

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: P451208

Luminaire Tested: **GALN-SA2A-750-U-AFL-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P451208  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2A-750-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7535 lumens  
Efficiency: N/A  
Efficacy: 119.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

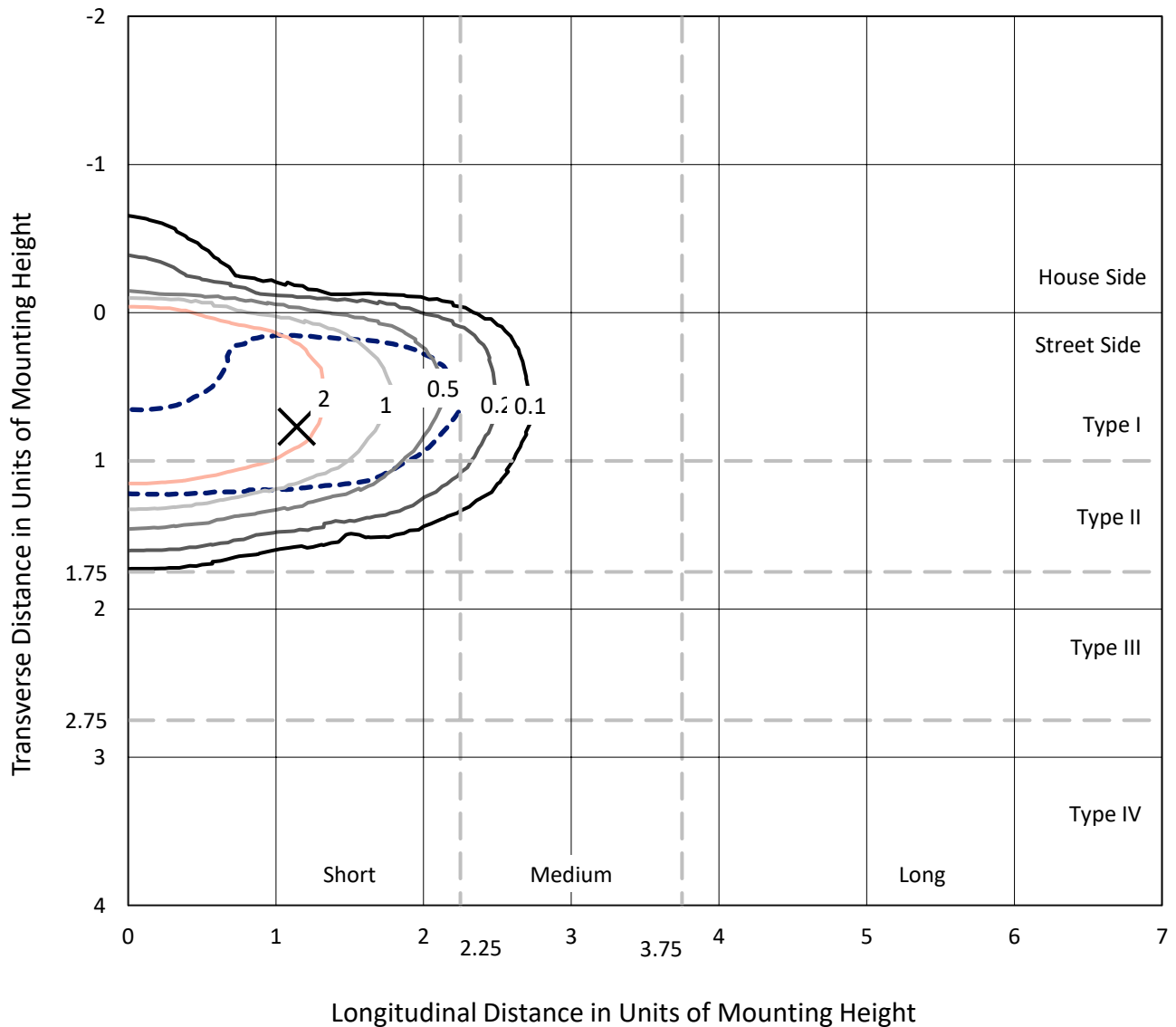
Input Watts (W): 63  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

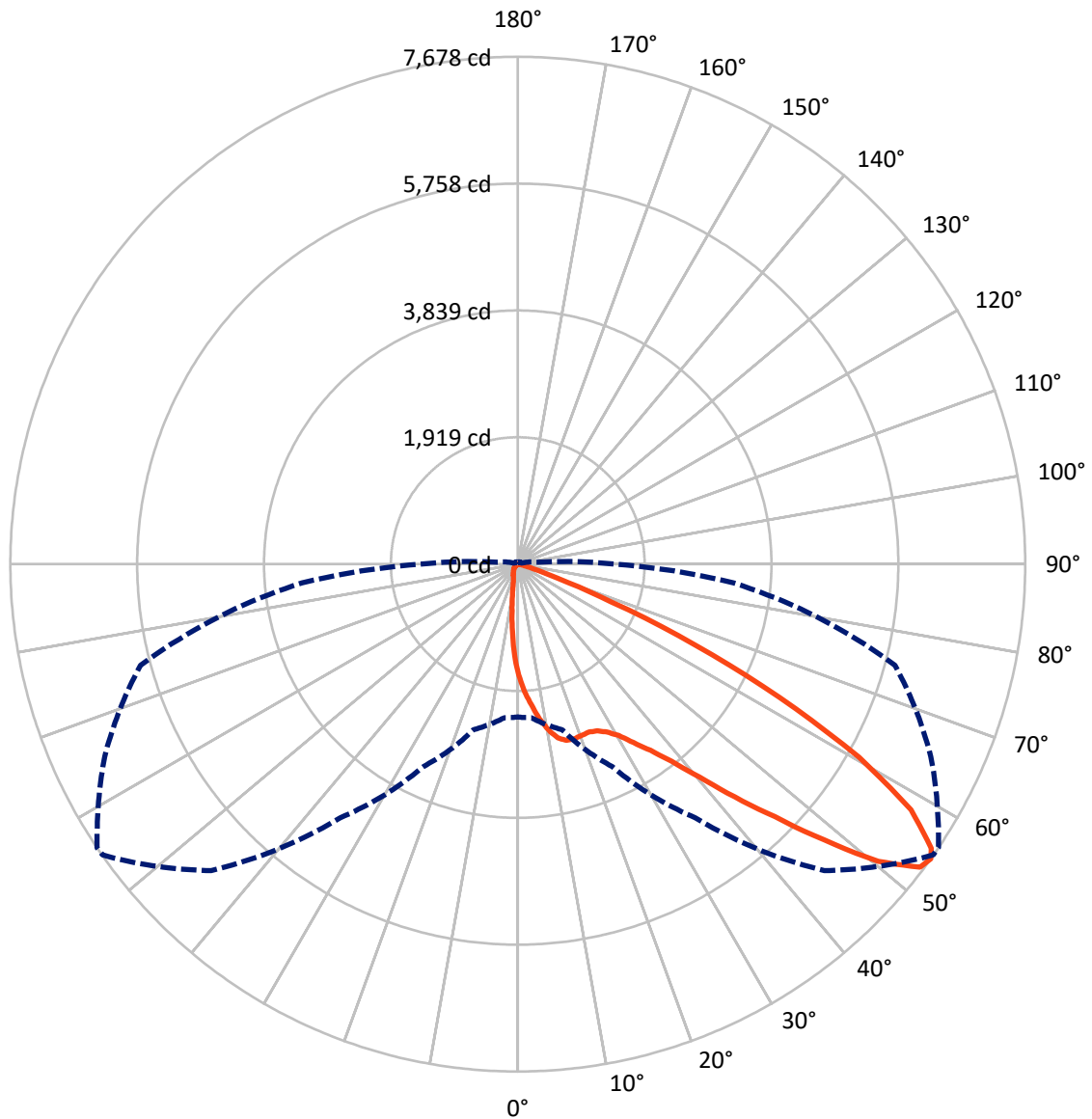
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral    - - - Horizontal Cone Through 54-Deg Vertical

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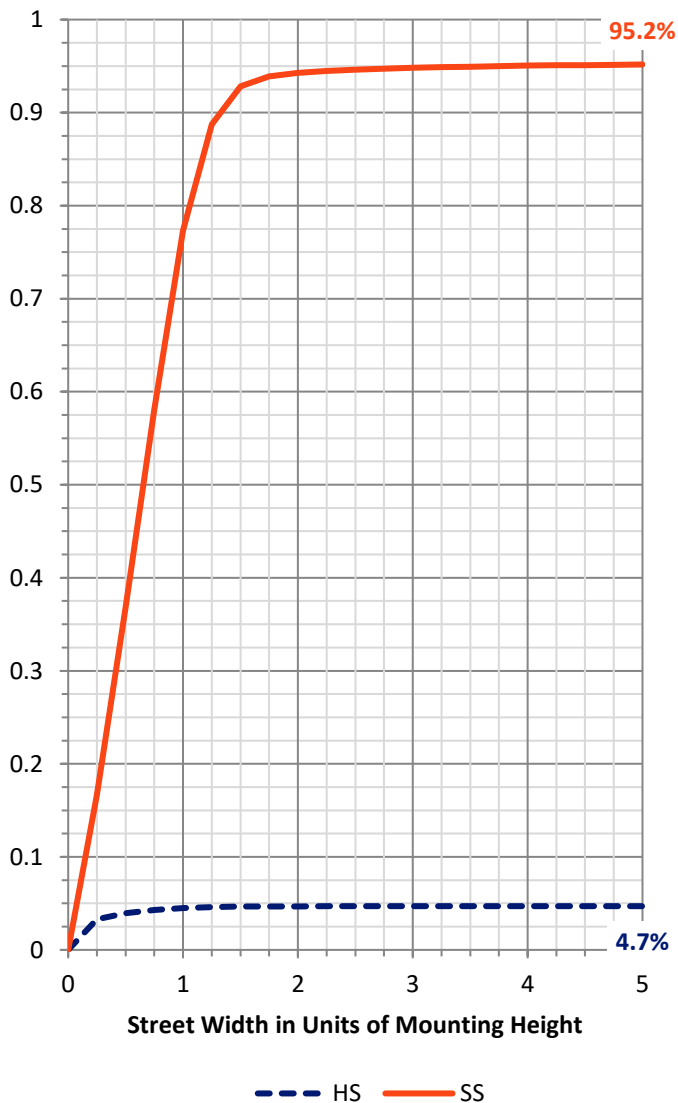
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	356.3	0.0	356.3
	% Fixture	4.7	0.0	4.7
<b>Street Side</b>	Lumens	7178.7	0.0	7178.7
	% Fixture	95.3	0.0	95.3
<b>Total</b>	Lumens	7535.0	0.0	7535.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	147.9	2.0
10°-20°	399.9	5.3
20°-30°	692.6	9.2
30°-40°	1195.5	15.9
40°-50°	2034.9	27.0
50°-60°	2013.7	26.7
60°-70°	919.1	12.2
70°-80°	118.0	1.6
80°-90°	13.3	0.2
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°	7535.0	100.0
0°-180°	7535.0	100.0

**Coefficient of Utilization**



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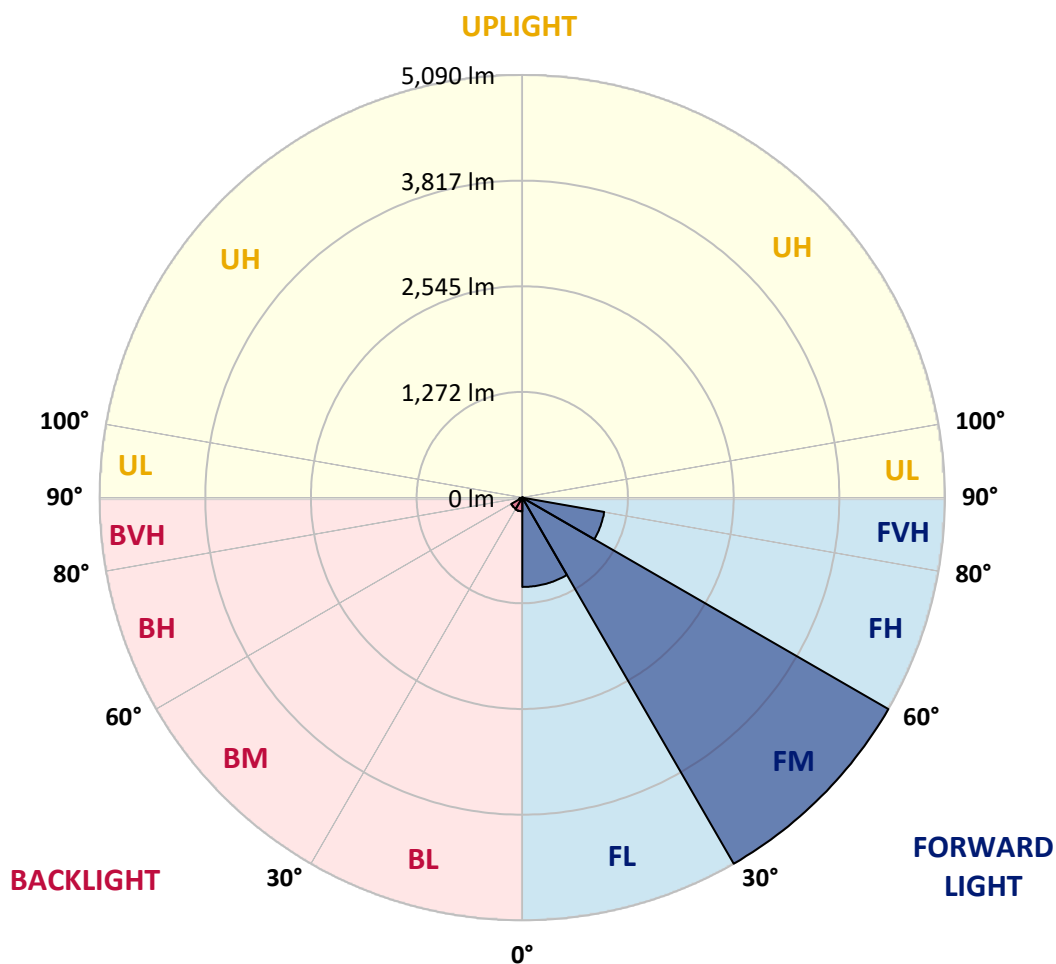
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1075.6	14.3			
FM (30°-60°)	5089.7	67.5			
FH (60°-80°)	1001.5	13.3			G1/1800
FVH (80°-90°)	11.9	0.2			G1/100
BL (0°-30°)	164.8	2.2	B1/500		
BM (30°-60°)	154.4	2.0	B0/220		
BH (60°-80°)	35.7	0.5	B0/110		G0/110
BVH (80°-90°)	1.4	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-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1674.1	1674.1	1674.1	1674.1	1674.1	1674.1	1674.1	1674.1	1674.1	1674.1	1674.1
2.5°	2127.5	2112.8	2092.4	2076.7	2039.6	1986.2	1929.8	1929.8	1875.4	1799.6	1722.4
5°	2453.9	2444.2	2424.4	2383.7	2342.1	2267.3	2154.0	2134.1	2037.0	1899.8	1755.4
7.5°	2586.6	2591.2	2592.2	2581.5	2561.7	2488.0	2375.6	2361.9	2206.8	2022.8	1798.6
10°	2459.5	2481.9	2503.7	2547.9	2610.5	2628.3	2564.7	2550.5	2398.0	2147.4	1845.4
12.5°	2270.4	2282.6	2294.8	2364.4	2490.0	2633.9	2700.5	2699.9	2570.8	2271.4	1904.9
15°	2182.4	2193.1	2194.1	2225.1	2333.9	2543.4	2758.4	2766.0	2739.6	2424.4	1968.9
17.5°	2200.7	2209.4	2202.3	2209.9	2266.8	2443.7	2751.8	2777.2	2876.4	2571.3	2026.9
20°	2320.2	2337.0	2309.5	2288.2	2305.5	2417.3	2729.4	2765.0	2972.9	2714.7	2079.7
22.5°	2534.7	2543.9	2509.3	2450.8	2420.3	2472.7	2723.3	2758.4	3055.3	2832.1	2110.2
25°	2773.2	2770.1	2732.0	2666.4	2602.3	2584.5	2763.5	2795.0	3123.4	2937.9	2119.4
27.5°	3011.6	3020.7	2956.7	2875.3	2798.6	2752.3	2853.5	2876.9	3200.2	3058.4	2130.6
30°	3288.6	3273.9	3210.9	3117.8	3029.9	2965.3	2998.4	3005.0	3305.9	3218.0	2160.1
32.5°	3649.1	3608.4	3537.7	3375.1	3312.0	3202.7	3210.9	3219.0	3434.5	3376.1	2195.6
35°	4138.1	4136.1	3997.8	3778.7	3625.2	3489.4	3453.9	3460.5	3629.2	3610.9	2274.4
37.5°	4726.8	4735.0	4577.4	4356.7	4074.1	3858.5	3785.3	3786.3	3925.1	3935.3	2394.4
40°	5206.2	5227.6	5133.5	4984.6	4705.5	4368.4	4245.4	4234.2	4341.0	4328.3	2565.7
42.5°	5412.6	5432.4	5467.5	5519.4	5365.8	5087.8	4797.5	4812.7	4845.3	4756.3	2757.9
45°	5311.4	5343.0	5480.7	5801.0	5945.4	5851.8	5505.6	5452.3	5314.5	5221.5	2951.1
47.5°	4890.0	4966.8	5197.1	5730.3	6235.7	6551.9	6304.8	6234.1	5784.2	5561.1	3074.1
50°	4197.1	4201.7	4522.5	5204.2	6085.2	6993.6	7120.7	7067.9	6221.9	5751.7	3136.1
52.5°	3042.6	3142.7	3436.6	4226.1	5433.5	6926.5	7640.8	7618.9	6673.4	5849.3	3225.6
54°	2313.1	2332.4	2593.7	3377.1	4684.6	6558.0	7672.8	7677.9	6897.6	5908.3	3278.5
55°	1896.2	1850.0	2124.5	2876.9	4173.7	6232.1	7568.1	7592.5	6998.2	5938.8	3317.6
57.5°	898.8	899.3	1109.3	1517.5	2614.0	4839.2	6928.1	7014.5	7009.4	5991.1	3438.1
60°	455.0	458.0	504.3	700.5	1291.3	3217.0	5728.3	5934.2	6470.0	5998.8	3477.8
62.5°	318.2	314.7	307.1	337.0	543.4	1634.9	4264.7	4443.7	5497.0	5708.5	3351.7
65°	272.5	264.9	243.5	238.9	274.5	651.2	2656.2	2948.0	4197.1	4942.9	2992.8
67.5°	232.8	229.8	210.5	198.8	194.2	283.7	1370.6	1524.1	2868.7	3553.0	2266.8
70°	197.8	196.2	184.5	169.8	157.1	169.8	508.4	629.9	1598.8	1913.0	1069.6
72.5°	160.6	162.2	164.2	145.4	132.2	120.5	217.1	252.7	669.0	683.8	374.2
75°	140.8	139.3	139.3	126.6	110.3	89.5	119.5	128.6	204.9	190.1	86.9
77.5°	99.1	95.6	111.8	104.2	92.0	63.5	68.1	72.2	84.9	72.7	40.7
80°	68.6	68.6	71.7	93.5	82.9	46.3	41.7	44.7	50.3	43.2	23.4
82.5°	38.6	39.7	46.8	49.8	48.3	31.0	27.5	28.0	33.6	29.5	14.7
85°	4.6	7.6	26.9	26.4	19.8	13.7	15.3	15.8	20.8	18.3	8.6
87.5°	0.5	1.0	5.6	7.1	5.1	5.6	5.6	5.6	7.1	8.1	6.1
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°	1674.1	1674.1	1674.1	1674.1	1674.1	1674.1	1674.1	1674.1	1674.1	1674.1	1674.1
2.5°	1680.7	1642.0	1550.0	1443.3	1375.1	1264.3	1170.8	1103.2	1086.4	1053.8	1063.5
5°	1678.6	1598.3	1410.7	1212.5	1001.0	843.4	726.0	633.4	592.8	565.8	547.0
7.5°	1679.7	1554.1	1253.1	937.4	684.8	530.2	421.4	365.0	327.4	311.6	313.7
10°	1682.7	1504.3	1070.1	694.4	462.1	342.6	276.0	249.1	236.4	234.4	233.8
12.5°	1689.8	1449.9	895.2	515.5	323.3	249.1	223.7	214.5	210.5	210.5	208.9
15°	1697.4	1389.9	749.8	383.3	249.1	214.0	202.3	197.8	195.2	195.2	194.7
17.5°	1697.4	1320.7	614.1	297.4	214.5	196.7	187.6	181.5	179.5	179.5	178.9
20°	1686.8	1240.4	493.6	239.4	194.7	180.5	171.3	164.7	162.2	161.2	160.6
22.5°	1649.7	1133.2	393.0	205.9	178.4	166.2	154.5	146.9	144.9	143.9	144.4
25°	1583.6	1012.2	311.1	181.0	163.7	149.0	138.8	133.2	131.2	131.2	131.7
27.5°	1515.4	885.6	246.6	162.2	145.9	132.7	124.6	121.0	120.5	122.0	122.5
30°	1452.4	758.5	199.8	146.9	130.1	119.0	113.4	112.3	112.3	112.9	113.4
32.5°	1382.3	647.2	167.3	133.7	117.4	107.8	104.7	104.7	105.7	105.7	106.8
35°	1338.0	551.6	146.9	121.0	107.8	99.6	97.6	98.1	99.6	101.7	102.7
37.5°	1314.1	475.3	133.7	110.8	98.6	93.0	91.0	92.0	95.6	99.1	99.6
40°	1316.2	417.9	123.0	102.2	91.5	85.4	83.9	86.9	90.5	94.0	94.6
42.5°	1338.5	375.2	112.9	92.0	85.4	76.8	76.3	79.3	80.8	84.4	84.9
45°	1365.0	344.2	102.2	81.3	74.2	66.6	67.1	69.6	71.7	77.3	78.3
47.5°	1373.1	322.8	90.0	69.1	61.0	58.5	59.0	60.5	64.6	69.6	70.2
50°	1382.3	309.6	78.3	58.5	51.9	51.3	51.9	52.9	55.4	57.4	56.9
52.5°	1421.4	309.1	68.6	50.8	44.2	45.2	45.8	45.2	43.2	40.2	39.1
54°	1458.0	310.6	64.1	47.3	40.7	42.2	41.7	39.1	34.1	31.0	29.5
55°	1487.5	312.1	61.5	44.7	38.6	39.1	39.7	34.6	28.0	24.9	23.9
57.5°	1545.4	308.6	55.4	39.1	34.1	32.0	31.5	22.9	15.3	13.2	12.2
60°	1516.5	278.6	50.3	33.6	29.0	25.9	21.4	12.7	7.6	5.6	5.6
62.5°	1402.6	236.4	44.7	27.5	23.9	19.8	11.2	7.1	3.6	2.0	1.5
65°	1254.7	198.8	40.2	21.9	18.8	12.7	6.1	4.6	1.5	0.0	0.0
67.5°	932.9	147.4	34.1	17.3	14.2	8.1	4.1	2.5	0.5	0.0	0.0
70°	432.1	90.0	29.0	13.2	10.2	6.1	3.1	1.5	0.0	0.0	0.0
72.5°	124.0	56.4	23.9	9.7	7.1	5.1	2.5	1.0	0.5	0.0	0.0
75°	43.2	45.2	17.8	7.1	5.6	3.6	2.0	1.0	0.5	0.0	0.0
77.5°	25.9	36.6	11.2	6.1	4.6	3.1	2.0	1.0	0.5	0.5	0.0
80°	14.7	24.4	7.1	5.1	4.1	2.5	1.5	1.0	0.5	0.5	0.0
82.5°	8.1	11.7	5.6	4.6	3.6	2.5	1.5	1.0	0.5	0.5	0.5
85°	6.6	6.1	4.6	4.1	3.1	2.0	1.5	0.5	0.0	0.0	0.0
87.5°	5.1	4.1	4.1	4.1	3.1	2.0	1.5	0.5	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)