

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: P650920

Luminaire Tested: **GALN-SA5C-840-U-T2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P650920  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA5C-840-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22135.1 lumens  
Efficiency: N/A  
Efficacy: 82.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G3

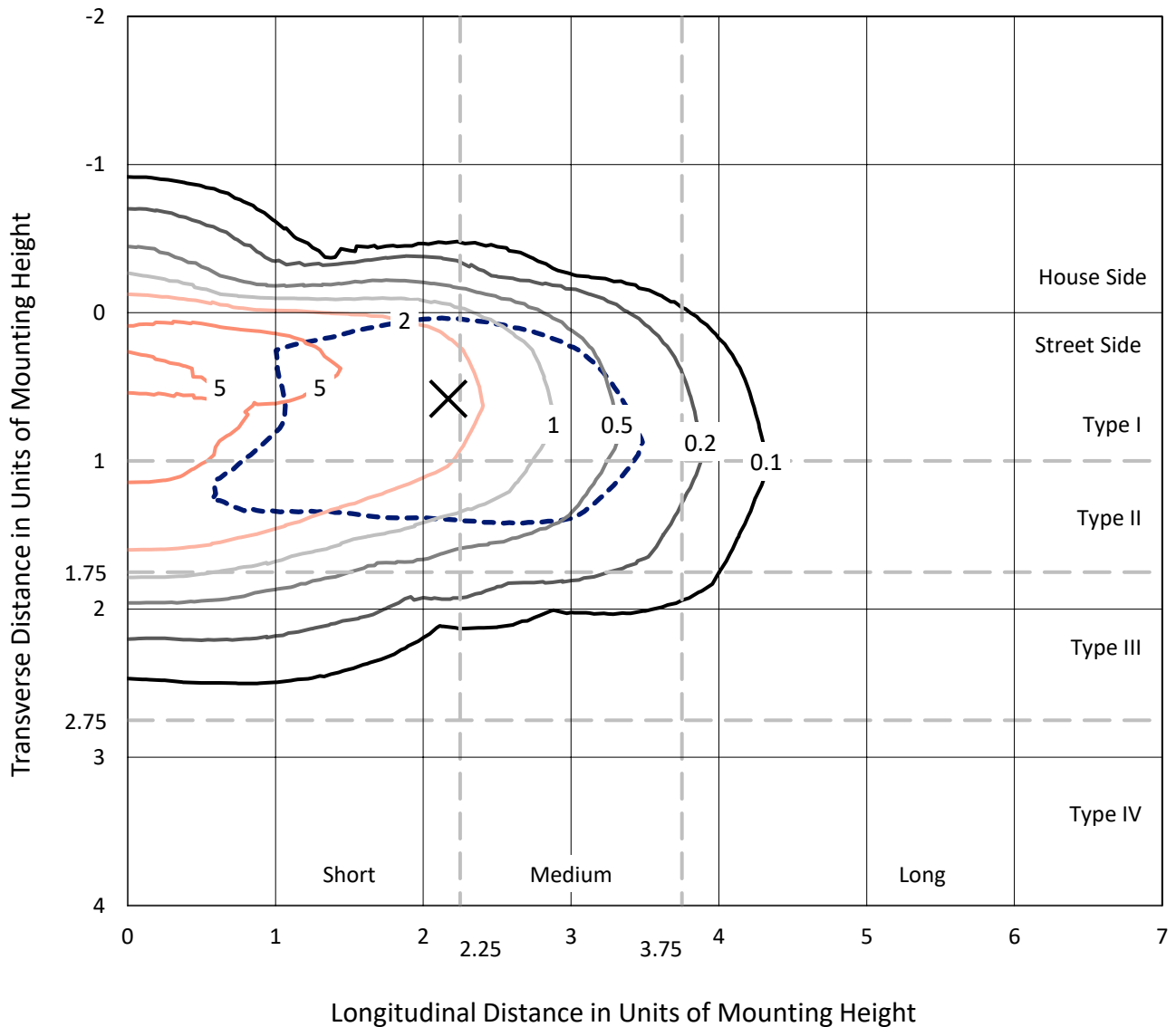
Input Watts (W): 269  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

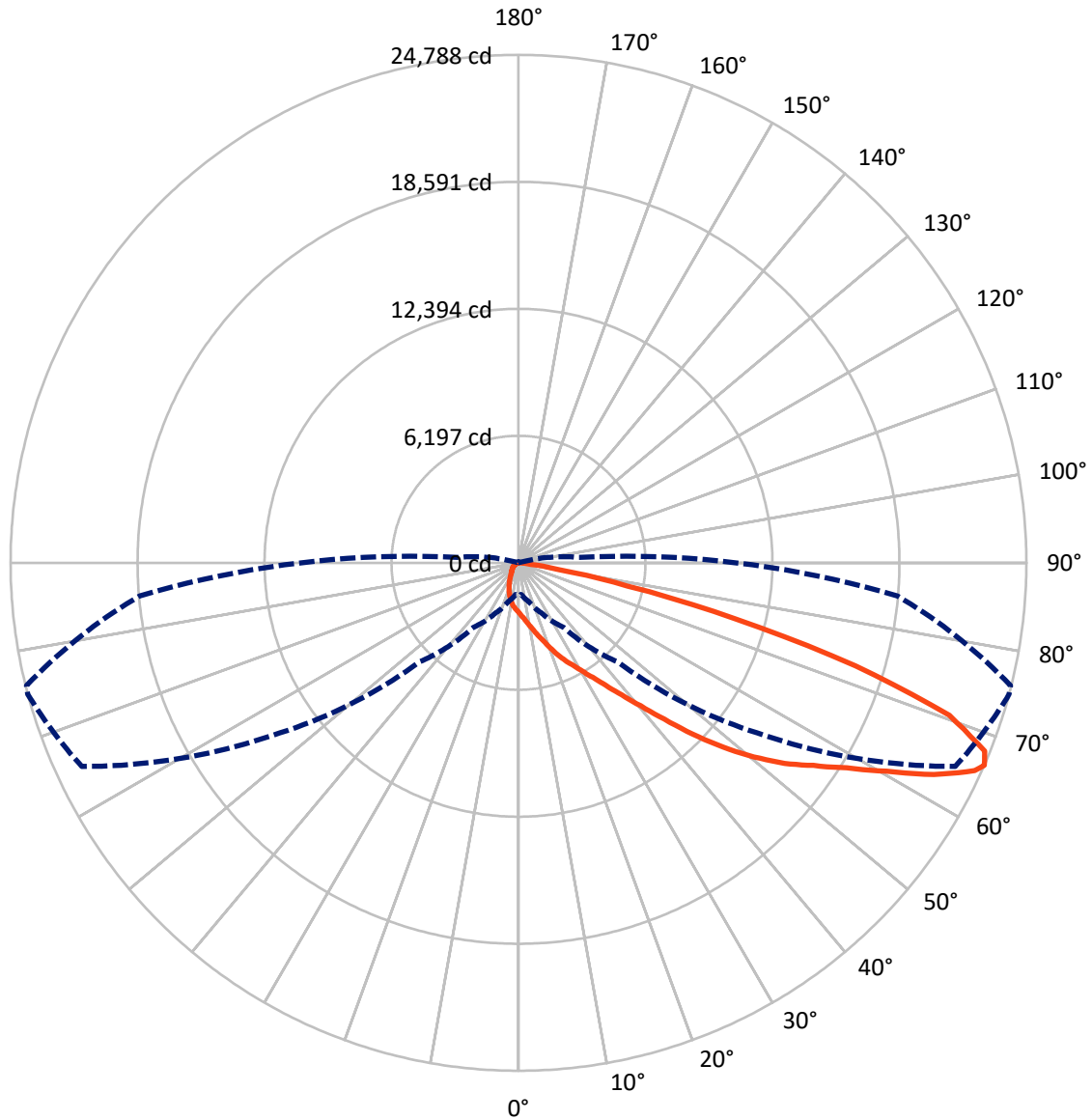
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 66-Deg Vertical

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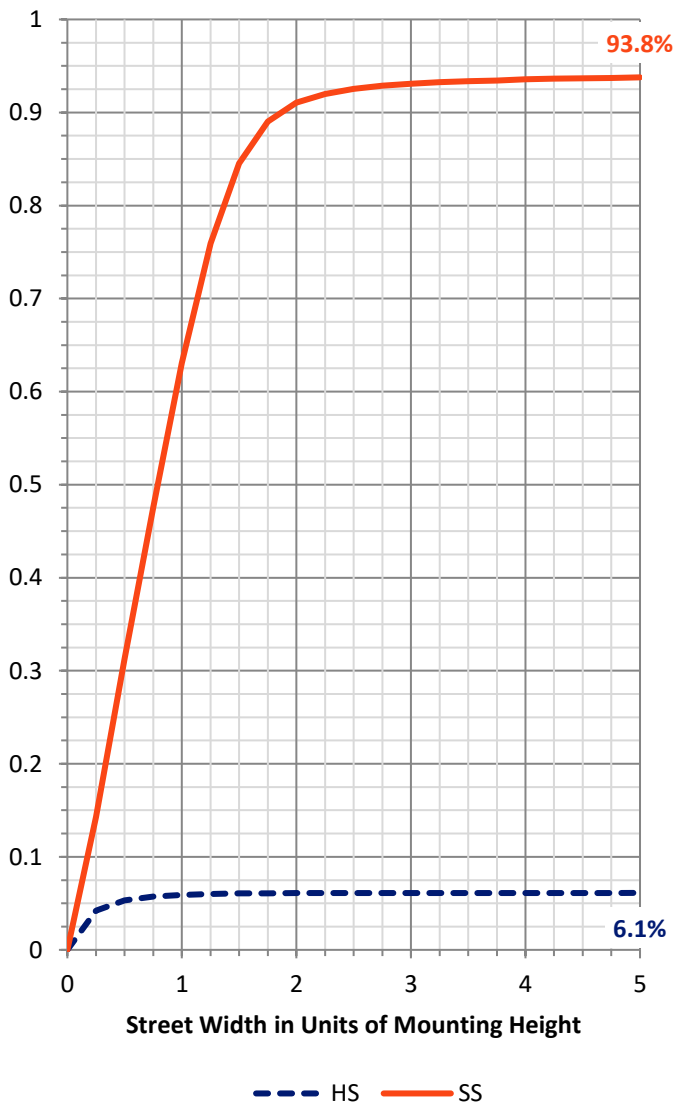
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1366.5	0.0	1366.5
	% Fixture	6.2	0.0	6.2
<b>Street Side</b>	Lumens	20768.6	0.0	20768.6
	% Fixture	93.8	0.0	93.8
<b>Total</b>	Lumens	22135.1	0.0	22135.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	233.5	1.1
10°-20°	687.1	3.1
20°-30°	1186.5	5.4
30°-40°	2140.3	9.7
40°-50°	3866.5	17.5
50°-60°	6027.9	27.2
60°-70°	5726.2	25.9
70°-80°	2146.0	9.7
80°-90°	121.1	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°	22135.1	100.0
0°-180°	22135.1	100.0

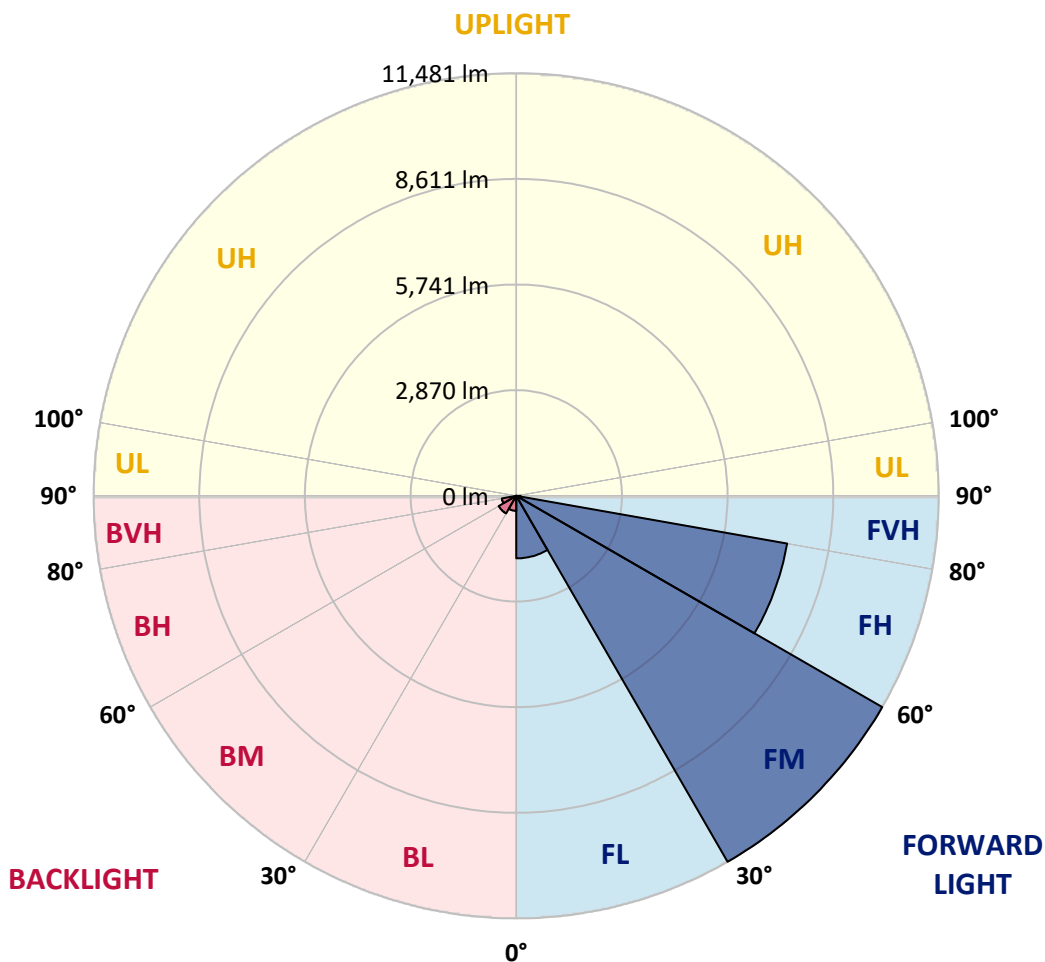


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1699.1	7.7			
FM (30°-60°)	11481.5	51.9			
FH (60°-80°)	7473.2	33.8			G3/7500
FVH (80°-90°)	114.8	0.5			G2/225
BL (0°-30°)	408.1	1.8	B1/500		
BM (30°-60°)	553.1	2.5	B1/1000		
BH (60°-80°)	399.0	1.8	B1/500		G1/500
BVH (80°-90°)	6.2	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 II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2420.7	2420.7	2420.7	2420.7	2420.7	2420.7	2420.7	2420.7	2420.7	2420.7	2420.7
2.5°	2892.0	2856.0	2867.6	2851.2	2813.5	2757.9	2708.8	2638.4	2568.0	2556.6	2478.0
5°	3273.4	3263.6	3250.5	3203.0	3176.9	3091.8	2990.3	2869.2	2723.5	2697.3	2554.9
7.5°	3533.6	3528.8	3535.3	3510.8	3487.8	3410.9	3302.9	3137.6	2911.7	2897.0	2659.7
10°	3618.7	3631.9	3656.4	3695.7	3731.7	3707.1	3625.3	3419.1	3155.6	3113.0	2779.2
12.5°	3569.6	3584.4	3643.3	3748.1	3864.3	3931.3	3898.6	3748.1	3414.2	3379.8	2913.3
15°	3443.6	3461.6	3545.2	3707.1	3915.0	4104.8	4186.7	4078.7	3715.4	3659.7	3075.4
17.5°	3257.0	3283.3	3402.7	3617.1	3901.9	4229.2	4460.1	4424.0	4036.1	3983.7	3252.1
20°	3116.3	3135.9	3237.4	3482.9	3846.2	4298.0	4720.3	4821.8	4432.2	4342.2	3460.0
22.5°	3209.6	3216.2	3250.5	3397.8	3746.4	4316.0	4949.5	5235.8	4852.8	4772.7	3676.0
25°	3666.3	3600.7	3566.4	3533.6	3725.1	4299.6	5157.3	5667.9	5271.8	5186.7	3890.5
27.5°	4386.4	4356.9	4183.5	3951.0	3906.9	4320.9	5294.8	6077.1	5666.3	5574.7	4100.0
30°	5170.4	5119.6	5013.2	4672.8	4330.7	4471.5	5394.6	6474.9	6132.7	6011.6	4291.5
32.5°	5890.5	5923.2	5764.5	5414.3	5018.2	4792.3	5523.9	6908.6	6668.0	6517.4	4514.1
35°	6730.2	6795.6	6551.7	6216.3	5753.0	5371.7	5776.0	7397.9	7347.2	7157.3	4857.8
37.5°	7582.9	7622.2	7473.2	7001.8	6584.5	6108.2	6250.6	8001.9	8183.5	8021.5	5268.5
40°	8299.7	8353.7	8244.1	7825.1	7379.9	6961.0	6939.7	8659.9	9178.7	9011.7	5880.7
42.5°	8848.1	8888.9	8892.2	8596.0	8195.0	8005.1	7818.5	9499.4	10425.9	10232.7	6591.0
45°	9540.4	9599.3	9564.9	9363.6	9064.1	9029.7	8933.2	10514.3	11918.5	11674.7	7512.5
47.5°	10610.8	10650.1	10565.0	10327.6	10023.2	10077.2	10019.9	11651.7	13440.7	13231.2	8466.7
50°	11353.8	11419.4	11540.5	11635.4	11414.4	11214.7	11044.5	12714.0	14885.9	14697.7	9442.2
52.5°	11345.7	11453.7	11836.7	12314.6	12797.4	12736.9	12247.5	13887.5	16265.6	16033.2	10358.8
55°	10581.3	10790.9	11353.8	12201.6	13538.8	14205.0	13982.4	15246.0	17457.1	17300.0	11420.9
57.5°	9003.6	9131.2	9913.5	11098.5	13124.8	14895.7	15992.3	17087.3	18886.0	18812.3	13070.7
60°	6055.8	6113.1	7119.7	8584.5	11173.8	14206.7	17465.3	19314.8	20645.5	20609.5	14997.1
62.5°	3469.8	3494.4	4224.3	5460.0	7951.2	12039.7	17589.7	22062.9	22755.2	22774.8	17226.4
65°	1867.5	1880.6	2469.8	3204.7	4838.1	8581.3	15817.2	23568.6	24460.7	24498.2	18607.8
66°	1612.2	1550.0	1965.7	2731.7	3849.5	6830.0	14696.1	23514.6	24788.0	24747.1	18558.7
67.5°	1225.9	1281.5	1569.6	2099.9	2852.8	4856.1	12132.9	22468.7	24539.2	24411.5	17804.1
70°	877.2	900.2	1117.9	1497.6	1942.8	2664.5	7753.1	18661.8	22303.5	22131.6	15511.1
72.5°	566.3	590.9	792.1	1083.5	1404.3	1455.0	4340.6	13483.2	17195.3	17170.7	11681.2
75°	404.3	427.1	523.8	775.8	1055.7	900.2	2090.1	9087.0	10931.6	10857.9	7226.0
77.5°	293.0	304.4	350.3	507.4	754.5	644.9	968.9	4852.8	5442.0	5699.0	3193.2
80°	168.6	178.4	243.9	309.3	510.7	440.3	463.2	1947.7	2008.2	1911.7	998.4
82.5°	83.5	94.9	145.7	211.2	319.2	296.3	212.8	585.9	618.6	602.3	252.0
85°	19.7	24.6	81.8	139.1	155.5	132.5	103.1	171.8	212.8	207.9	96.5
87.5°	1.6	3.3	29.4	24.6	26.2	44.2	36.0	44.2	68.7	63.8	34.4
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°	2420.7	2420.7	2420.7	2420.7	2420.7	2420.7	2420.7	2420.7	2420.7	2420.7	2420.7
2.5°	2442.0	2410.9	2320.8	2232.4	2158.8	2081.9	2011.5	1970.6	1954.2	1936.2	1944.4
5°	2476.3	2401.1	2219.4	2062.2	1908.4	1777.5	1672.7	1605.6	1572.8	1568.0	1559.8
7.5°	2522.2	2392.9	2111.3	1865.8	1664.5	1518.8	1399.4	1302.8	1273.4	1247.2	1225.9
10°	2577.8	2378.2	1977.1	1659.6	1445.2	1261.9	1104.7	990.2	931.3	914.9	926.4
12.5°	2636.7	2350.3	1836.4	1469.7	1222.6	988.6	842.9	785.7	769.3	762.7	764.4
15°	2695.7	2315.9	1689.1	1286.5	973.9	788.9	721.8	707.0	700.6	697.3	694.0
17.5°	2749.6	2260.3	1523.8	1108.0	788.9	674.3	649.8	636.7	623.6	618.6	610.5
20°	2813.5	2196.4	1374.9	908.4	667.8	610.5	581.0	556.5	536.8	523.8	522.1
22.5°	2874.0	2114.6	1219.4	752.9	608.9	548.3	500.8	474.7	451.7	435.4	440.3
25°	2906.8	2014.8	1080.3	656.3	554.8	486.1	433.7	401.0	376.4	368.3	366.6
27.5°	2906.8	1892.0	944.4	600.6	505.8	430.4	376.4	345.3	329.0	317.6	319.2
30°	2883.9	1756.2	818.4	558.1	463.2	381.4	330.6	302.8	289.7	281.5	279.9
32.5°	2865.9	1626.9	710.3	517.2	419.0	338.8	294.6	273.3	260.2	252.0	252.0
35°	2893.7	1515.6	626.9	476.3	378.1	306.0	266.8	247.2	234.1	227.5	225.9
37.5°	2967.4	1414.1	563.0	432.1	340.4	278.2	247.2	224.2	211.2	202.9	199.7
40°	3149.0	1356.9	515.5	391.1	304.4	255.3	224.2	202.9	186.6	178.4	176.8
42.5°	3440.4	1358.5	469.7	353.6	276.6	235.6	204.6	180.1	162.1	153.8	152.2
45°	3879.0	1420.7	433.7	317.6	252.0	214.4	183.3	157.1	140.8	132.5	132.5
47.5°	4404.4	1541.8	402.7	286.4	229.2	194.8	162.1	135.8	119.5	112.9	112.9
50°	4973.9	1698.9	371.6	253.7	209.5	173.5	139.1	117.8	104.8	99.8	99.8
52.5°	5555.0	1888.8	340.4	227.5	188.2	150.5	119.5	104.8	93.3	90.0	88.4
55°	6317.7	2131.0	307.7	199.7	165.3	129.3	106.4	91.7	78.5	73.7	72.0
57.5°	7491.2	2496.0	271.7	175.1	135.8	108.0	91.7	77.0	62.2	54.0	52.4
60°	8906.9	2941.1	234.1	153.8	109.7	88.4	73.7	59.0	45.8	36.0	34.4
62.5°	10232.7	3224.3	198.1	129.3	86.7	67.1	52.4	44.2	32.7	22.9	21.3
65°	10818.6	3129.4	163.7	104.8	68.7	47.4	34.4	31.1	19.7	9.8	8.2
66°	10623.8	2988.7	150.5	94.9	62.2	41.0	29.4	26.2	14.7	4.9	4.9
67.5°	10049.4	2656.4	130.9	81.8	54.0	32.7	22.9	19.7	8.2	1.6	0.0
70°	8610.7	2149.0	103.1	60.6	39.3	22.9	13.1	9.8	4.9	0.0	0.0
72.5°	6614.0	1600.7	81.8	45.8	27.8	13.1	6.6	3.3	4.9	0.0	0.0
75°	4052.5	914.9	63.8	34.4	18.0	8.2	4.9	0.0	4.9	1.6	0.0
77.5°	1798.7	410.8	42.6	22.9	13.1	6.6	3.3	0.0	3.3	1.6	0.0
80°	455.0	134.2	24.6	16.4	9.8	4.9	1.6	0.0	3.3	3.3	1.6
82.5°	124.4	49.1	18.0	13.1	8.2	4.9	1.6	0.0	3.3	3.3	3.3
85°	49.1	22.9	16.4	13.1	9.8	4.9	1.6	0.0	3.3	3.3	3.3
87.5°	22.9	16.4	16.4	14.7	11.4	4.9	1.6	0.0	3.3	1.6	3.3
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)