

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: P647822

Luminaire Tested: **GALN-SA3A-835-U-SL2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647822  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3A-835-U-SL2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10669.9 lumens  
Efficiency: N/A  
Efficacy: 114.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G3

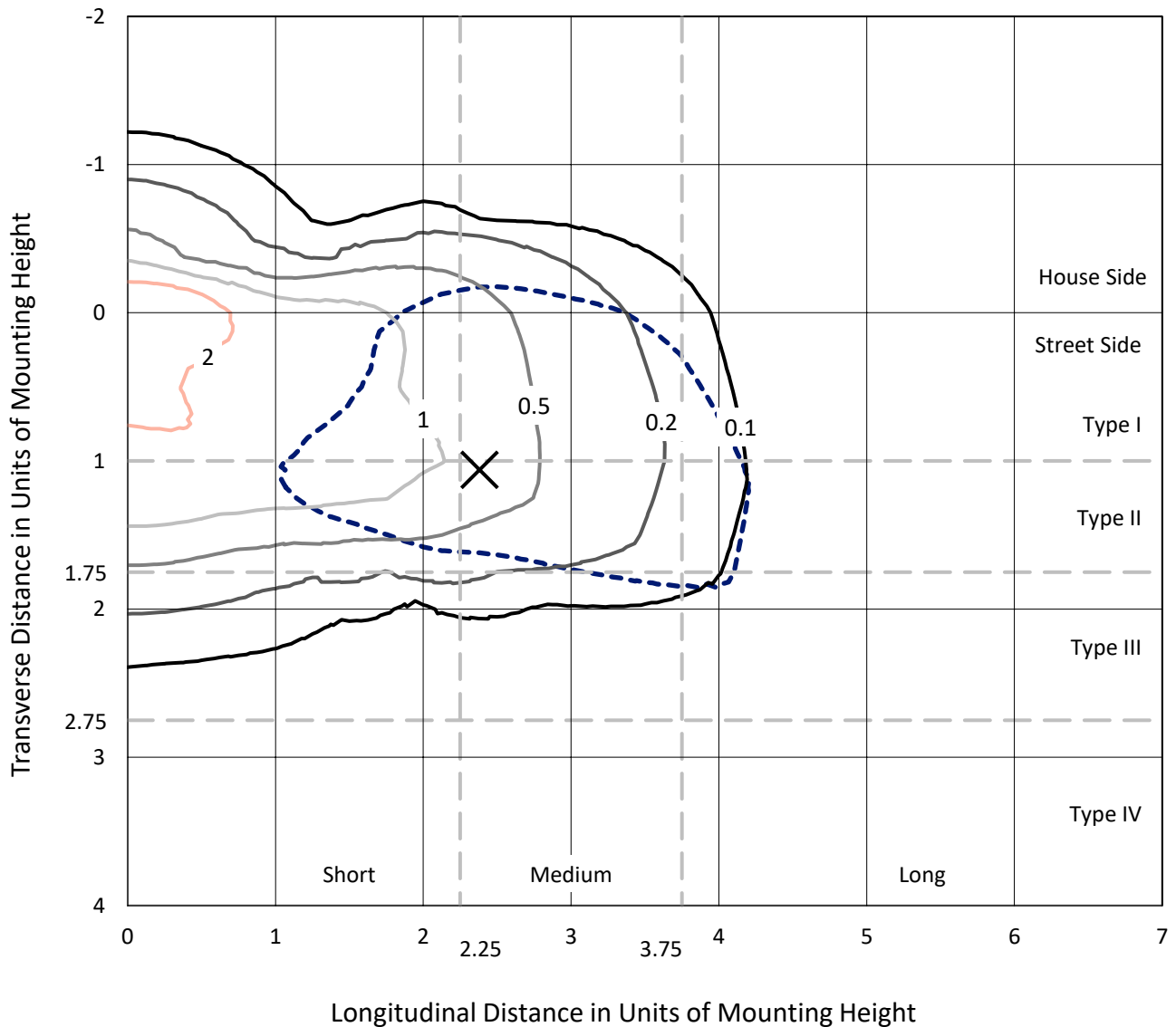
Input Watts (W): 93  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

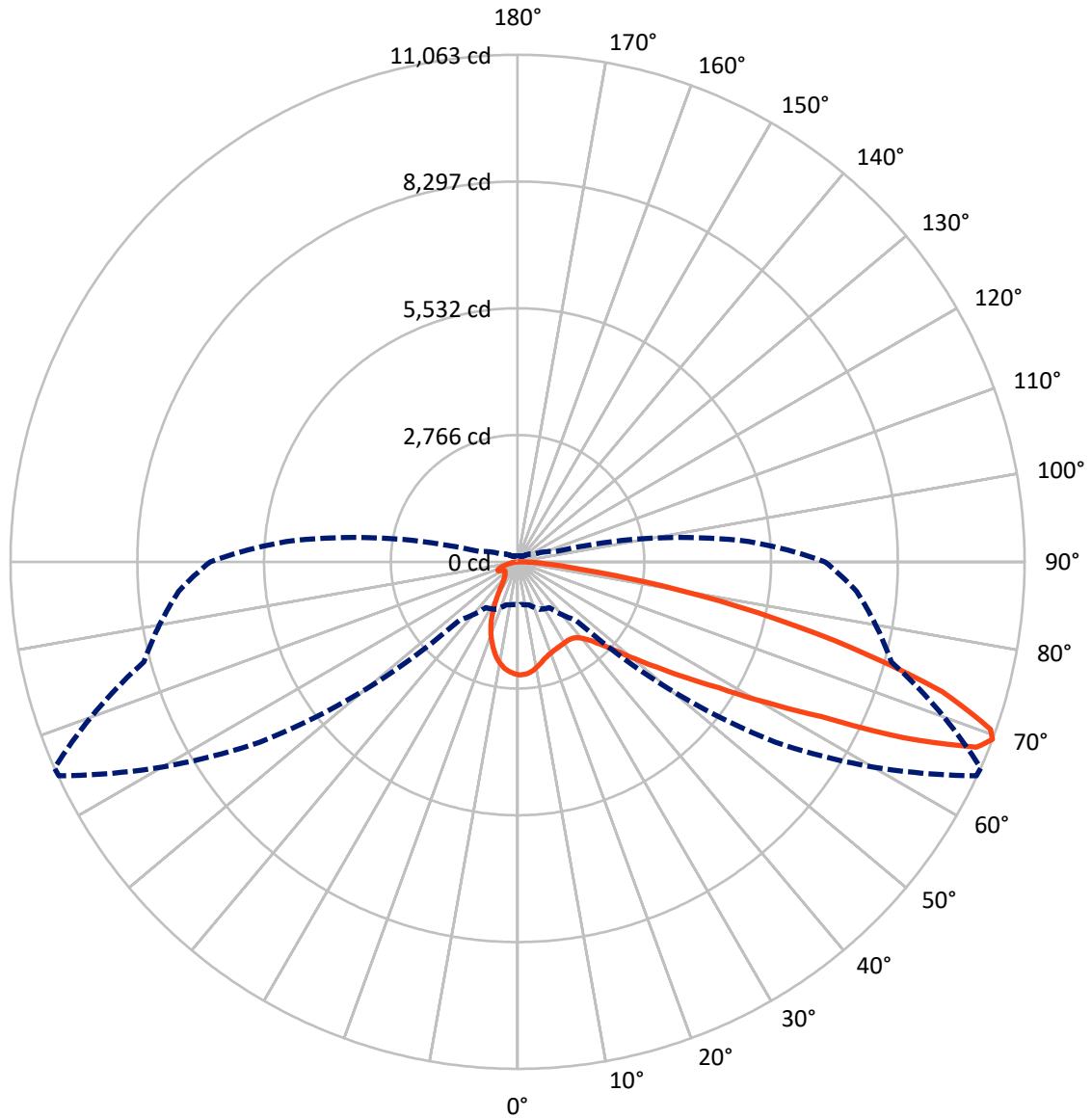
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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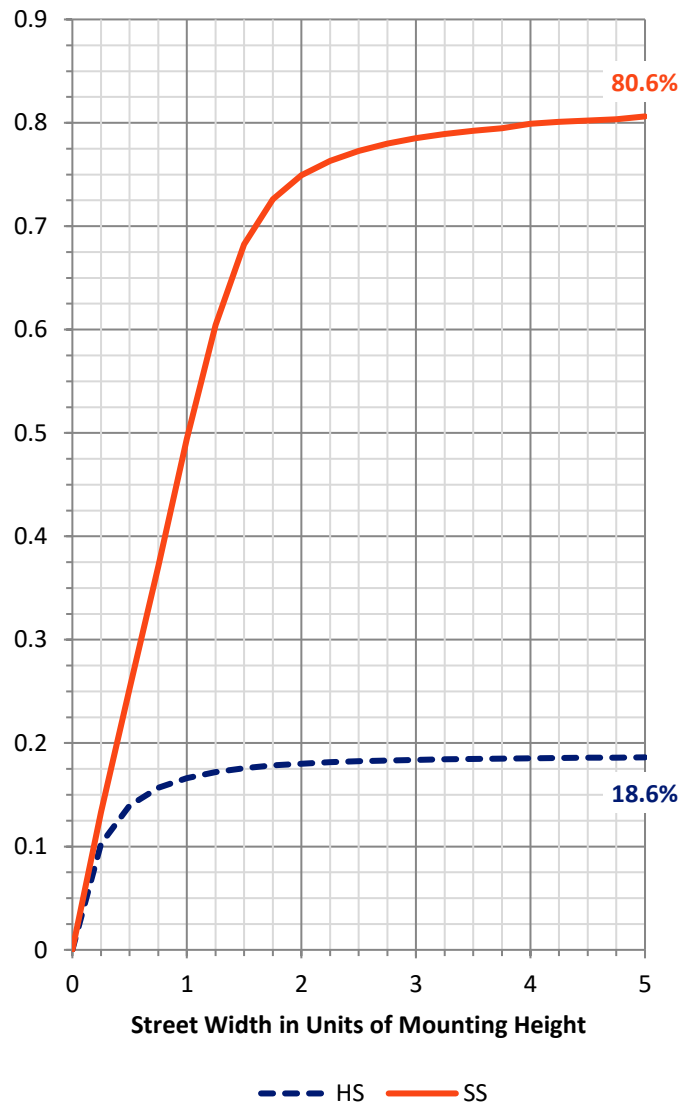
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2006.6	0.0	2006.6
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	8663.3	0.0	8663.3
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	10669.9	0.0	10669.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	214.0	2.0
10°-20°	507.5	4.8
20°-30°	690.9	6.5
30°-40°	928.5	8.7
40°-50°	1386.3	13.0
50°-60°	2205.2	20.7
60°-70°	2712.3	25.4
70°-80°	1764.7	16.5
80°-90°	260.6	2.4
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°	10669.9	100.0
0°-180°	10669.9	100.0

**Coefficient of Utilization**

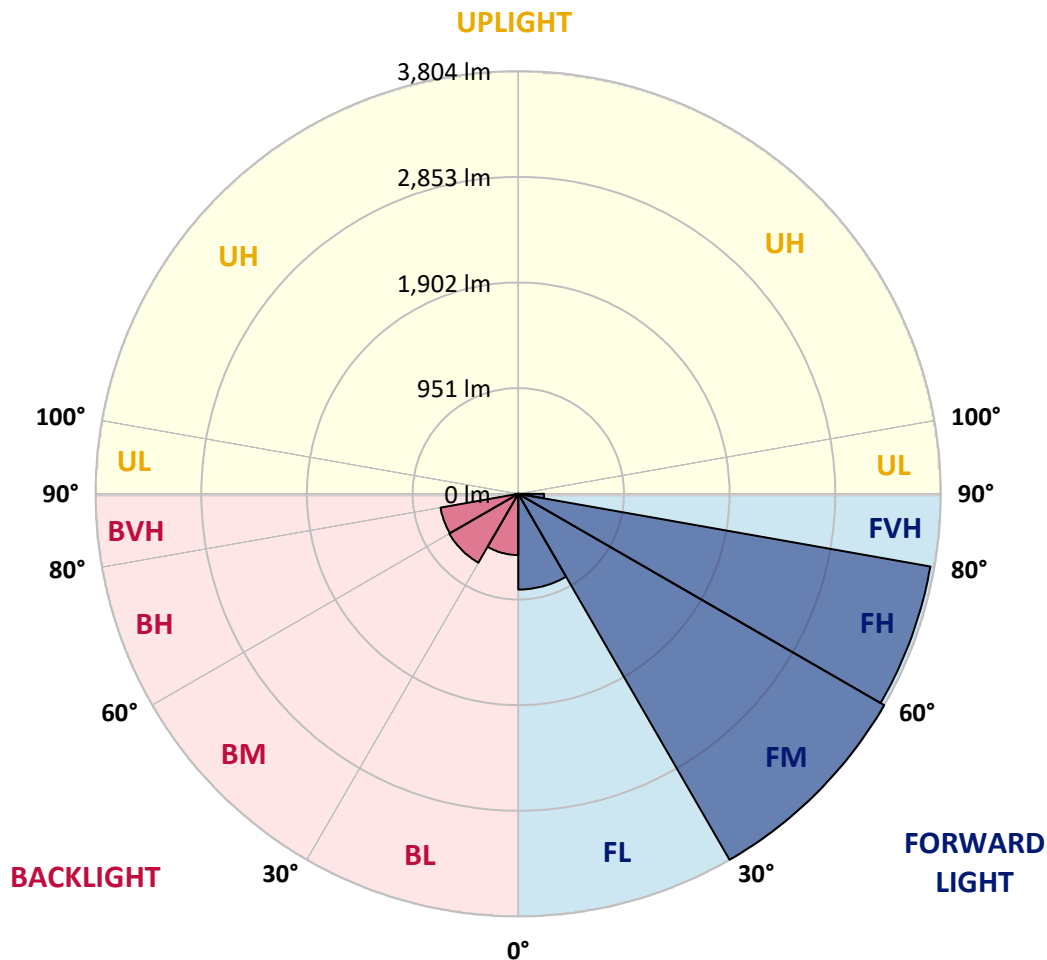


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	861.6	8.1			
FM (30°-60°)	3803.5	35.6			
FH (60°-80°)	3766.5	35.3			G2/5000
FVH (80°-90°)	231.7	2.2			G3/500
BL (0°-30°)	550.8	5.2	B2/1000		
BM (30°-60°)	716.4	6.7	B1/1000		
BH (60°-80°)	710.4	6.7	B2/1000		G2/1000
BVH (80°-90°)	28.9	0.3			G1/100
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 Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2464.0	2464.0	2464.0	2464.0	2464.0	2464.0	2464.0	2464.0	2464.0	2464.0	2464.0
2.5°	2377.7	2387.1	2397.8	2409.6	2432.1	2444.4	2453.4	2463.4	2464.6	2469.9	2465.7
5°	2202.2	2213.5	2229.4	2251.8	2285.6	2338.1	2392.5	2436.8	2442.1	2466.9	2474.0
7.5°	2055.7	2062.2	2075.2	2111.2	2159.1	2217.6	2296.8	2386.6	2399.6	2458.7	2479.4
10°	1936.4	1942.9	1958.2	1995.4	2042.7	2116.0	2202.8	2321.0	2331.6	2433.3	2480.5
12.5°	1847.1	1853.0	1869.6	1906.2	1960.6	2029.1	2124.8	2250.1	2265.5	2399.6	2469.3
15°	1779.1	1790.4	1804.0	1834.1	1891.4	1957.6	2050.4	2185.1	2197.5	2364.1	2461.6
17.5°	1750.2	1755.5	1765.0	1792.8	1834.7	1899.7	1993.0	2134.3	2149.0	2339.3	2459.9
20°	1751.4	1756.7	1758.5	1773.8	1804.0	1860.1	1952.3	2094.1	2111.8	2317.4	2462.8
22.5°	1791.6	1792.1	1785.6	1780.3	1792.1	1838.8	1923.4	2064.0	2084.7	2308.0	2465.2
25°	1853.6	1864.2	1854.8	1829.9	1808.1	1830.6	1912.1	2047.4	2066.9	2294.4	2462.2
27.5°	1954.1	1955.9	1948.2	1914.4	1857.7	1841.2	1907.4	2035.0	2051.5	2284.3	2447.4
30°	2088.8	2083.5	2076.4	2039.2	1949.9	1881.9	1917.4	2023.7	2040.9	2269.6	2429.7
32.5°	2225.3	2241.8	2235.3	2191.6	2075.8	1961.2	1949.9	2022.6	2036.7	2258.3	2410.2
35°	2370.1	2377.7	2408.4	2386.0	2267.3	2089.4	2010.7	2040.9	2052.2	2259.0	2396.6
37.5°	2483.5	2504.2	2576.2	2595.7	2484.1	2259.0	2109.5	2092.9	2097.7	2287.9	2401.9
40°	2620.5	2656.0	2748.8	2828.6	2755.3	2479.4	2277.3	2189.2	2195.1	2357.6	2436.8
42.5°	2794.3	2819.1	2943.8	3051.9	3040.1	2770.6	2480.5	2347.0	2349.9	2496.5	2534.3
45°	2997.6	3033.0	3173.0	3335.5	3363.3	3100.4	2774.2	2585.7	2583.9	2712.2	2716.3
47.5°	3257.5	3279.4	3418.3	3595.5	3707.8	3514.6	3130.5	2928.4	2909.5	3026.5	2992.9
50°	3496.9	3531.1	3636.3	3830.1	4109.6	3999.7	3599.1	3372.8	3328.5	3437.8	3381.1
52.5°	3597.3	3633.4	3722.0	3962.4	4454.1	4627.2	4194.1	3902.8	3828.9	3912.8	3892.1
55°	3423.0	3469.7	3552.4	3844.8	4605.4	5351.0	4996.5	4515.6	4461.8	4425.8	4431.6
57.5°	2954.4	2998.7	3110.4	3433.1	4424.6	5876.3	6142.2	5303.2	5187.9	5021.9	5050.3
60°	2248.9	2276.7	2334.6	2692.0	3888.6	6012.8	7443.4	6298.8	6225.6	5615.8	5635.9
62.5°	1597.2	1628.5	1668.7	1847.1	2846.9	5628.2	8462.0	7689.1	7427.4	6230.9	6211.4
65°	1297.0	1275.7	1324.2	1407.5	1670.5	4361.9	8691.3	9619.0	9258.6	7041.0	6770.4
67.5°	1066.5	1044.1	1092.0	1240.3	1270.4	2531.9	7865.2	10871.6	10799.6	7922.0	7338.2
69°	944.2	932.4	974.4	1143.3	1219.6	1798.1	6851.9	11046.0	11063.1	8441.4	7425.7
70°	850.9	855.6	896.4	1094.3	1196.5	1482.5	5856.2	10805.5	10950.9	8700.8	7331.1
72.5°	626.3	636.3	693.1	906.4	1174.7	1258.0	3485.1	9438.2	9695.2	8716.1	6706.6
75°	437.9	433.2	483.3	682.5	1109.7	1246.8	2046.8	7299.2	7590.5	7533.8	5635.3
77.5°	286.6	294.3	334.4	482.2	933.6	1237.3	1334.2	5178.5	5367.6	5038.4	3333.2
80°	202.1	201.5	223.9	329.1	692.5	1188.8	1092.5	3264.0	3216.2	1980.1	988.5
82.5°	115.8	124.1	150.1	231.6	463.2	1046.5	1005.1	1561.1	1425.2	564.3	333.9
85°	64.4	67.3	89.3	140.0	270.6	788.2	877.4	710.3	670.1	235.8	143.6
87.5°	20.7	22.5	37.2	70.9	122.9	372.2	497.0	327.9	302.6	85.1	57.9
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°	2464.0	2464.0	2464.0	2464.0	2464.0	2464.0	2464.0	2464.0	2464.0	2464.0	2464.0
2.5°	2467.5	2474.6	2455.7	2437.4	2420.9	2397.8	2377.1	2360.0	2348.1	2346.4	2340.5
5°	2475.8	2476.4	2440.4	2391.9	2344.6	2292.6	2238.8	2200.5	2164.4	2144.3	2134.3
7.5°	2481.7	2476.4	2411.4	2332.8	2241.8	2147.3	2052.7	1977.1	1918.6	1895.6	1904.4
10°	2479.4	2462.8	2367.6	2241.8	2109.5	1968.2	1832.3	1726.0	1628.5	1578.2	1579.5
12.5°	2466.4	2439.2	2302.6	2139.6	1945.2	1756.1	1548.1	1404.5	1291.6	1224.9	1204.3
15°	2455.1	2407.9	2226.5	2000.7	1759.1	1489.0	1235.6	1058.3	963.7	911.2	910.6
17.5°	2443.3	2377.7	2143.1	1853.6	1545.2	1197.8	931.8	796.5	752.2	757.5	748.6
20°	2430.9	2342.3	2056.3	1689.9	1284.6	893.4	697.8	642.8	655.3	679.5	683.1
22.5°	2416.7	2304.4	1962.9	1509.7	1010.4	672.4	566.0	557.8	589.7	627.5	632.8
25°	2394.9	2257.2	1845.3	1321.2	779.4	541.8	495.7	501.7	533.0	564.9	568.5
27.5°	2364.1	2198.7	1726.6	1086.0	585.5	465.0	453.2	460.9	476.2	495.7	500.5
30°	2322.8	2132.5	1590.0	882.8	469.2	426.7	421.9	426.0	434.9	443.2	445.5
32.5°	2281.4	2068.7	1452.4	676.0	418.4	401.2	396.5	396.5	396.5	397.7	398.2
35°	2243.0	2008.4	1304.6	526.5	391.7	381.1	374.6	367.5	366.4	362.2	362.2
37.5°	2221.8	1953.4	1147.5	440.8	372.2	364.6	355.7	343.9	337.4	338.0	336.8
40°	2225.8	1917.4	1004.5	392.4	356.3	348.0	334.4	320.9	316.7	316.7	315.5
42.5°	2272.5	1905.6	867.4	366.9	340.9	331.5	314.4	301.9	299.6	298.9	300.2
45°	2380.1	1934.6	744.5	350.4	327.9	313.7	296.6	285.4	283.1	283.1	282.4
47.5°	2589.9	2028.5	656.5	339.7	318.5	300.2	282.4	271.2	267.1	265.9	265.9
50°	2916.0	2232.3	590.9	330.3	306.7	287.8	269.4	256.4	249.9	249.4	248.8
52.5°	3369.2	2550.2	565.5	323.2	293.7	274.8	254.7	242.3	234.0	232.2	231.1
55°	3899.3	2994.0	600.3	317.9	280.1	260.0	239.3	226.3	218.6	215.1	214.5
57.5°	4513.1	3527.0	732.7	310.8	267.7	244.1	223.9	210.9	202.6	198.6	197.4
60°	5064.4	4074.7	963.7	306.7	257.1	226.9	206.2	194.4	186.7	182.6	182.0
62.5°	5670.1	4597.1	1239.6	317.9	252.3	210.4	189.6	179.1	172.6	168.4	168.4
65°	6317.2	5120.0	1422.2	355.7	259.4	197.4	171.9	163.1	157.1	154.3	153.6
67.5°	6753.2	5300.8	1171.8	394.7	277.1	183.1	154.8	147.8	144.2	141.3	141.3
69°	6705.9	5072.1	864.4	404.7	282.4	176.1	145.3	140.0	135.3	134.1	133.0
70°	6556.5	4811.5	724.4	398.2	278.3	169.6	139.5	133.0	128.8	127.6	127.0
72.5°	5839.7	4172.8	539.5	346.2	236.9	147.1	123.5	117.6	114.0	112.3	112.3
75°	4851.8	3410.6	421.3	275.4	185.6	124.1	105.8	101.0	98.1	96.9	96.3
77.5°	2719.3	1904.4	302.6	215.6	140.6	100.5	88.6	84.5	81.5	80.3	80.3
80°	757.5	544.2	177.8	142.4	95.8	76.2	70.3	67.3	63.2	60.3	62.0
82.5°	285.4	235.8	101.6	85.7	60.8	50.8	49.0	46.7	44.9	40.8	40.8
85°	138.8	114.6	65.0	45.5	33.7	26.6	25.4	24.2	23.0	20.1	20.7
87.5°	47.8	50.8	28.3	16.5	10.0	6.5	5.3	3.0	3.0	3.0	3.0
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)