

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: P650928

Luminaire Tested: **GALN-SA5C-840-U-T3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P650928  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)  
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-T3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 21739 lumens  
Efficiency: N/A  
Efficacy: 80.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3

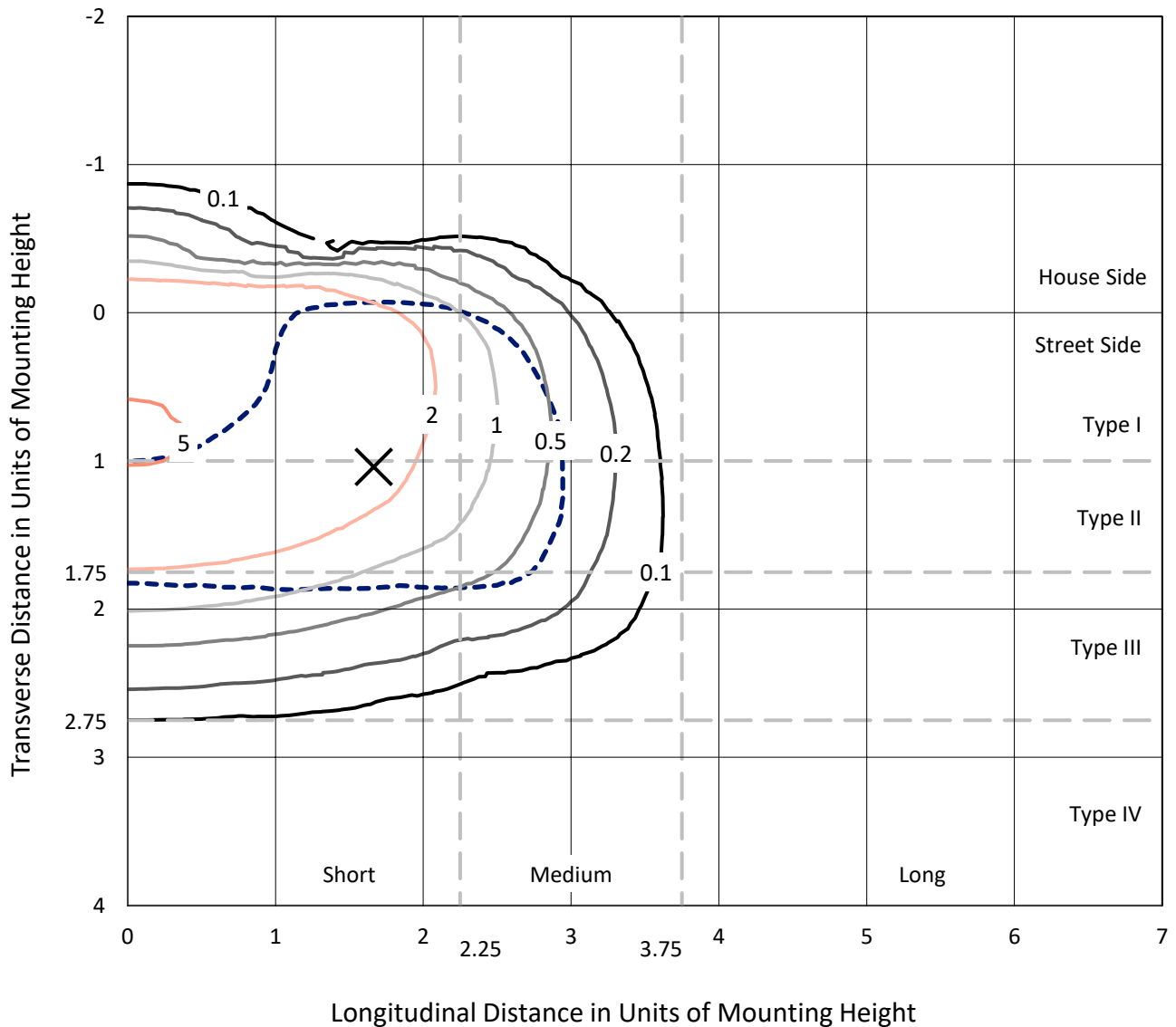
Input Watts (W): 269  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

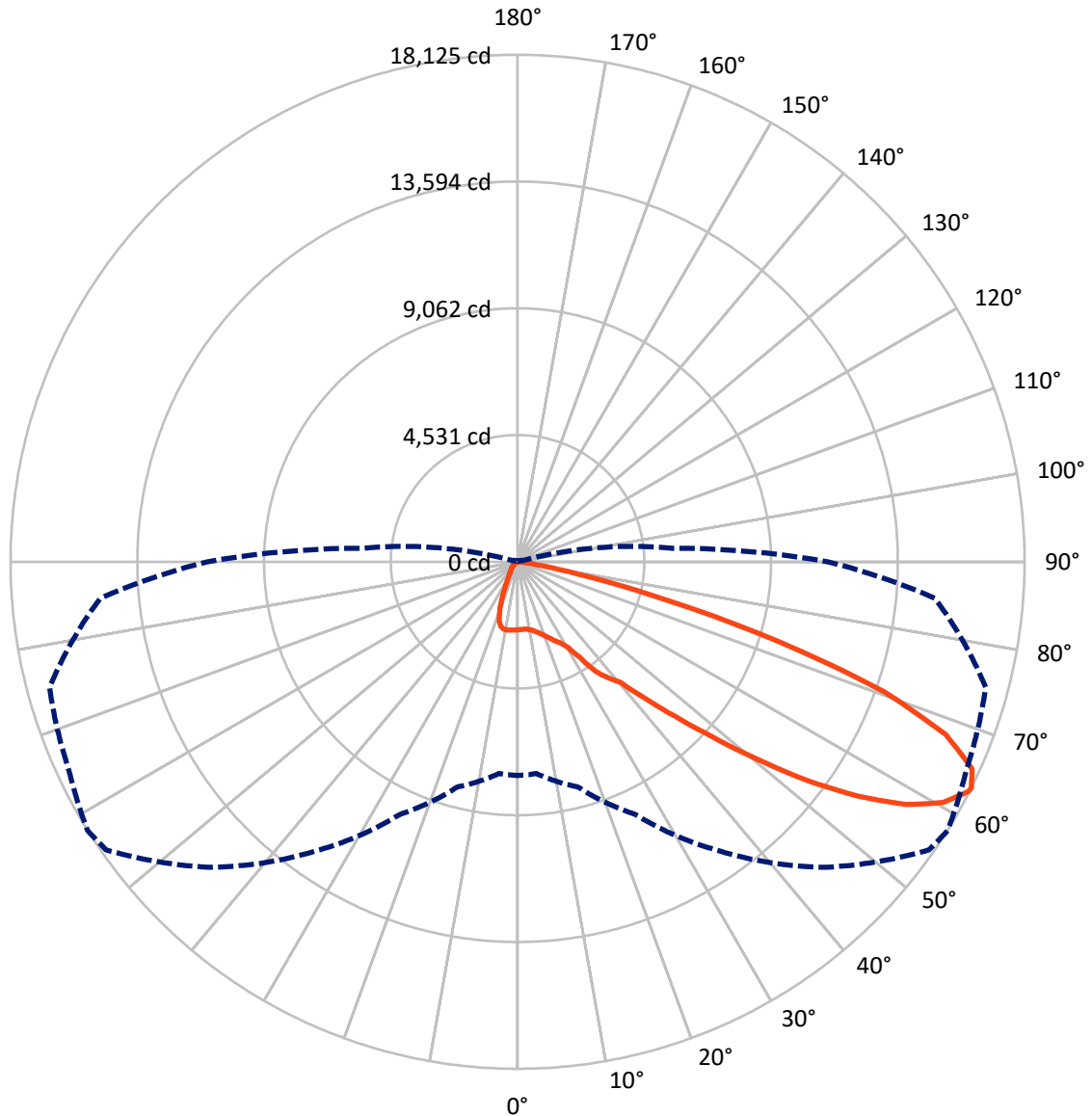
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral      - - - Horizontal Cone Through 63-Deg Vertical

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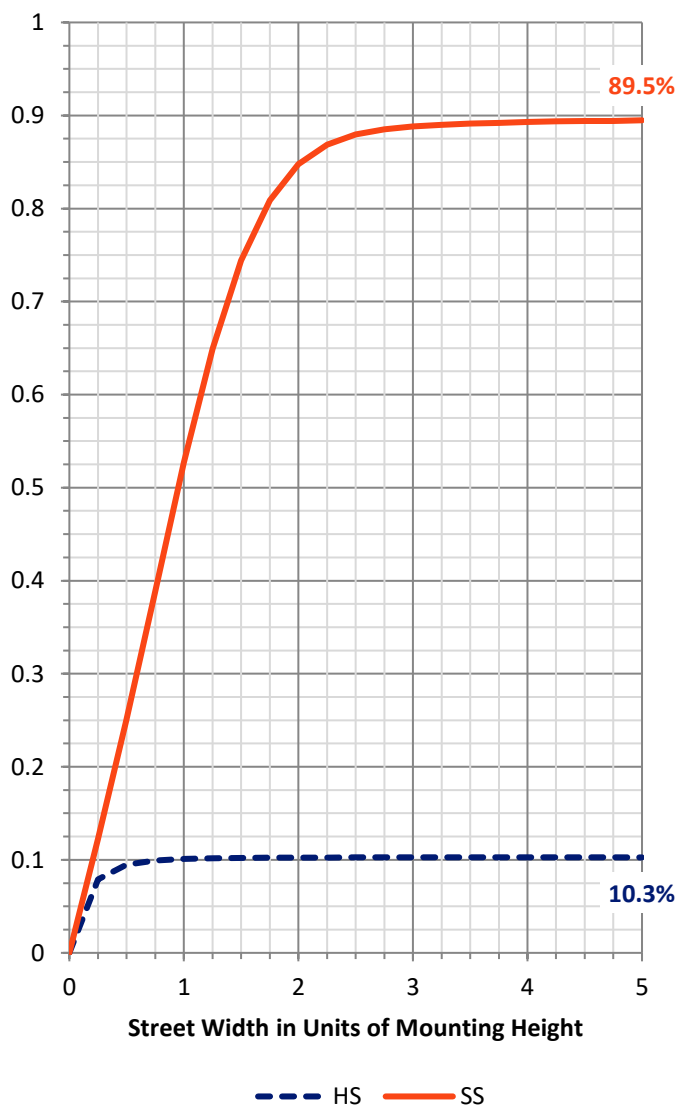
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2250.9	0.0	2250.9
	% Fixture	10.4	0.0	10.4
<b>Street Side</b>	Lumens	19488.1	0.0	19488.1
	% Fixture	89.6	0.0	89.6
<b>Total</b>	Lumens	21739.0	0.0	21739.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	227.8	1.0
10°-20°	620.5	2.9
20°-30°	1077.0	5.0
30°-40°	1979.1	9.1
40°-50°	3725.5	17.1
50°-60°	6372.2	29.3
60°-70°	6101.4	28.1
70°-80°	1555.9	7.2
80°-90°	79.6	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°	21739.0	100.0
0°-180°	21739.0	100.0

**Coefficient of Utilization**

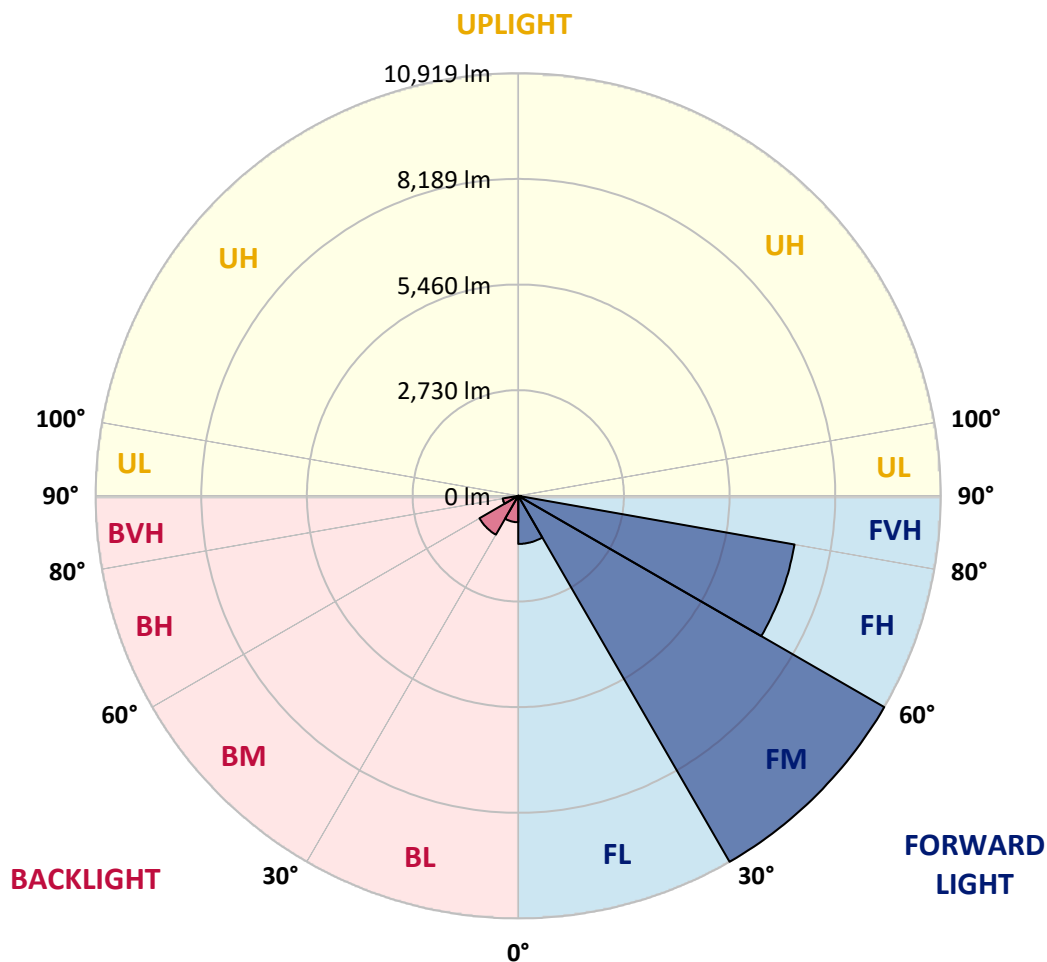


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1242.7	5.7			
FM (30°-60°)	10919.1	50.2			
FH (60°-80°)	7249.8	33.3			G3/7500
FVH (80°-90°)	76.5	0.4			G1/100
BL (0°-30°)	682.6	3.1	B2/1000		
BM (30°-60°)	1157.8	5.3	B2/2500		
BH (60°-80°)	407.5	1.9	B1/500		G1/500
BVH (80°-90°)	3.1	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2433.8	2433.8	2433.8	2433.8	2433.8	2433.8	2433.8	2433.8	2433.8	2433.8	2433.8
2.5°	2373.2	2381.4	2389.6	2392.8	2404.3	2415.8	2423.9	2422.3	2435.4	2441.9	2441.9
5°	2278.3	2278.3	2299.5	2319.2	2351.9	2384.7	2415.8	2422.3	2446.9	2469.8	2477.9
7.5°	2198.1	2203.0	2219.4	2255.4	2299.5	2356.8	2419.1	2433.8	2476.3	2527.0	2548.3
10°	2160.4	2163.7	2185.0	2222.6	2278.3	2356.8	2443.6	2471.4	2536.9	2617.1	2646.5
12.5°	2152.3	2157.2	2178.4	2221.0	2284.8	2379.8	2497.6	2527.0	2622.0	2725.1	2769.3
15°	2167.0	2170.3	2191.6	2237.4	2307.7	2420.7	2569.6	2610.5	2723.5	2842.9	2900.2
17.5°	2219.4	2216.1	2230.8	2268.4	2347.1	2471.4	2656.4	2705.5	2838.0	3001.7	3039.4
20°	2441.9	2420.7	2407.6	2374.8	2405.9	2543.4	2761.1	2833.2	2996.8	3163.8	3189.9
22.5°	2921.5	2874.0	2780.8	2653.1	2554.9	2641.7	2887.2	2970.6	3181.8	3345.4	3345.4
25°	3531.9	3471.4	3378.1	3099.9	2859.3	2803.6	3029.5	3134.2	3383.1	3548.3	3494.4
27.5°	4296.3	4248.9	4067.2	3743.1	3374.8	3086.8	3194.8	3291.4	3561.5	3761.1	3648.2
30°	4918.3	4895.4	4746.4	4456.7	4050.8	3630.2	3502.5	3566.3	3798.8	4029.6	3913.3
32.5°	5443.6	5443.6	5291.4	5021.4	4641.6	4268.5	4024.6	4070.4	4293.1	4559.8	4343.8
35°	6021.4	6001.8	5879.0	5622.1	5196.5	4867.5	4767.7	4829.9	5031.2	5229.3	4697.3
37.5°	6628.6	6622.0	6494.4	6245.6	5898.7	5484.6	5250.5	5266.8	5370.0	5491.1	5111.4
40°	7288.2	7298.0	7131.1	6977.3	6649.9	6226.0	5777.5	5674.4	5771.0	6113.1	5875.7
42.5°	8067.3	8044.3	7972.3	7762.9	7499.4	7245.6	6707.1	6669.6	6754.7	7121.3	6864.3
45°	8972.4	9005.1	8880.7	8764.5	8587.7	8376.6	7926.5	7861.1	7954.3	8523.9	8159.0
47.5°	9879.1	9848.0	9928.2	9906.9	10001.8	9844.7	9447.0	9312.8	9537.0	10077.1	9540.3
50°	10569.8	10604.2	10771.1	11015.0	11422.5	11510.9	11129.5	11083.7	11183.5	11530.5	10776.0
52.5°	11018.2	11132.8	11394.7	12021.5	12756.4	13327.6	13037.9	13013.4	12972.4	13065.8	11957.7
55°	11311.2	11427.4	11769.5	12692.5	13957.7	14885.8	14900.5	14795.7	14525.7	14458.6	13062.5
57.5°	11131.1	11154.1	11641.8	12875.9	14623.9	15997.1	16478.2	16373.5	15874.3	15620.6	14038.0
60°	10005.1	10052.6	10731.8	12181.9	14334.2	16360.4	17524.1	17476.7	16930.0	16643.6	14797.4
62.5°	8010.0	8147.4	8846.3	10463.4	12987.1	15748.3	17948.0	18082.2	17656.7	17262.2	15036.3
63°	7643.3	7599.2	8337.3	9962.6	12630.4	15445.5	17954.5	18124.7	17689.4	17321.2	14970.9
65°	5658.1	5790.6	6270.2	7856.1	10510.8	14036.3	17550.3	17851.4	17568.3	17060.9	14245.8
67.5°	3176.8	3170.3	3700.6	5140.9	7357.0	11010.0	15869.4	16506.1	16447.2	15309.6	11808.7
70°	1554.8	1579.4	1797.1	2664.5	4266.9	7595.9	13186.9	13874.2	13895.5	12024.8	8165.4
72.5°	703.7	715.3	870.7	1297.9	2193.2	4044.3	9086.9	9743.2	9622.1	7663.0	4509.1
75°	371.6	396.1	479.5	653.0	1057.3	1667.8	4942.8	5577.8	5324.2	3500.9	1659.6
77.5°	274.9	283.2	325.7	415.7	566.3	649.8	2132.6	2536.9	2376.5	1266.8	549.9
80°	201.3	207.9	242.2	294.6	356.8	330.6	803.6	921.5	826.5	430.4	168.6
82.5°	122.8	124.4	176.8	219.3	224.2	184.9	265.2	284.8	297.9	242.2	91.7
85°	44.2	55.7	119.5	158.8	132.5	93.3	111.3	122.8	134.2	153.8	54.0
87.5°	4.9	6.6	57.3	77.0	37.7	34.4	41.0	45.8	49.1	57.3	26.2
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°	2433.8	2433.8	2433.8	2433.8	2433.8	2433.8	2433.8	2433.8	2433.8	2433.8	2433.8
2.5°	2448.5	2455.0	2450.2	2441.9	2440.3	2435.4	2425.6	2425.6	2425.6	2428.9	2425.6
5°	2484.5	2489.4	2477.9	2461.6	2443.6	2420.7	2396.1	2381.4	2379.8	2376.5	2368.3
7.5°	2553.3	2559.8	2533.6	2494.3	2445.2	2389.6	2337.2	2288.1	2265.1	2247.2	2247.2
10°	2653.1	2659.7	2607.3	2536.9	2438.6	2325.8	2201.3	2088.5	2000.1	1959.1	1949.3
12.5°	2772.5	2775.8	2689.1	2566.3	2404.3	2186.6	1921.5	1674.3	1502.4	1423.9	1415.7
15°	2903.5	2880.6	2766.0	2577.8	2306.1	1900.2	1441.9	1139.1	960.8	908.4	928.0
17.5°	3036.1	2993.5	2824.9	2559.8	2085.2	1441.9	968.9	777.4	721.7	707.0	707.0
20°	3160.5	3101.5	2867.5	2481.2	1702.2	993.5	718.6	672.7	662.9	653.0	654.7
22.5°	3284.9	3194.8	2905.2	2306.1	1268.5	710.3	643.2	628.5	615.4	602.3	600.6
25°	3406.0	3281.6	2919.9	1982.1	864.2	610.5	587.6	567.9	541.8	527.1	523.8
27.5°	3531.9	3386.3	2910.0	1572.8	630.2	546.6	523.8	495.9	464.8	438.7	438.7
30°	3774.2	3586.0	2875.7	1131.0	530.3	481.2	451.7	407.5	373.2	347.0	345.3
32.5°	4104.8	3846.2	2757.8	795.4	471.4	423.9	379.7	330.6	294.6	274.9	274.9
35°	4399.4	4108.1	2536.9	585.9	423.9	368.3	314.3	266.8	238.9	225.9	220.9
37.5°	4847.9	4491.1	2232.4	476.3	378.1	319.2	263.5	219.3	196.4	186.6	186.6
40°	5520.6	4959.2	1859.3	417.4	333.9	271.7	219.3	184.9	166.9	155.5	155.5
42.5°	6355.3	5532.0	1481.2	374.8	293.0	234.1	183.3	157.1	140.8	132.5	130.9
45°	7406.0	6135.9	1140.8	335.6	260.2	199.7	155.5	132.5	116.2	111.3	112.9
47.5°	8502.6	6667.9	883.8	301.2	225.9	168.6	132.5	114.5	103.1	96.5	96.5
50°	9438.8	7034.5	671.0	261.9	199.7	142.4	116.2	103.1	93.3	90.0	88.4
52.5°	10221.2	7140.9	513.9	227.5	175.1	122.8	103.1	93.3	85.1	80.2	80.2
55°	10887.3	7047.6	402.6	191.5	147.3	106.4	91.7	83.5	73.7	68.7	67.1
57.5°	11276.8	6748.1	307.7	158.8	119.5	88.4	80.2	70.4	59.0	50.7	50.7
60°	11473.3	6312.7	235.6	130.9	91.7	70.4	65.4	52.4	41.0	34.4	32.7
62.5°	11237.5	5734.9	178.4	103.1	68.7	52.4	44.2	37.7	26.2	19.7	19.7
63°	11091.9	5568.0	171.8	98.2	63.8	49.1	41.0	34.4	22.9	18.0	16.4
65°	10111.5	4839.7	140.8	78.5	50.7	34.4	27.8	24.6	16.4	8.2	6.6
67.5°	8029.6	3702.2	111.3	59.0	36.0	24.6	16.4	14.7	4.9	0.0	0.0
70°	5428.9	2391.2	86.7	42.6	24.6	14.7	8.2	6.6	1.6	0.0	0.0
72.5°	2831.5	1225.9	67.1	31.1	14.7	9.8	4.9	1.6	0.0	0.0	0.0
75°	1001.6	417.4	49.1	19.7	9.8	4.9	1.6	0.0	0.0	0.0	0.0
77.5°	302.8	155.5	31.1	14.7	6.6	3.3	0.0	0.0	0.0	0.0	0.0
80°	106.4	57.3	18.0	9.8	4.9	1.6	0.0	0.0	0.0	0.0	0.0
82.5°	52.4	27.8	11.4	8.2	4.9	1.6	0.0	0.0	0.0	0.0	0.0
85°	29.4	18.0	9.8	8.2	4.9	3.3	0.0	0.0	0.0	0.0	0.0
87.5°	21.3	13.1	9.8	8.2	6.6	3.3	1.6	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)