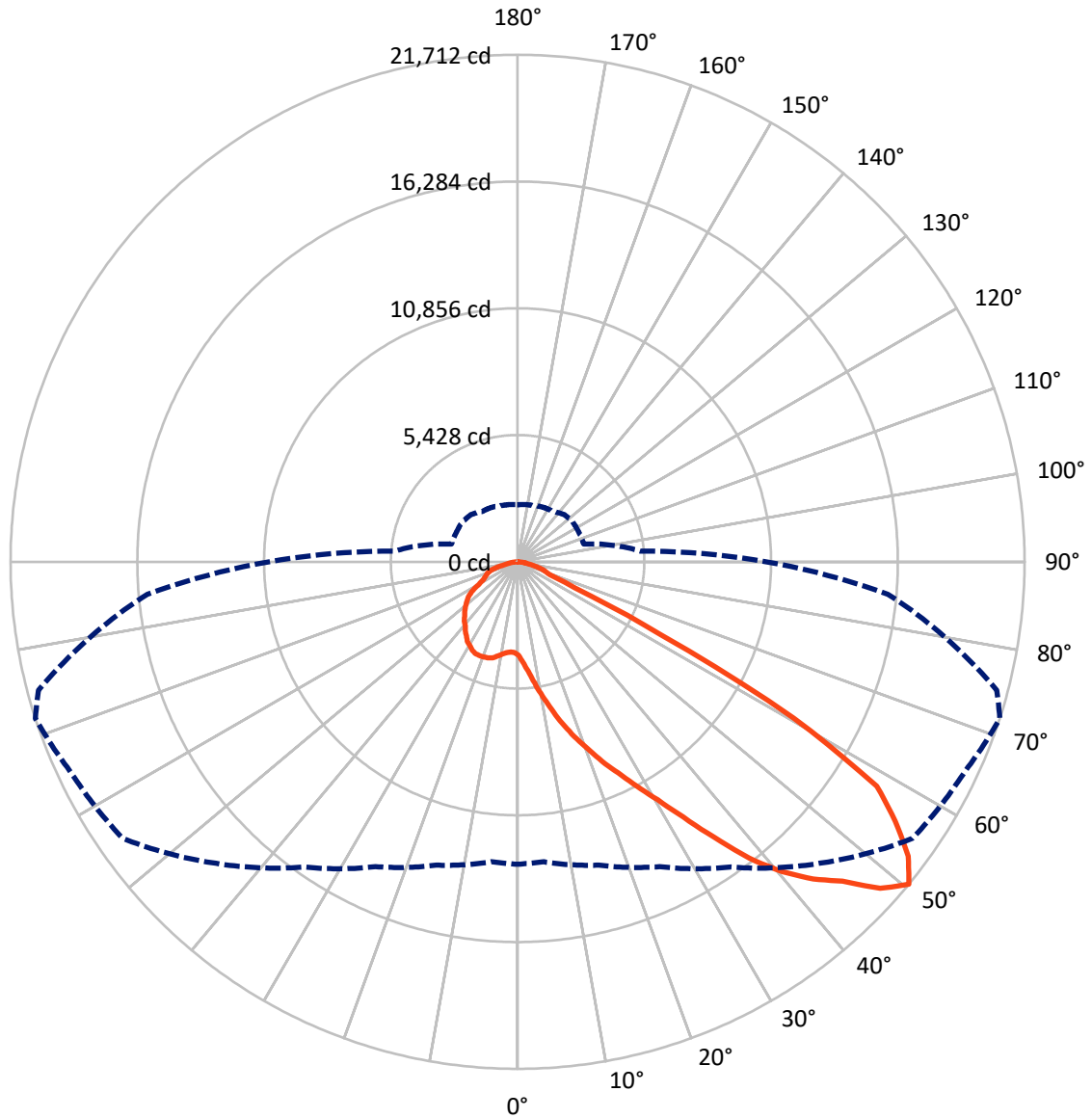
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.3 fc  
 Type II - Short - N/A

REPORT NUMBER: P647017  
CATALOG NUMBER: GALN-SA6C-835-U-T2R-GRSWH

### Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

REPORT NUMBER: P647017  
 CATALOG NUMBER: GALN-SA6C-835-U-T2R-GRSWH

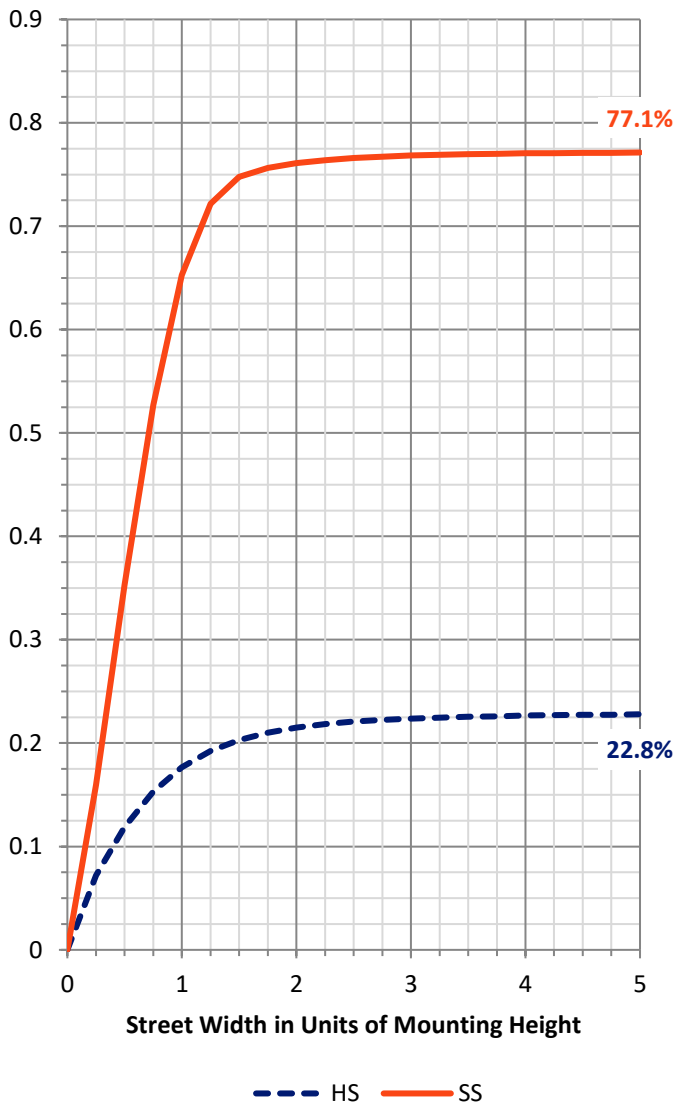
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6571.8	0.0	6571.8
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	22112.6	0.0	22112.6
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	28684.4	0.0	28684.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	469.7	1.6
10°-20°	1755.9	6.1
20°-30°	3404.5	11.9
30°-40°	5640.1	19.7
40°-50°	7891.7	27.5
50°-60°	6657.7	23.2
60°-70°	2029.2	7.1
70°-80°	711.9	2.5
80°-90°	123.8	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°	28684.4	100.0
0°-180°	28684.4	100.0

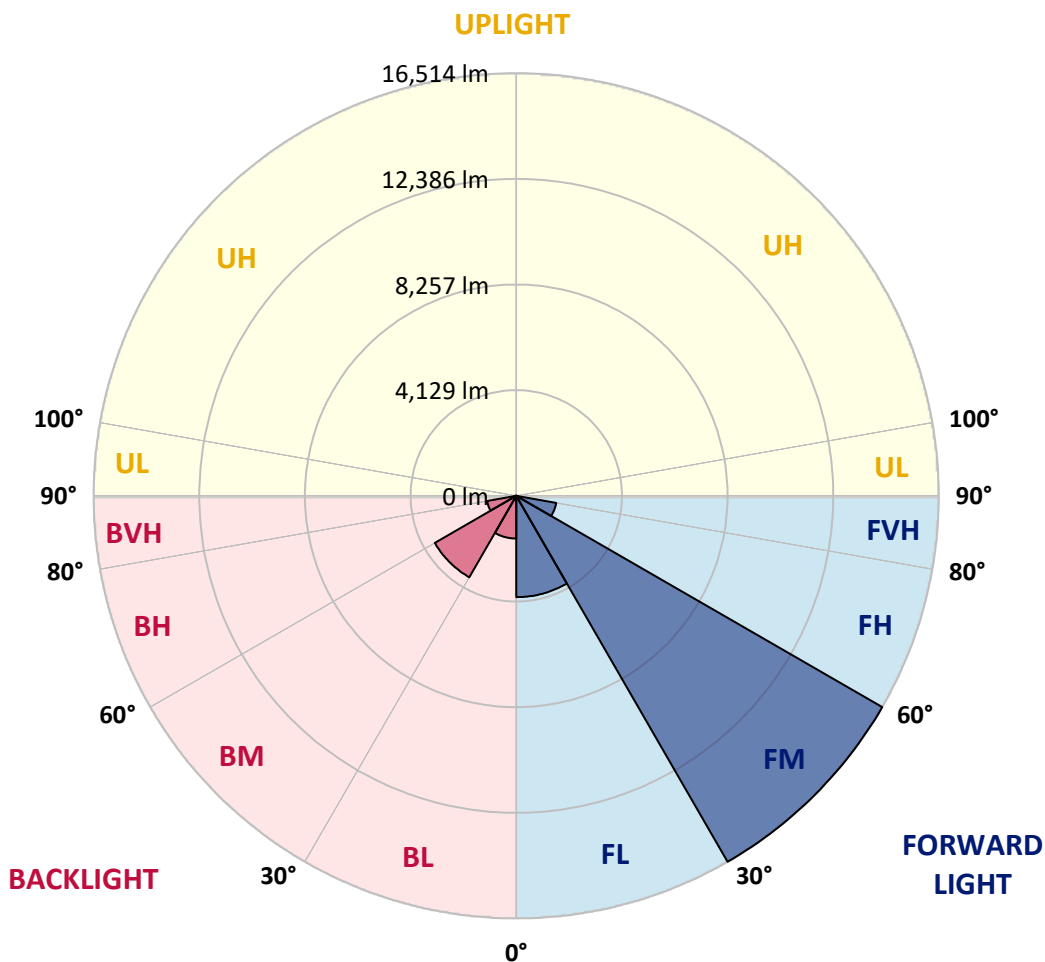


REPORT NUMBER: P647017  
 CATALOG NUMBER: GALN-SA6C-835-U-T2R-GRSWH

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3959.5	13.8			
FM (30°-60°)	16514.4	57.6			
FH (60°-80°)	1583.3	5.5			G1/1800
FVH (80°-90°)	55.4	0.2			G1/100
BL (0°-30°)	1670.6	5.8	B3/2500		
BM (30°-60°)	3675.0	12.8	B3/5000		
BH (60°-80°)	1157.8	4.0	B3/2500		G3/2500
BVH (80°-90°)	68.3	0.2			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: P647017

CATALOG NUMBER: GALN-SA6C-835-U-T2R-GRSWH

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	3993.1	3993.1	3993.1	3993.1	3993.1	3993.1	3993.1	3993.1	3993.1	3993.1	3993.1
2.5°	5136.0	5104.1	5008.2	4976.3	4862.7	4656.9	4585.9	4376.4	4287.7	4206.1	4110.3
5°	6495.5	6346.4	6335.7	6154.7	5892.1	5739.5	5285.1	4979.9	4699.5	4557.5	4294.8
7.5°	7361.5	7365.1	7365.1	7216.0	7006.6	6619.7	6211.5	5661.3	5239.0	5029.5	4582.4
10°	8185.0	8114.0	8075.0	8060.8	7918.8	7542.6	7106.0	6424.5	5846.0	5601.0	4798.9
12.5°	8767.1	8706.8	8795.5	8749.4	8646.4	8401.5	7989.8	7212.4	6488.4	6158.3	5146.7
15°	9044.0	9086.6	9157.6	9285.4	9239.2	9146.9	8692.6	8021.8	7180.5	6807.8	5455.5
17.5°	9469.9	9352.8	9438.0	9597.7	9725.5	9682.9	9423.7	8607.4	7865.5	7407.6	5870.8
20°	9768.1	9700.6	9743.2	9927.7	10023.6	10265.0	10130.1	9374.1	8522.2	8039.5	6360.6
22.5°	10619.9	10520.5	10382.1	10410.5	10446.0	10616.4	10648.3	10215.3	9285.4	8774.2	6825.6
25°	11670.5	11578.3	11415.0	11248.2	11145.2	11113.3	11223.3	10875.5	10016.5	9487.6	7326.1
27.5°	12827.7	12671.5	12568.6	12224.3	11947.4	11904.8	11851.6	11663.4	10882.6	10311.1	7890.4
30°	13952.8	13828.6	13690.2	13140.0	12852.5	12806.4	12543.7	12597.0	11823.1	11187.8	8529.3
32.5°	14804.7	14815.4	14499.4	14084.1	13814.4	13569.5	13473.6	13626.3	13030.0	12518.8	9242.8
35°	15493.3	15525.2	15223.6	14847.3	14556.2	14726.6	14684.0	14755.0	14471.0	13846.3	10073.3
37.5°	16164.1	16004.4	15681.4	15500.4	15347.7	15628.1	15990.2	16050.6	16103.8	15369.0	11038.7
40°	16274.2	16288.4	16100.3	16228.0	16036.4	16458.7	17299.9	17221.9	17438.3	16795.9	12085.8
42.5°	16118.0	16149.9	16224.5	16405.5	16866.9	17374.5	18623.9	18304.4	18567.1	17995.6	13104.5
45°	15862.4	15731.1	15823.4	16512.0	17310.6	18439.3	19834.3	19585.8	19500.6	19021.4	14318.4
47.5°	14641.4	14776.3	15063.8	15912.1	17111.8	18623.9	20693.2	20636.4	20892.0	20554.8	15422.3
50°	12948.3	12895.1	13448.8	14403.6	15951.2	18261.8	20647.1	21161.7	21711.9	21243.4	15915.6
52.5°	9697.1	9981.0	10456.7	11642.1	13849.9	16288.4	19639.0	20498.0	20945.2	20845.8	15518.1
55°	6129.9	6215.1	6502.6	7911.7	9899.4	13072.6	16835.0	18826.2	19624.8	19997.5	15152.5
57.5°	2978.0	2818.3	3169.7	4301.9	5718.2	8791.9	12983.9	16398.4	18134.0	18808.4	14357.5
60°	1554.6	1615.0	1753.5	2158.0	2956.7	4564.6	8092.7	10928.7	13580.1	14616.6	10882.6
62.5°	1288.4	1309.7	1402.0	1604.4	1966.4	2626.6	4131.6	5327.7	6924.9	7858.4	6190.2
65°	1093.2	1103.9	1203.2	1338.1	1568.8	1849.3	2126.1	2225.5	2694.0	2765.0	2200.6
67.5°	912.2	922.8	1029.3	1157.1	1306.2	1380.7	1451.7	1444.6	1497.9	1476.6	1473.0
70°	702.8	713.5	823.5	958.3	1032.9	990.3	1210.4	1260.1	1281.4	1299.1	1327.5
72.5°	507.5	528.8	614.0	709.9	670.9	770.2	997.4	1071.9	1100.3	1111.0	1146.5
75°	369.1	376.2	397.5	369.1	426.0	536.0	702.8	795.1	830.6	841.3	894.4
77.5°	163.3	166.9	170.4	213.0	273.3	333.6	418.8	493.4	543.1	557.3	571.4
80°	85.2	88.7	110.0	145.6	195.2	244.9	305.2	347.8	379.8	383.4	397.5
82.5°	53.2	56.8	78.1	103.0	138.4	181.0	223.6	259.1	283.9	287.5	291.0
85°	24.8	31.9	46.1	63.9	92.3	117.1	120.7	103.0	110.0	113.6	106.5
87.5°	7.1	10.6	14.2	10.6	14.2	14.2	17.8	21.3	21.3	21.3	24.8
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: P647017

CATALOG NUMBER: GALN-SA6C-835-U-T2R-GRSWH

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3993.1	3993.1	3993.1	3993.1	3993.1	3993.1	3993.1	3993.1	3993.1	3993.1	3993.1
2.5°	4057.0	4025.1	3900.8	3854.7	3734.0	3755.3	3691.4	3687.9	3673.7	3670.2	3666.6
5°	4156.4	4057.0	3908.0	3794.3	3726.9	3719.8	3673.7	3673.7	3687.9	3698.5	3673.7
7.5°	4319.7	4206.1	3954.1	3847.6	3787.2	3776.6	3744.6	3719.8	3751.7	3741.1	3712.7
10°	4507.8	4309.0	4042.8	3950.5	3851.1	3826.3	3826.3	3836.9	3783.7	3801.5	3773.0
12.5°	4717.2	4451.0	4156.4	4049.9	3932.8	3918.6	3911.5	3833.4	3861.8	3847.6	3776.6
15°	4983.4	4614.3	4301.9	4120.9	4021.5	3957.6	3865.4	3851.1	3833.4	3797.9	3765.9
17.5°	5270.9	4791.7	4369.4	4142.2	3993.1	3946.9	3876.0	3801.5	3748.2	3755.3	3730.4
20°	5515.8	4955.0	4394.2	4163.5	3971.8	3883.1	3773.0	3726.9	3670.2	3666.6	3663.0
22.5°	5806.9	5175.1	4429.7	4106.7	3908.0	3815.6	3741.1	3659.5	3620.4	3570.7	3595.6
25°	6154.7	5260.3	4436.8	4074.7	3861.8	3698.5	3659.5	3570.7	3556.5	3485.5	3499.8
27.5°	6406.7	5306.4	4380.0	3975.4	3755.3	3631.1	3560.1	3496.2	3471.4	3418.1	3403.9
30°	6743.9	5377.4	4259.3	3851.1	3648.9	3510.4	3467.8	3453.6	3382.6	3325.8	3318.7
32.5°	7127.3	5423.5	4181.2	3723.3	3538.8	3432.3	3453.6	3386.2	3297.4	3247.7	3233.6
35°	7432.5	5441.3	3986.0	3577.8	3464.2	3396.8	3372.0	3357.7	3230.0	3183.8	3148.4
37.5°	7897.5	5402.2	3822.8	3474.9	3382.6	3357.7	3336.4	3240.6	3095.1	3027.7	2978.0
40°	8440.6	5391.6	3613.3	3329.4	3304.5	3332.9	3269.0	3119.9	2917.6	2843.1	2807.6
42.5°	8962.3	5466.1	3482.0	3251.3	3219.3	3230.0	3141.2	2917.6	2818.3	2775.7	2718.9
45°	9835.5	5622.3	3265.5	3130.6	3116.4	3109.3	3002.8	2768.5	2711.8	2658.5	2647.9
47.5°	10623.4	5519.4	3127.1	3006.4	3020.6	2981.5	2754.4	2679.8	2615.9	2562.7	2545.0
50°	10669.6	5274.4	2931.9	2910.6	2914.1	2846.7	2630.1	2580.5	2498.8	2463.3	2438.5
52.5°	10428.2	4873.4	2750.8	2757.9	2768.5	2658.5	2477.5	2442.0	2374.6	2324.9	2310.7
55°	9750.3	4248.7	2573.3	2601.8	2630.1	2420.7	2364.0	2275.2	2221.9	2151.0	2154.5
57.5°	8589.7	3421.6	2324.9	2371.0	2431.4	2200.6	2158.0	2048.0	1969.9	1913.2	1906.1
60°	5757.2	2434.9	1952.2	1969.9	2104.8	2012.5	2008.9	1898.9	1792.4	1742.8	1714.4
62.5°	3396.8	1859.9	1686.0	1668.3	1664.7	1717.9	1806.7	1767.6	1629.2	1533.3	1561.8
65°	1778.3	1607.9	1568.8	1508.5	1473.0	1458.8	1526.2	1544.0	1451.7	1348.8	1341.7
67.5°	1494.3	1494.3	1462.3	1441.0	1391.4	1331.0	1288.4	1231.7	1217.5	1189.1	1153.6
70°	1359.4	1394.9	1384.3	1334.6	1292.0	1224.5	1114.5	1022.2	933.5	901.5	922.8
72.5°	1185.5	1221.0	1221.0	1196.2	1139.3	1036.5	930.0	823.5	748.9	692.2	685.0
75°	912.2	930.0	972.6	944.1	869.6	805.7	695.7	585.7	514.7	461.4	450.8
77.5°	582.1	610.5	610.5	607.0	553.7	493.4	422.4	344.3	291.0	252.0	241.4
80°	386.9	404.7	418.8	404.7	369.1	323.0	269.7	216.5	177.5	145.6	138.4
82.5°	283.9	305.2	315.9	301.7	266.2	230.8	191.7	152.6	113.6	88.7	81.7
85°	110.0	113.6	127.8	152.6	149.1	145.6	117.1	85.2	63.9	46.1	42.6
87.5°	28.4	24.8	28.4	28.4	24.8	21.3	21.3	21.3	21.3	10.6	14.2
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)