

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: P458751

Luminaire Tested: **GALN-SA3A-735-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458751
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3A-735-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10408 lumens
Efficiency: N/A
Efficacy: 111.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

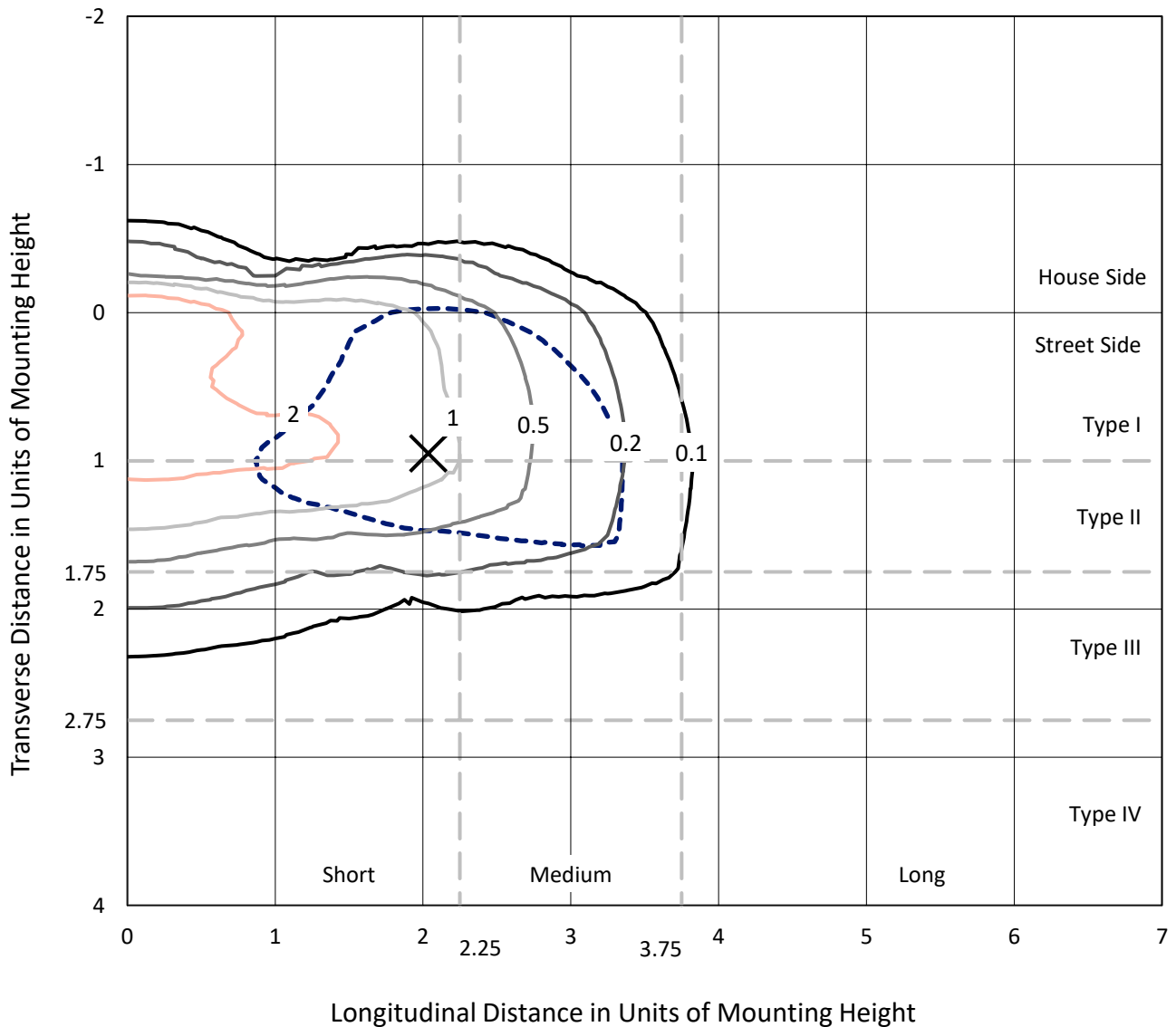
Input Watts (W): 93
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

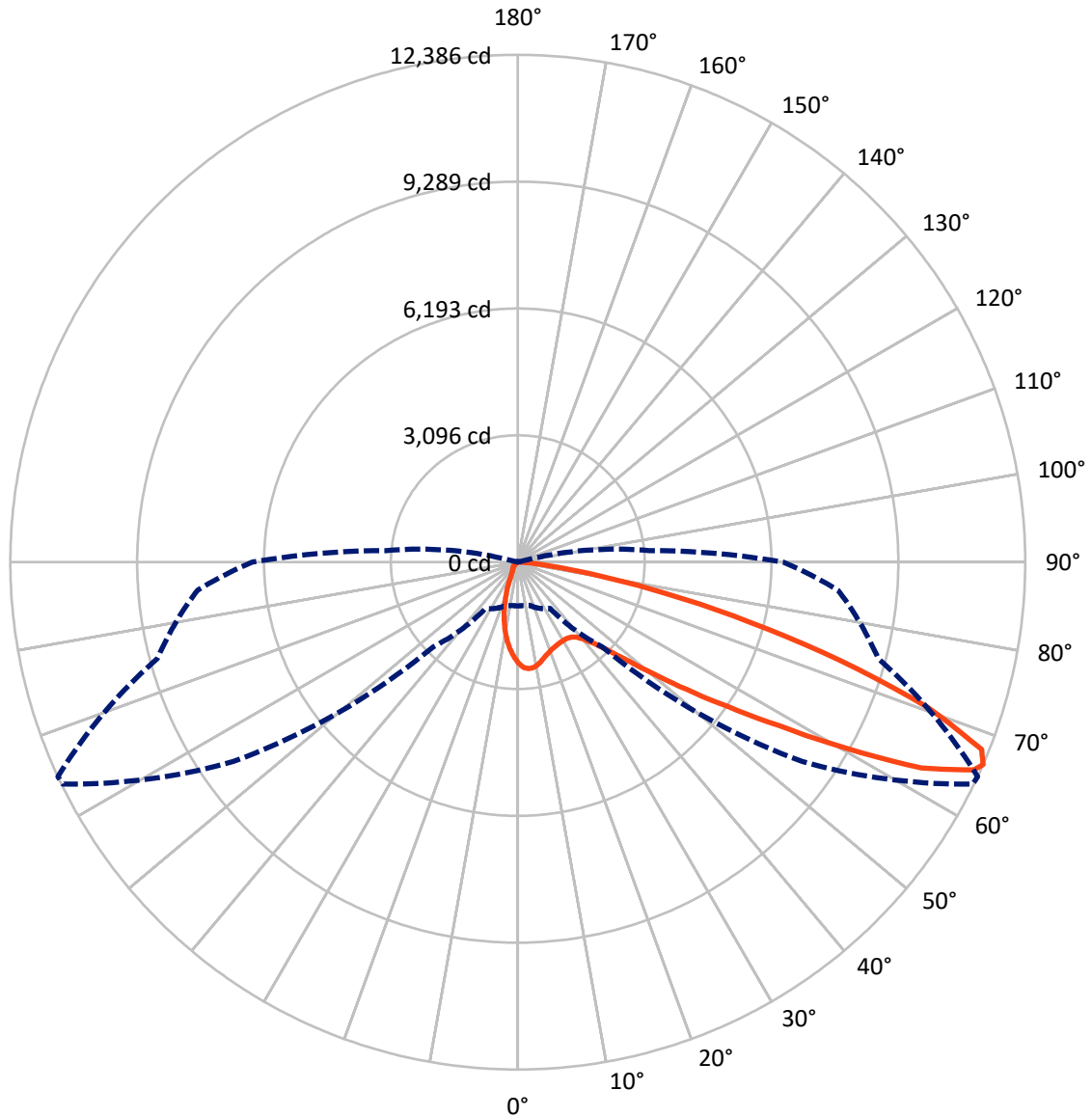
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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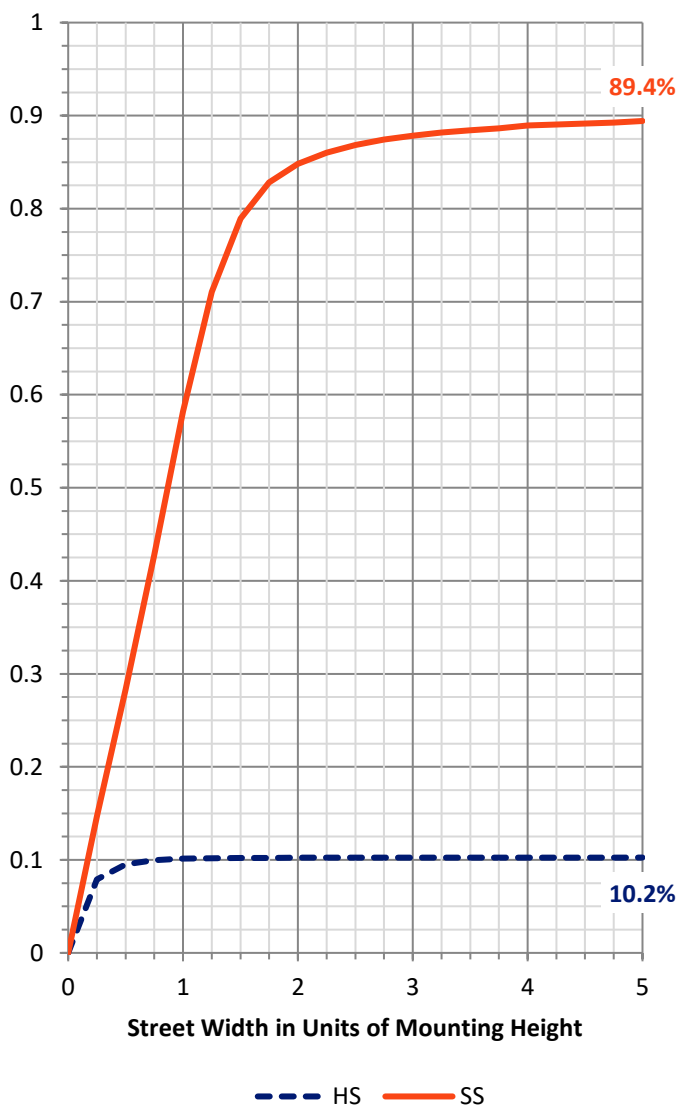
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1076.3	0.0	1076.3
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	9331.7	0.0	9331.7
	% Fixture	89.7	0.0	89.7
Total	Lumens	10408.0	0.0	10408.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	201.9	1.9
10°-20°	439.8	4.2
20°-30°	630.0	6.1
30°-40°	920.2	8.8
40°-50°	1543.0	14.8
50°-60°	2575.1	24.7
60°-70°	2733.4	26.3
70°-80°	1237.9	11.9
80°-90°	126.7	1.2
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°	10408.0	100.0
0°-180°	10408.0	100.0



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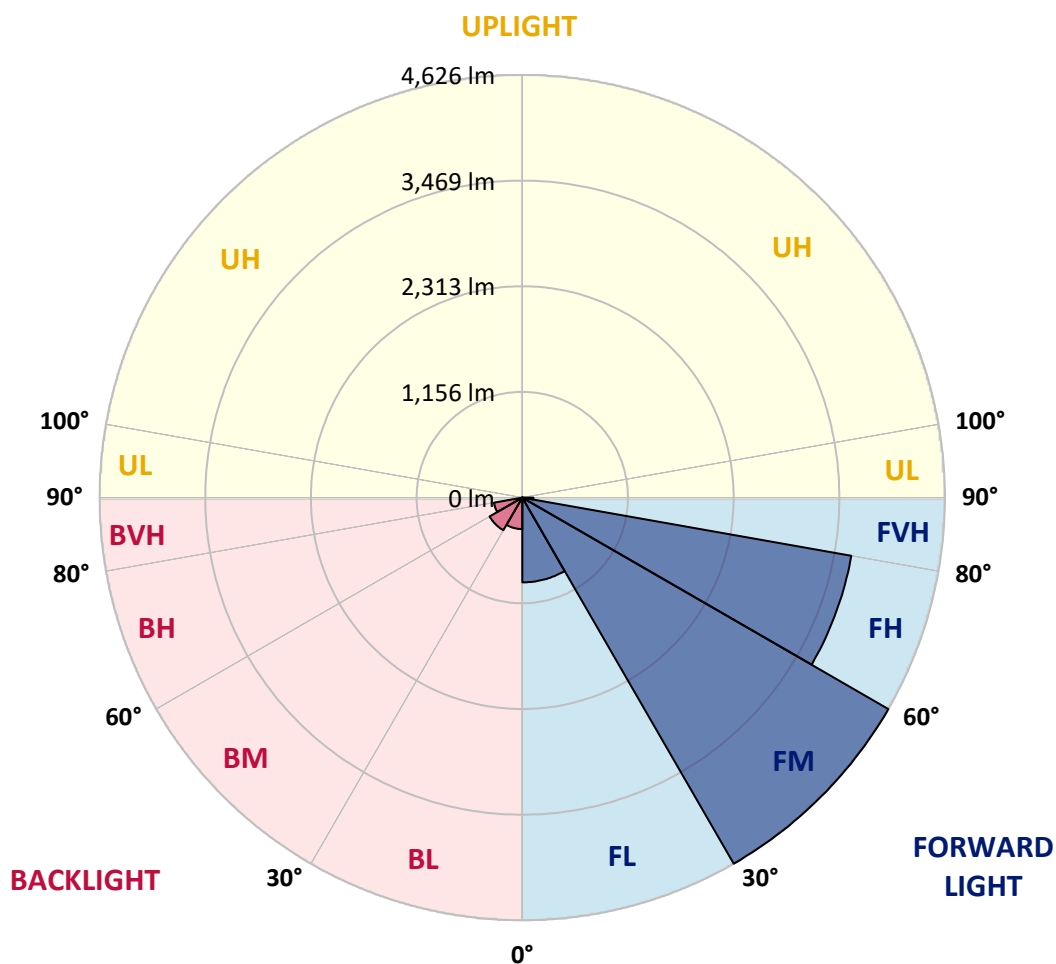
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	927.4	8.9			
FM (30°-60°)	4625.6	44.4			
FH (60°-80°)	3656.1	35.1			G2/5000
FVH (80°-90°)	122.6	1.2			G2/225
BL (0°-30°)	344.3	3.3	B1/500		
BM (30°-60°)	412.8	4.0	B1/1000		
BH (60°-80°)	315.2	3.0	B1/500		G1/500
BVH (80°-90°)	4.0	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	2468.1	2468.1	2468.1	2468.1	2468.1	2468.1	2468.1	2468.1	2468.1	2468.1	2468.1
2.5°	2601.0	2603.8	2607.3	2612.2	2615.7	2605.2	2590.4	2573.6	2570.1	2534.2	2490.6
5°	2461.8	2466.0	2496.9	2513.8	2551.8	2586.2	2608.0	2610.8	2609.4	2575.7	2506.1
7.5°	2263.6	2275.5	2305.7	2335.3	2406.3	2471.6	2549.0	2603.1	2606.6	2597.5	2511.0
10°	2102.6	2110.3	2125.8	2184.1	2243.2	2343.0	2451.2	2553.2	2561.6	2598.2	2506.8
12.5°	1976.7	1988.0	2007.0	2052.0	2123.0	2217.2	2340.2	2477.3	2494.8	2584.8	2494.8
15°	1888.9	1894.5	1913.5	1957.8	2026.7	2113.8	2238.3	2397.8	2413.3	2567.2	2492.7
17.5°	1847.4	1853.7	1867.1	1902.2	1959.2	2040.0	2161.6	2333.9	2353.5	2556.0	2500.5
20°	1858.6	1864.3	1865.0	1883.3	1921.9	1990.1	2105.4	2274.1	2299.4	2549.0	2513.1
22.5°	1922.6	1923.3	1914.9	1906.4	1919.8	1969.0	2070.9	2236.1	2262.2	2547.6	2527.9
25°	2018.2	2020.3	2006.3	1976.7	1950.0	1975.3	2063.2	2211.5	2234.7	2544.0	2537.0
27.5°	2150.4	2149.7	2145.5	2096.3	2020.3	2003.5	2069.5	2198.2	2217.9	2534.2	2540.5
30°	2335.3	2329.6	2320.5	2265.0	2149.0	2071.6	2096.3	2189.7	2208.0	2520.1	2531.4
32.5°	2517.3	2538.4	2537.0	2484.3	2339.5	2193.3	2151.8	2201.0	2214.3	2511.0	2518.0
35°	2729.6	2728.9	2783.1	2763.4	2594.0	2348.6	2246.7	2238.3	2248.8	2517.3	2511.7
37.5°	2926.5	2944.7	3029.1	3049.5	2894.8	2567.9	2381.0	2318.4	2321.9	2560.2	2527.2
40°	3171.8	3206.9	3332.8	3401.0	3264.6	2893.4	2579.2	2465.3	2466.0	2665.7	2585.5
42.5°	3488.1	3543.7	3661.1	3774.9	3701.8	3278.6	2876.5	2698.0	2696.6	2851.2	2719.1
45°	3872.7	3911.3	4044.9	4225.5	4179.1	3816.4	3309.6	3058.6	3040.3	3155.6	2956.0
47.5°	4204.5	4257.2	4392.8	4598.8	4809.7	4473.0	3827.0	3554.2	3542.3	3640.0	3362.3
50°	4349.3	4395.7	4538.4	4827.3	5338.3	5334.8	4597.4	4277.6	4257.2	4309.9	3990.7
52.5°	4190.4	4234.0	4378.1	4738.0	5587.2	6385.1	5713.7	5185.1	5160.5	5093.0	4741.5
55°	3646.3	3682.1	3895.1	4308.5	5491.6	7085.2	7251.8	6306.3	6210.7	5948.5	5591.4
57.5°	2903.3	2885.0	3017.1	3497.3	4930.6	7320.0	8830.7	7703.1	7532.3	6688.0	6310.5
60°	2011.9	2068.1	2121.6	2437.9	3707.5	6913.0	9812.7	9459.1	9234.2	7415.6	6999.5
62.5°	1479.0	1516.3	1551.5	1697.7	2331.0	5519.7	9986.4	11263.0	11063.3	8188.2	7656.7
65°	1169.7	1172.6	1186.6	1330.7	1536.0	3589.4	9151.9	12280.1	12228.8	8931.9	7923.2
66°	1065.7	1066.4	1088.2	1242.8	1378.5	2922.9	8483.4	12357.5	12385.6	9110.5	7845.1
67.5°	931.4	928.6	960.3	1117.0	1255.5	2107.5	7287.0	12044.0	12210.6	9247.5	7564.6
70°	721.9	718.4	757.1	937.1	1156.4	1405.9	4843.4	10341.4	10609.9	8967.1	6693.0
72.5°	480.8	483.6	549.7	739.5	1103.7	1237.9	2913.8	7866.9	8246.5	7405.1	5265.2
75°	280.5	285.4	360.6	549.7	958.1	1180.3	1649.2	5609.7	5852.2	5113.4	3280.0
77.5°	146.9	149.0	201.8	362.7	734.6	1095.9	1098.7	3583.7	3697.6	2485.0	1298.4
80°	78.0	75.9	108.3	218.6	505.4	962.4	891.4	1897.3	1972.5	738.1	328.3
82.5°	29.5	32.3	57.6	143.4	298.8	691.0	767.6	838.6	812.6	162.4	137.8
85°	5.6	7.0	24.6	85.1	150.4	288.9	565.9	411.2	381.0	61.2	79.4
87.5°	0.7	1.4	7.0	20.4	21.8	97.7	167.3	113.9	98.4	22.5	33.0
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°	2468.1	2468.1	2468.1	2468.1	2468.1	2468.1	2468.1	2468.1	2468.1	2468.1	2468.1
2.5°	2469.5	2450.5	2387.3	2324.7	2260.7	2203.1	2163.7	2099.8	2083.6	2060.4	2047.0
5°	2464.6	2420.3	2298.7	2165.8	2042.1	1908.6	1806.6	1708.2	1655.5	1628.8	1618.9
7.5°	2450.5	2380.2	2190.4	1982.4	1784.1	1584.5	1410.9	1278.7	1193.6	1135.3	1095.9
10°	2422.4	2325.4	2064.6	1778.5	1479.0	1215.4	995.4	828.1	698.8	658.0	659.4
12.5°	2393.6	2264.3	1924.0	1552.2	1181.0	848.5	615.1	482.9	421.1	400.7	396.5
15°	2366.9	2205.9	1786.2	1332.8	879.4	549.7	396.5	350.1	333.2	329.7	329.0
17.5°	2352.8	2151.8	1639.3	1081.9	613.7	373.3	317.7	305.1	300.2	296.7	295.2
20°	2340.9	2104.7	1498.7	847.1	419.7	305.8	284.7	272.8	264.3	260.8	258.7
22.5°	2332.4	2056.2	1353.2	655.9	321.3	271.3	252.4	236.9	224.9	220.7	217.9
25°	2319.8	2002.8	1206.3	479.4	270.6	241.1	219.3	201.0	185.6	177.9	176.4
27.5°	2301.5	1942.3	1045.3	355.0	241.8	214.4	187.7	165.2	149.7	141.3	142.0
30°	2272.0	1879.0	884.3	281.9	218.6	187.0	158.2	136.4	121.6	115.3	114.6
32.5°	2236.8	1802.4	736.7	241.8	197.5	162.4	132.2	113.2	101.9	97.0	96.3
35°	2203.8	1725.1	586.3	217.2	175.7	139.9	111.1	94.9	86.5	82.2	83.0
37.5°	2185.5	1656.2	456.9	197.5	158.2	120.2	95.6	81.5	73.8	70.3	69.6
40°	2197.5	1600.0	363.4	180.0	138.5	103.3	82.2	70.3	62.6	57.6	57.6
42.5°	2253.7	1575.4	293.1	163.1	120.2	89.3	71.7	60.5	52.0	47.1	47.8
45°	2425.2	1601.4	245.3	147.6	103.3	77.3	61.9	49.9	42.2	38.7	38.0
47.5°	2709.9	1699.1	212.3	131.5	88.6	66.1	52.0	41.5	33.7	30.9	30.2
50°	3207.6	1900.8	187.7	115.3	75.2	56.2	42.9	33.0	26.7	23.9	23.9
52.5°	3892.3	2340.9	170.1	97.0	63.3	47.8	35.1	26.7	21.1	19.0	18.3
55°	4608.0	2804.8	161.0	81.5	52.7	39.4	28.1	21.1	16.2	14.1	13.4
57.5°	5296.2	3169.0	150.4	66.1	42.2	30.2	21.8	16.2	11.2	9.8	9.1
60°	5956.2	3463.5	127.9	52.7	33.0	21.8	16.2	11.2	7.7	6.3	6.3
62.5°	6546.7	3635.0	100.5	42.2	25.3	15.5	10.5	8.4	5.6	4.2	4.2
65°	6615.6	3412.2	75.9	32.3	18.3	9.8	6.3	6.3	4.2	2.8	2.8
66°	6477.1	3223.1	66.8	29.5	16.2	8.4	5.6	4.9	3.5	2.1	2.1
67.5°	6167.8	2900.4	57.6	25.3	13.4	6.3	4.2	4.2	2.8	1.4	1.4
70°	5329.2	2369.0	45.7	19.0	9.8	4.9	2.8	2.8	2.1	1.4	1.4
72.5°	4061.7	1768.7	37.3	14.1	7.0	3.5	2.1	2.1	2.1	1.4	1.4
75°	2449.8	952.5	28.8	10.5	6.3	2.8	1.4	2.1	2.8	2.1	1.4
77.5°	902.6	324.1	22.5	8.4	4.9	2.8	1.4	1.4	2.8	2.1	2.1
80°	221.4	84.4	16.2	7.0	4.9	2.8	1.4	1.4	2.8	2.8	2.8
82.5°	102.6	35.9	11.2	6.3	4.9	2.8	1.4	1.4	2.1	2.8	2.8
85°	59.0	16.9	9.1	7.0	4.9	2.8	1.4	1.4	2.1	2.8	2.8
87.5°	23.9	8.4	8.4	7.0	5.6	3.5	1.4	1.4	1.4	2.1	2.1
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)