

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: P456274

Luminaire Tested: **GALN-SA7C-730-U-T3R-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P456274  
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-SA7C-730-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3000K, 1050mA 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: 34916 lumens  
Efficiency: N/A  
Efficacy: 92.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G5

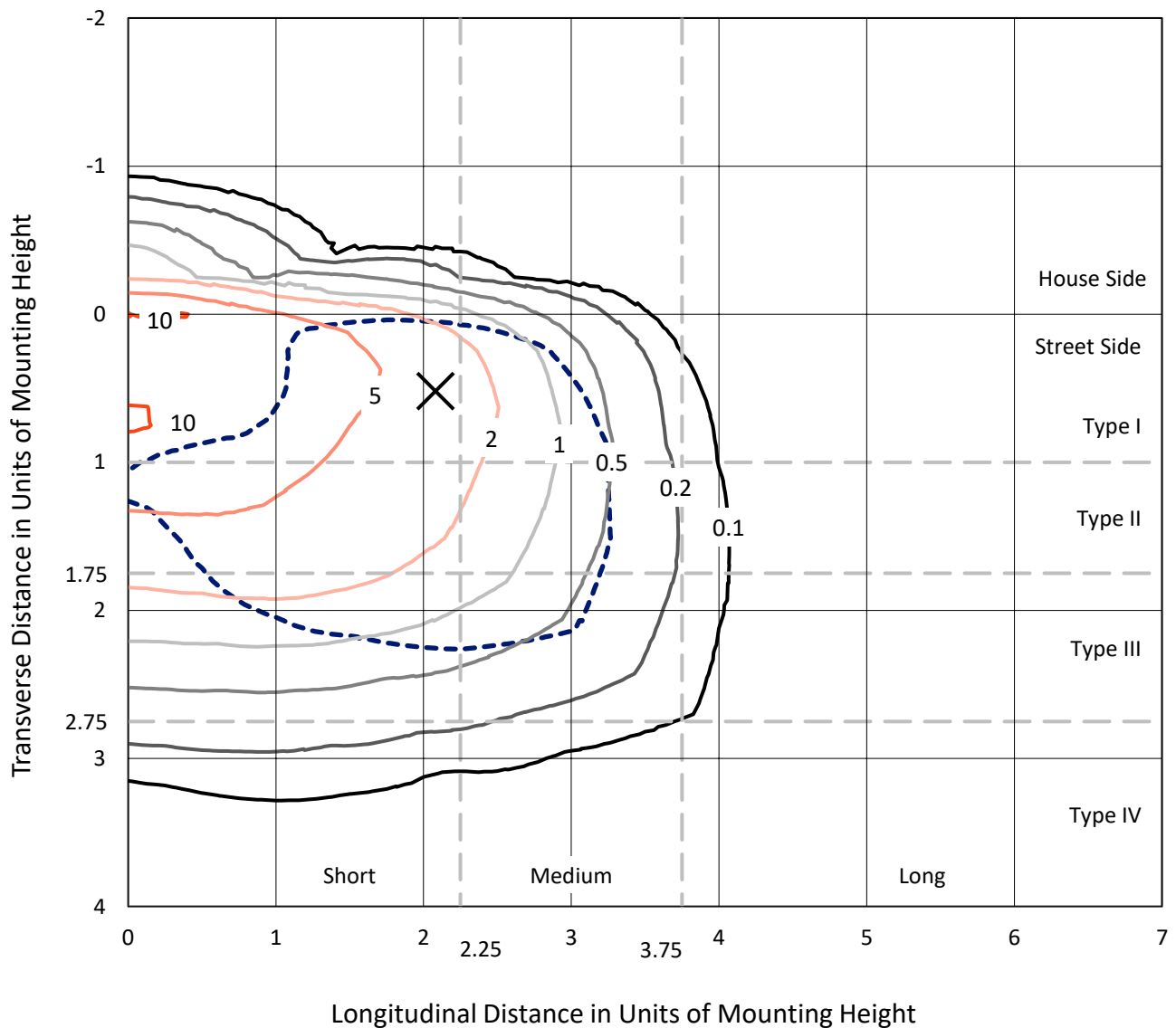
Input Watts (W): 377  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

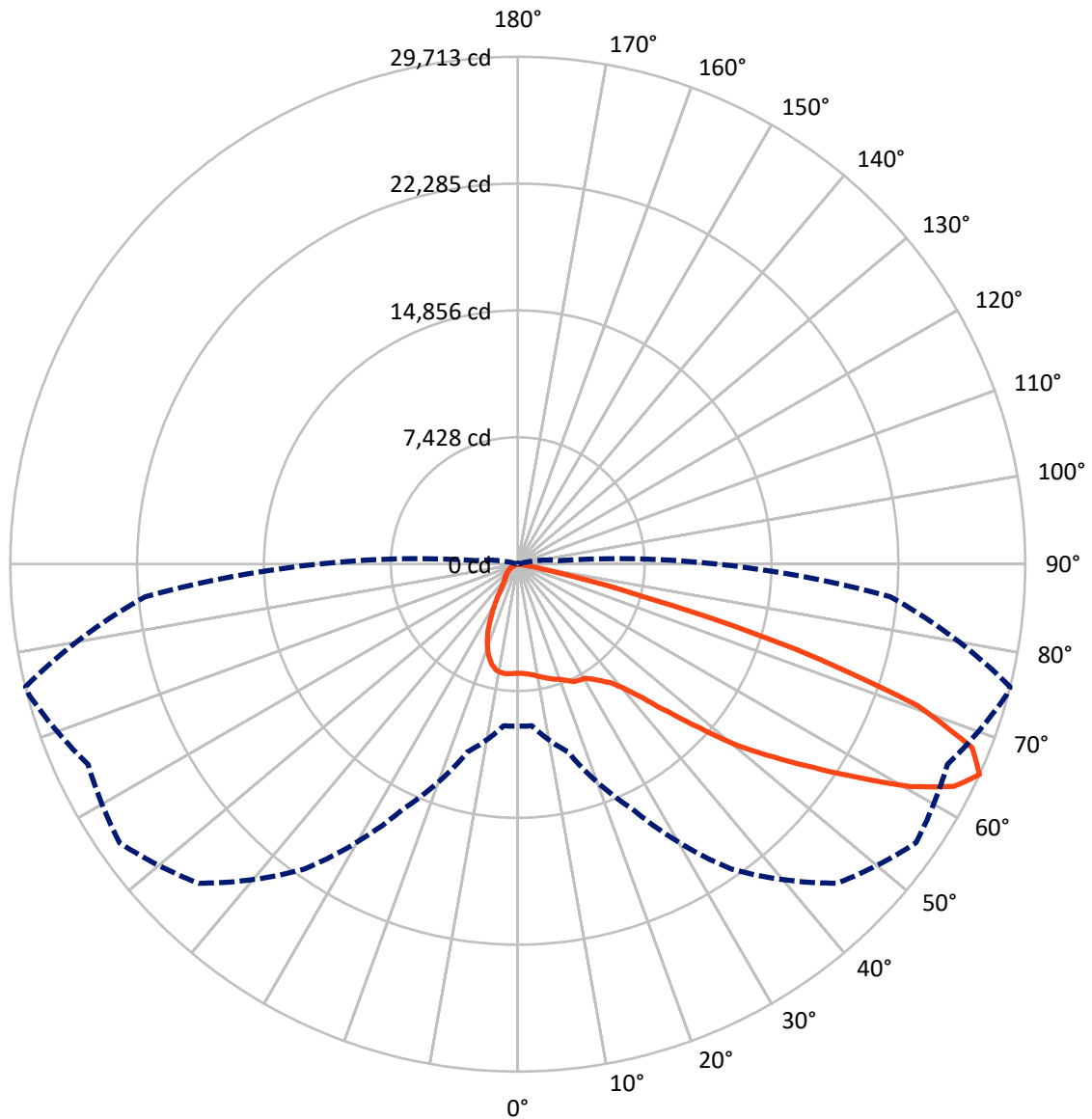
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.7 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



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

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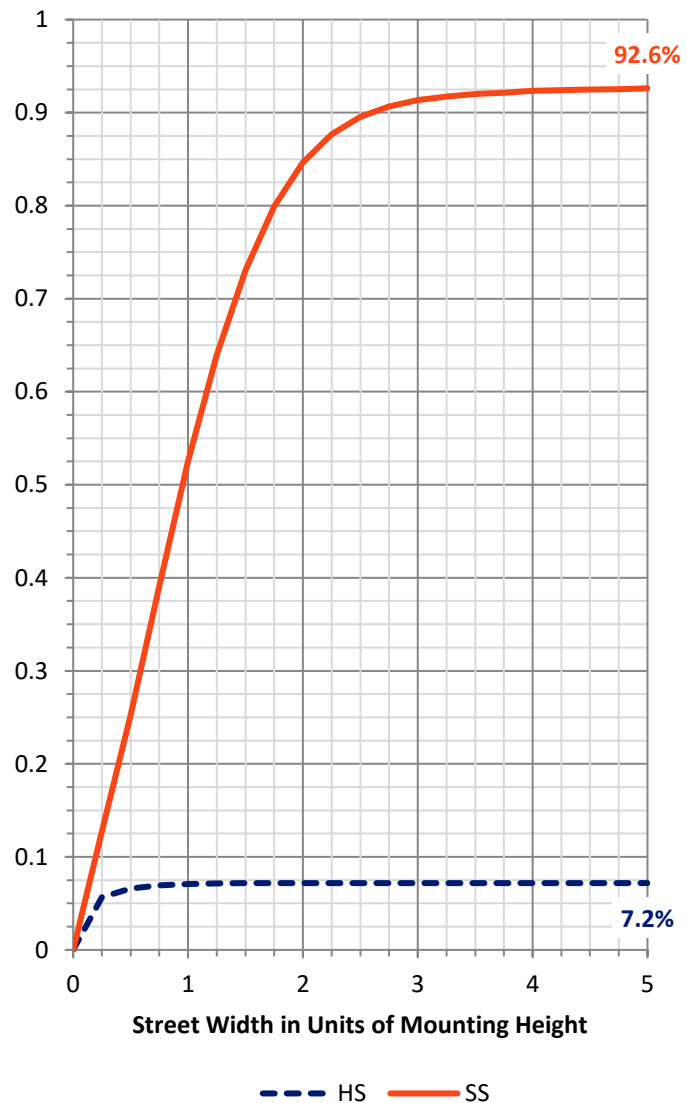
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2521.6	0.0	2521.6
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	32394.4	0.0	32394.4
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	34916.0	0.0	34916.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	526.2	1.5
10°-20°	1171.5	3.4
20°-30°	1887.8	5.4
30°-40°	3282.5	9.4
40°-50°	5424.1	15.5
50°-60°	8379.0	24.0
60°-70°	10232.0	29.3
70°-80°	3883.3	11.1
80°-90°	129.6	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°	34916.0	100.0
0°-180°	34916.0	100.0



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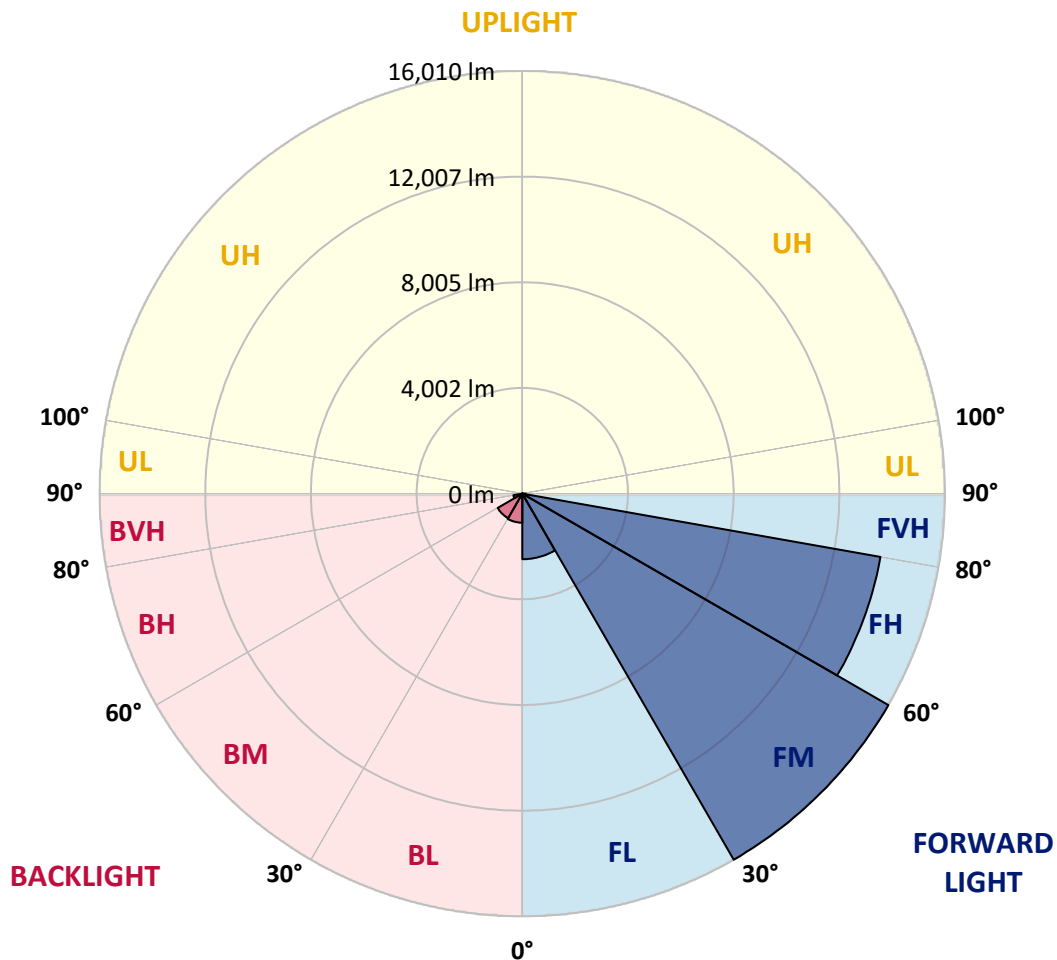
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2483.9	7.1			
FM (30°-60°)	16009.5	45.9			
FH (60°-80°)	13773.2	39.4			G5
FVH (80°-90°)	127.8	0.4			G2/225
BL (0°-30°)	1101.6	3.2	B3/2500		
BM (30°-60°)	1076.1	3.1	B2/2500		
BH (60°-80°)	342.2	1.0	B1/500		G1/500
BVH (80°-90°)	1.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	6387.3	6387.3	6387.3	6387.3	6387.3	6387.3	6387.3	6387.3	6387.3	6387.3	6387.3
2.5°	6103.8	6106.2	6121.0	6158.0	6214.7	6261.5	6301.0	6365.1	6409.4	6414.4	6429.2
5°	5682.2	5652.6	5682.2	5778.4	5864.6	5995.3	6155.5	6315.8	6458.7	6468.6	6537.6
7.5°	5208.9	5233.6	5280.4	5379.0	5541.7	5741.4	5973.1	6259.1	6530.2	6554.9	6690.5
10°	4728.2	4782.4	4858.8	5009.2	5236.0	5494.9	5810.4	6219.6	6643.6	6678.1	6912.3
12.5°	4284.5	4309.1	4402.8	4604.9	4886.0	5250.8	5687.1	6197.4	6769.4	6811.3	7149.0
15°	3944.3	3976.3	4057.7	4240.1	4553.2	5021.5	5586.1	6190.0	6892.6	6951.8	7385.6
17.5°	3880.2	3899.9	3934.4	4057.7	4331.3	4839.1	5494.9	6187.6	7010.9	7082.4	7605.0
20°	4143.9	4126.7	4092.2	4079.9	4230.2	4698.6	5428.3	6207.3	7124.3	7205.7	7836.8
22.5°	4804.6	4826.8	4624.7	4385.5	4336.2	4676.4	5418.4	6301.0	7304.3	7400.4	8095.6
25°	6207.3	6037.2	5721.7	5149.7	4718.3	4812.0	5529.4	6522.8	7513.8	7619.8	8329.8
27.5°	7757.9	7706.1	7215.5	6273.9	5470.2	5098.0	5726.6	6692.9	7582.9	7691.3	8462.9
30°	9281.4	9343.0	8780.9	7740.6	6562.3	5628.0	5911.5	6757.0	7644.5	7757.9	8633.0
32.5°	10693.9	10767.9	10274.8	9244.4	7849.1	6545.0	6229.5	7006.0	7903.3	8019.2	8916.5
35°	11805.7	11815.6	11443.3	10622.4	9254.2	7659.3	6917.3	7442.3	8253.4	8389.0	9217.3
37.5°	12826.3	12811.5	12375.1	11667.6	10425.2	8766.1	7782.5	7945.2	8652.7	8793.3	9651.1
40°	13583.1	13592.9	13452.4	12786.8	11517.3	9789.2	8467.9	8416.1	9323.3	9542.7	10282.2
42.5°	14088.4	14179.6	14248.7	13910.9	12890.4	11048.9	9520.5	9424.3	10486.8	10669.2	11174.6
45°	14497.7	14660.4	15005.5	14988.2	14209.2	12594.5	10965.1	10767.9	12136.0	12330.8	12311.0
47.5°	14795.9	14961.1	15533.0	15878.1	15449.2	14093.4	12781.9	12611.8	14105.7	14317.7	13565.8
50°	14948.8	15146.0	15875.7	16543.7	16418.0	15538.0	14852.6	14862.5	16484.6	16689.2	15020.3
52.5°	14591.3	14847.7	16058.1	17261.1	17505.2	16920.9	16792.7	17118.1	18602.2	18777.2	16334.2
55°	13450.0	13772.9	15809.1	17872.5	18764.9	18552.9	18996.6	19492.1	20917.0	21030.3	17682.7
57.5°	12727.7	13070.3	15074.5	18392.6	20278.5	20603.9	21306.4	21668.8	23305.7	23594.1	19230.8
60°	12118.8	12387.5	14470.5	18503.6	21816.7	23113.4	23796.3	24171.0	26254.0	26441.4	20934.2
62.5°	11105.6	11413.7	13450.0	17729.5	22590.8	25122.5	26537.5	26369.9	28534.3	28665.0	21979.4
65°	9476.1	9503.2	11379.2	15784.5	21792.1	26426.6	28462.8	27760.3	29623.9	29712.7	21898.1
67.5°	7072.6	7333.9	8753.8	12407.2	18407.4	25312.3	29086.5	27797.2	28936.1	28689.6	20160.1
70°	4555.6	4755.3	5933.7	8603.4	13272.5	21124.0	27018.2	25891.7	25396.2	24848.9	16501.8
72.5°	2102.8	2359.2	3525.2	4915.5	7871.3	15047.4	21932.6	21035.3	18279.2	16928.3	10489.3
75°	917.0	981.1	1740.4	2593.4	3690.4	7957.6	14460.7	13058.0	8255.8	7540.9	4198.2
77.5°	559.6	601.5	912.1	1390.4	1449.5	3032.2	7789.9	5697.0	2551.4	2250.7	1138.9
80°	379.6	426.5	663.1	727.2	495.5	845.6	2923.7	1521.0	515.2	493.0	244.1
82.5°	184.9	234.2	490.6	406.8	214.5	271.2	850.5	325.4	150.4	140.5	86.3
85°	27.1	46.8	276.1	266.2	96.1	64.1	150.4	81.4	51.8	49.3	39.4
87.5°	0.0	0.0	93.7	41.9	9.9	9.9	17.3	17.3	19.7	17.3	19.7
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°	6387.3	6387.3	6387.3	6387.3	6387.3	6387.3	6387.3	6387.3	6387.3	6387.3	6387.3
2.5°	6436.6	6448.9	6402.0	6335.5	6264.0	6192.5	6091.4	6000.2	5946.0	5978.0	5899.1
5°	6552.4	6542.6	6419.3	6217.2	5948.5	5625.5	5305.0	5031.4	4942.7	4809.5	4794.8
7.5°	6712.7	6685.5	6424.2	5960.8	5354.3	4747.9	4156.3	3764.3	3540.0	3350.2	3355.1
10°	6937.0	6858.1	6367.5	5509.7	4511.3	3596.7	2842.3	2324.7	2100.3	2028.8	1972.1
12.5°	7168.7	7015.9	6209.8	4900.8	3512.9	2457.8	1728.1	1412.5	1274.5	1230.1	1225.2
15°	7375.8	7134.2	5933.7	4168.6	2553.9	1570.3	1178.4	1074.8	1057.6	1060.0	1057.6
17.5°	7580.4	7227.9	5551.6	3392.1	1735.5	1126.6	1013.2	988.5	995.9	1005.8	1003.3
20°	7750.5	7247.6	5063.5	2588.4	1227.7	988.5	951.6	946.6	954.0	961.4	961.4
22.5°	7935.4	7262.4	4484.1	1792.2	1003.3	919.5	899.8	899.8	909.6	919.5	922.0
25°	8073.4	7181.0	3791.4	1286.8	885.0	852.9	843.1	845.6	855.4	860.3	857.9
27.5°	8095.6	6951.8	3056.8	986.1	803.6	771.6	761.7	771.6	759.3	766.7	761.7
30°	8115.3	6660.9	2312.3	830.8	729.7	680.4	665.6	650.8	640.9	628.6	626.2
32.5°	8177.0	6318.2	1688.6	746.9	660.7	606.4	571.9	530.0	498.0	488.1	485.6
35°	8204.1	5906.5	1240.0	680.4	599.0	539.9	478.2	419.1	372.2	355.0	367.3
37.5°	8307.6	5507.2	961.4	631.1	544.8	470.8	392.0	318.0	273.6	263.8	268.7
40°	8519.6	5073.3	806.1	589.2	498.0	406.8	310.6	239.1	209.5	199.7	197.2
42.5°	8859.8	4641.9	717.4	549.7	451.1	342.7	244.1	187.4	162.7	155.3	155.3
45°	9274.0	4227.8	655.7	507.8	401.8	276.1	192.3	150.4	135.6	130.7	130.7
47.5°	9818.8	3865.4	604.0	465.9	347.6	219.4	155.3	130.7	120.8	123.3	125.7
50°	10371.0	3596.7	547.3	419.1	286.0	180.0	133.1	115.9	113.4	115.9	115.9
52.5°	10787.6	3438.9	470.8	355.0	224.3	150.4	118.3	108.5	106.0	101.1	101.1
55°	11349.6	3404.4	374.7	288.4	177.5	125.7	106.0	98.6	91.2	86.3	83.8
57.5°	12071.9	3443.8	288.4	224.3	138.0	103.5	93.7	81.4	71.5	61.6	61.6
60°	12520.6	3355.1	224.3	172.6	101.1	83.8	71.5	59.2	46.8	39.4	37.0
62.5°	12377.6	2980.4	177.5	128.2	71.5	61.6	46.8	39.4	27.1	19.7	17.3
65°	11640.5	2406.0	143.0	88.7	51.8	37.0	24.7	24.7	12.3	2.5	0.0
67.5°	10188.5	1782.3	113.4	59.2	29.6	17.3	12.3	7.4	0.0	0.0	0.0
70°	8292.8	1286.8	88.7	37.0	17.3	12.3	4.9	2.5	0.0	0.0	0.0
72.5°	5265.6	737.1	69.0	22.2	12.3	4.9	0.0	0.0	0.0	0.0	0.0
75°	2036.2	288.4	46.8	14.8	4.9	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	576.8	135.6	27.1	7.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	150.4	59.2	14.8	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	71.5	24.7	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	41.9	9.9	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	19.7	2.5	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)