

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: P652476

Luminaire Tested: **GALN-SA6B-840-U-T4W-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652476  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6B-840-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20528 lumens  
Efficiency: N/A  
Efficacy: 84.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4

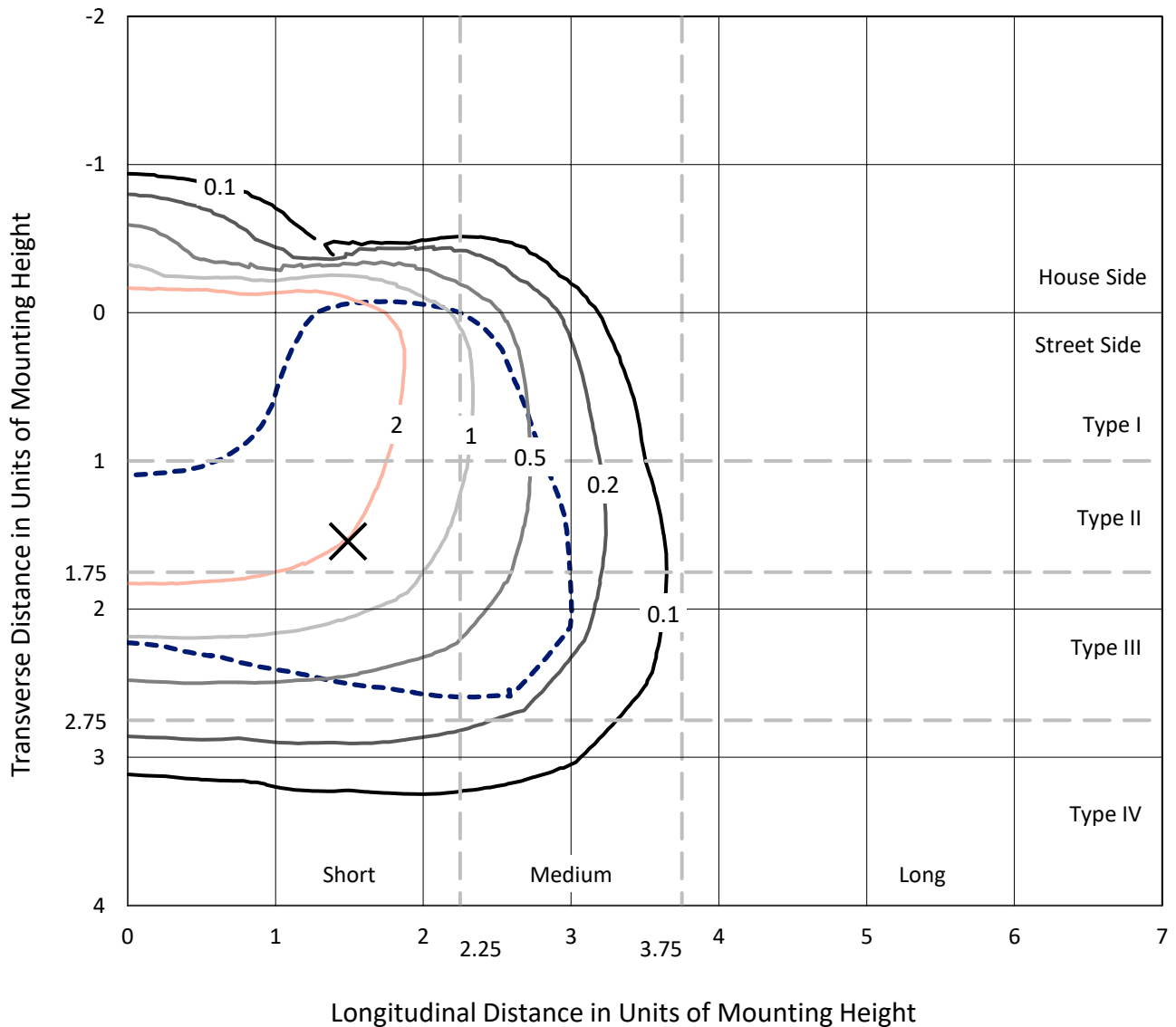
Input Watts (W): 243  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P652476  
 CATALOG NUMBER: GALN-SA6B-840-U-T4W-HSS

### Iso-Footcandle Lines of Horizontal Illumination

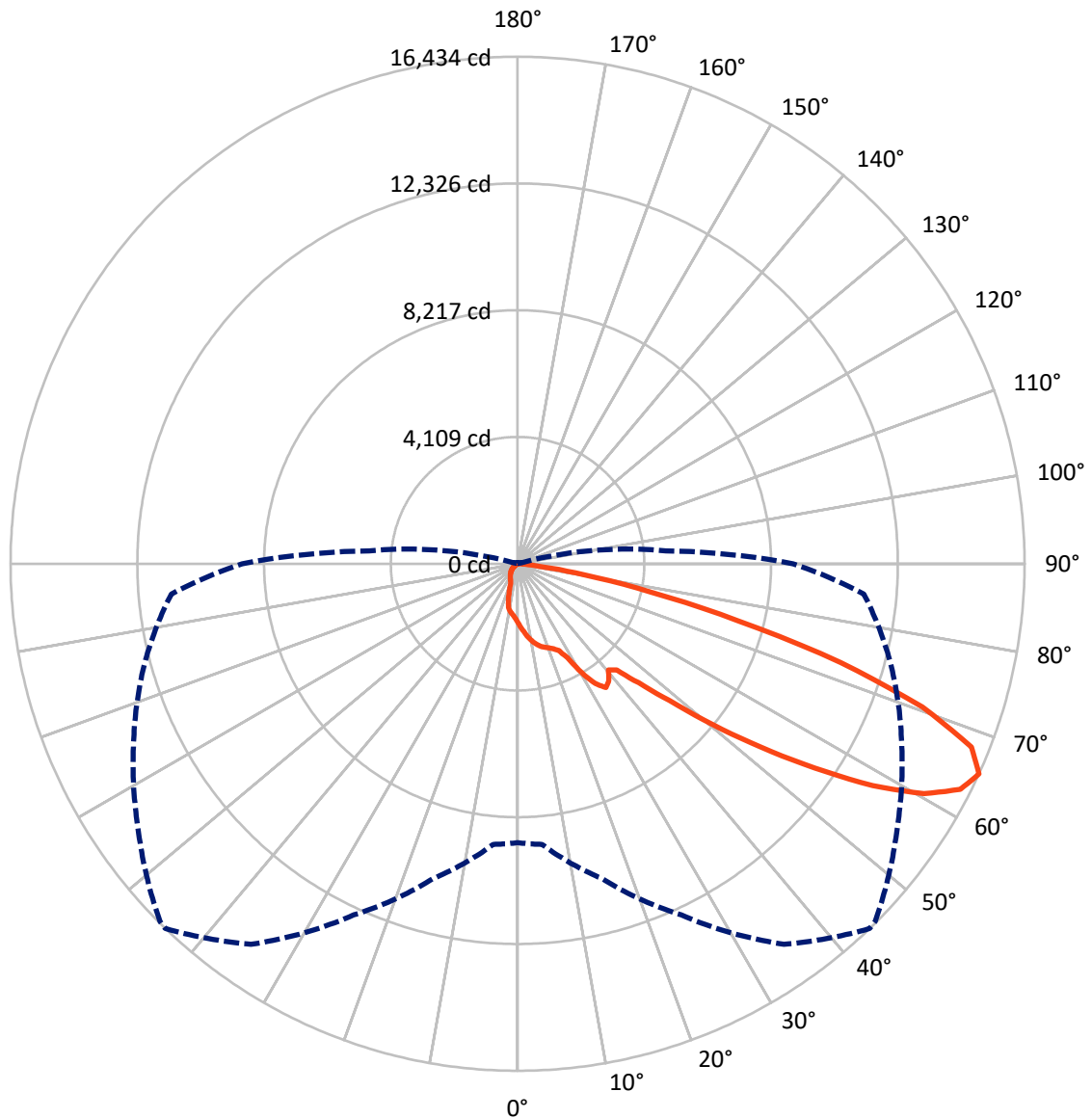
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc  
 Type III - Short - N/A

REPORT NUMBER: P652476  
CATALOG NUMBER: GALN-SA6B-840-U-T4W-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P652476  
 CATALOG NUMBER: GALN-SA6B-840-U-T4W-HSS

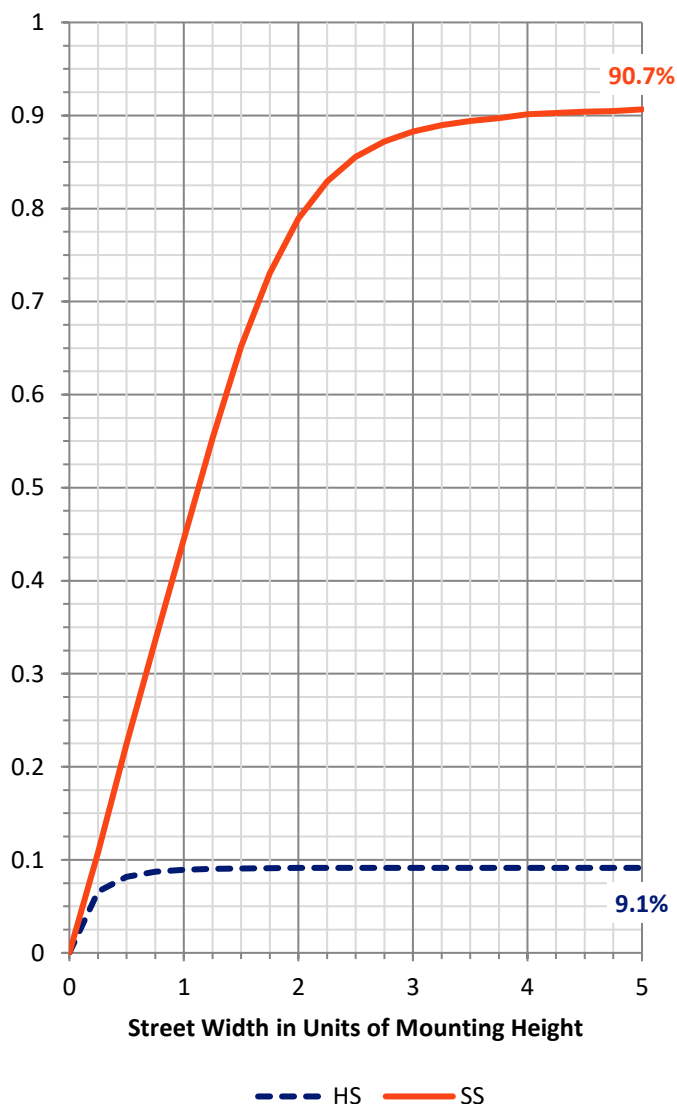
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1891.3	0.0	1891.3
	% Fixture	9.2	0.0	9.2
<b>Street Side</b>	Lumens	18636.6	0.0	18636.6
	% Fixture	90.8	0.0	90.8
<b>Total</b>	Lumens	20528.0	0.0	20528.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	190.0	0.9
10°-20°	571.9	2.8
20°-30°	969.7	4.7
30°-40°	1612.4	7.9
40°-50°	2815.2	13.7
50°-60°	5500.0	26.8
60°-70°	6381.2	31.1
70°-80°	2323.7	11.3
80°-90°	163.7	0.8
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°	20528.0	100.0
0°-180°	20528.0	100.0

**Coefficient of Utilization**



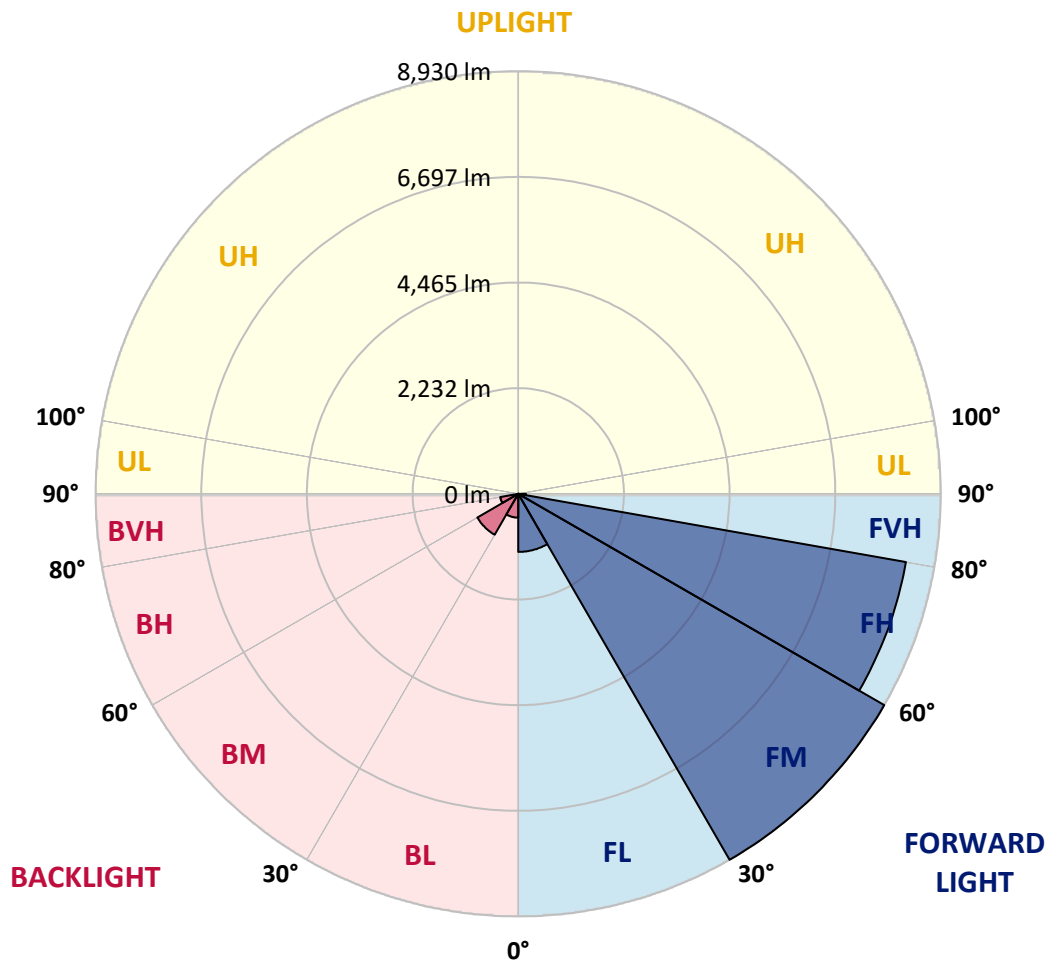
REPORT NUMBER: P652476  
 CATALOG NUMBER: GALN-SA6B-840-U-T4W-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1227.8	6.0			
FM (30°-60°)	8929.7	43.5			
FH (60°-80°)	8317.7	40.5			G4/12000
FVH (80°-90°)	161.5	0.8			G2/225
BL (0°-30°)	503.9	2.5	B2/1000		
BM (30°-60°)	997.9	4.9	B1/1000		
BH (60°-80°)	387.3	1.9	B1/500		G1/500
BVH (80°-90°)	2.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**

Type III Short





REPORT NUMBER: P652476

CATALOG NUMBER: GALN-SA6B-840-U-T4W-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1910.5	1910.5	1910.5	1910.5	1910.5	1910.5	1910.5	1910.5	1910.5	1910.5	1910.5
2.5°	2150.5	2141.1	2136.4	2111.3	2092.5	2068.9	2068.9	2039.2	2004.7	1967.0	1932.5
5°	2390.5	2374.8	2354.5	2332.5	2288.6	2225.8	2225.8	2163.1	2090.9	2026.6	1956.0
7.5°	2621.1	2607.0	2572.5	2530.1	2458.0	2392.1	2387.4	2296.4	2210.1	2112.9	2012.5
10°	2823.5	2812.5	2782.7	2701.1	2625.9	2539.6	2538.0	2436.0	2335.6	2216.5	2092.5
12.5°	2964.6	2966.2	2927.0	2848.6	2751.3	2669.8	2663.4	2563.1	2458.0	2329.3	2177.2
15°	3065.0	3065.0	3024.2	2936.4	2848.6	2776.4	2770.2	2682.3	2574.0	2434.4	2269.8
17.5°	3093.3	3102.7	3058.7	2980.3	2909.7	2847.0	2845.4	2771.7	2685.4	2550.5	2363.9
20°	3082.3	3091.7	3057.2	2996.0	2947.4	2911.3	2906.6	2876.8	2796.8	2669.8	2464.2
22.5°	3058.7	3068.1	3043.1	3007.0	2983.4	2994.5	2986.6	3011.7	2969.3	2815.6	2583.5
25°	3063.4	3072.8	3054.0	3033.7	3054.0	3121.5	3141.9	3250.1	3212.5	3000.7	2712.1
27.5°	3210.9	3229.7	3203.0	3212.5	3284.6	3441.5	3480.7	3667.3	3501.1	3236.0	2912.9
30°	3538.8	3526.2	3476.0	3521.5	3772.5	4105.0	4094.0	4064.2	3803.8	3507.4	3151.3
32.5°	3836.8	3825.8	3822.7	4018.7	4473.6	4635.2	4627.4	4338.7	4075.2	3818.0	3386.6
35°	3957.6	3915.2	3905.8	4381.1	5141.9	4928.5	4879.9	4451.7	4404.6	4156.7	3626.6
37.5°	4321.5	4291.6	4145.8	4440.6	4875.2	4804.5	4767.0	4646.2	4755.9	4456.4	3898.0
40°	5071.2	4988.1	4856.4	4567.7	4497.2	4526.9	4564.6	4895.5	5171.6	4865.8	4260.3
42.5°	6003.0	5984.1	5739.5	5201.4	4672.8	4713.6	4762.2	5416.4	5769.3	5482.2	4851.6
45°	7121.4	7148.1	6795.1	6159.8	5466.5	5501.1	5571.6	6185.0	6578.6	6440.6	5781.8
47.5°	8137.9	8117.4	7998.2	7337.9	6697.9	6621.0	6735.5	7171.6	7698.6	7720.6	6936.3
50°	9160.6	9268.8	9091.5	8832.7	8357.4	8195.9	8153.5	8366.9	9170.0	9064.9	8323.0
52.5°	10630.3	10686.8	10354.2	10288.4	10396.6	9872.7	9830.4	9882.1	10600.6	10239.8	9361.3
55°	11554.2	11521.3	11397.4	11911.8	12340.1	11686.0	11632.6	11424.1	11788.0	11069.5	10360.5
57.5°	11846.0	11893.1	12181.6	13111.9	14125.2	13569.9	13472.7	12879.7	12644.4	11842.9	11279.7
60°	11715.8	11802.1	12424.8	13808.3	15213.8	15130.6	15047.5	14051.4	13259.3	12489.1	11924.5
62.5°	10788.8	10909.5	11905.6	13684.3	15582.4	16101.5	15998.0	14782.4	13668.7	12802.8	12037.3
65°	9041.3	9130.7	10561.3	12559.7	15058.4	16434.1	16396.5	15011.4	13733.0	12515.8	11264.0
67.5°	6445.3	6749.6	8075.1	10584.8	13508.7	15866.3	15930.6	14736.9	13129.1	11275.0	9328.4
70°	4051.7	4258.7	5209.3	7577.8	10829.6	13919.6	14131.4	13480.5	11394.2	8788.8	6244.6
72.5°	1932.5	2086.2	2763.9	4796.7	7643.8	10951.9	11119.7	11066.4	8810.7	5537.1	3221.9
75°	861.2	919.2	1319.2	2448.6	4934.8	7361.4	7795.9	7868.1	5505.8	2708.9	1253.3
77.5°	439.2	440.8	618.1	1185.9	2464.2	4392.0	4478.3	4730.9	2985.0	1193.7	436.1
80°	233.7	249.4	327.8	560.0	1278.4	2163.1	2152.1	2365.4	1323.9	585.1	145.9
82.5°	105.1	116.1	185.1	293.3	624.3	820.4	884.6	967.8	567.8	373.3	64.3
85°	31.4	37.7	91.0	147.4	225.9	236.8	265.1	342.0	321.6	265.1	33.0
87.5°	4.7	4.7	37.7	40.8	33.0	42.4	43.9	48.6	103.5	97.2	17.2
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: P652476

CATALOG NUMBER: GALN-SA6B-840-U-T4W-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1910.5	1910.5	1910.5	1910.5	1910.5	1910.5	1910.5	1910.5	1910.5	1910.5	1910.5
2.5°	1913.7	1902.7	1863.5	1830.5	1802.3	1785.0	1764.7	1752.1	1745.8	1741.1	1742.7
5°	1921.5	1894.9	1827.4	1774.1	1733.3	1689.4	1659.5	1642.3	1634.5	1622.0	1622.0
7.5°	1965.4	1923.1	1829.0	1747.4	1676.8	1617.2	1560.7	1540.4	1526.2	1523.1	1519.9
10°	2028.2	1974.8	1846.2	1733.3	1632.9	1551.3	1471.3	1400.8	1345.9	1312.9	1308.2
12.5°	2106.6	2029.8	1872.9	1723.9	1595.3	1451.0	1239.2	1096.4	1000.8	970.9	975.6
15°	2178.8	2095.6	1899.6	1716.1	1526.2	1203.1	963.1	800.0	751.3	746.6	748.2
17.5°	2265.1	2166.2	1930.9	1705.0	1336.4	919.2	715.3	671.4	680.8	696.4	694.9
20°	2354.5	2241.5	1968.6	1639.2	1066.6	691.7	632.2	636.8	650.9	665.1	668.3
22.5°	2450.2	2327.8	2012.5	1480.7	814.1	602.3	599.2	605.4	619.6	635.3	638.4
25°	2581.9	2436.0	2045.5	1273.7	616.5	556.8	563.1	574.1	586.7	603.9	607.0
27.5°	2751.3	2581.9	2062.7	1003.9	533.4	516.0	517.6	533.4	549.0	564.7	564.7
30°	2970.9	2756.0	2028.2	759.2	492.6	476.8	470.5	480.0	500.4	516.0	517.6
32.5°	3167.0	2920.7	1937.2	580.4	462.7	440.8	425.1	426.6	434.5	443.9	445.5
35°	3363.1	3080.8	1781.9	487.9	431.3	406.3	382.7	370.2	363.9	359.2	363.9
37.5°	3614.0	3279.9	1574.9	443.9	404.7	373.3	340.4	313.7	291.7	277.6	280.8
40°	3937.1	3556.0	1330.1	415.7	379.6	342.0	298.1	263.5	225.9	213.4	207.1
42.5°	4470.5	3974.8	1072.9	392.2	354.5	309.0	254.2	207.1	172.6	160.0	163.2
45°	5312.8	4503.4	826.6	367.0	329.4	272.9	213.4	163.2	134.9	128.6	131.8
47.5°	6429.6	5187.3	636.8	338.8	298.1	233.7	167.9	128.6	111.3	109.8	108.2
50°	7480.6	5824.2	531.8	307.5	260.4	194.5	138.0	108.2	97.2	95.7	95.7
52.5°	8431.2	6280.7	432.9	271.4	219.6	160.0	116.1	95.7	86.3	81.6	81.6
55°	9276.7	6578.6	351.4	227.4	172.6	127.1	100.4	86.3	75.3	69.0	67.4
57.5°	9915.1	6614.7	263.5	182.0	128.6	98.8	86.3	75.3	62.7	54.9	51.7
60°	10188.0	6302.6	194.5	138.0	95.7	78.5	69.0	61.1	47.1	39.2	37.7
62.5°	9913.5	5695.6	144.3	105.1	73.8	58.0	48.6	45.5	33.0	23.5	22.0
65°	8930.0	4818.7	114.5	80.0	54.9	42.4	31.4	29.8	20.4	11.0	9.4
67.5°	7154.3	3774.0	91.0	59.6	39.2	28.3	20.4	18.8	11.0	3.1	3.1
70°	4652.4	2412.5	73.8	43.9	25.1	18.8	12.5	9.4	6.3	1.6	0.0
72.5°	2301.1	1127.8	59.6	34.5	17.2	9.4	4.7	3.1	4.7	0.0	0.0
75°	892.6	401.6	43.9	23.5	9.4	4.7	3.1	0.0	1.6	0.0	0.0
77.5°	296.5	133.3	26.7	12.5	6.3	3.1	0.0	0.0	0.0	0.0	0.0
80°	109.8	51.7	14.1	7.8	3.1	1.6	0.0	0.0	0.0	0.0	0.0
82.5°	43.9	20.4	9.4	6.3	3.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	22.0	12.5	6.3	4.7	3.1	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	15.7	9.4	6.3	4.7	3.1	1.6	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)