

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: P529052

Luminaire Tested: **GALN-SA4A-830-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529052
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4A-830-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12549 lumens
Efficiency: N/A
Efficacy: 103.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

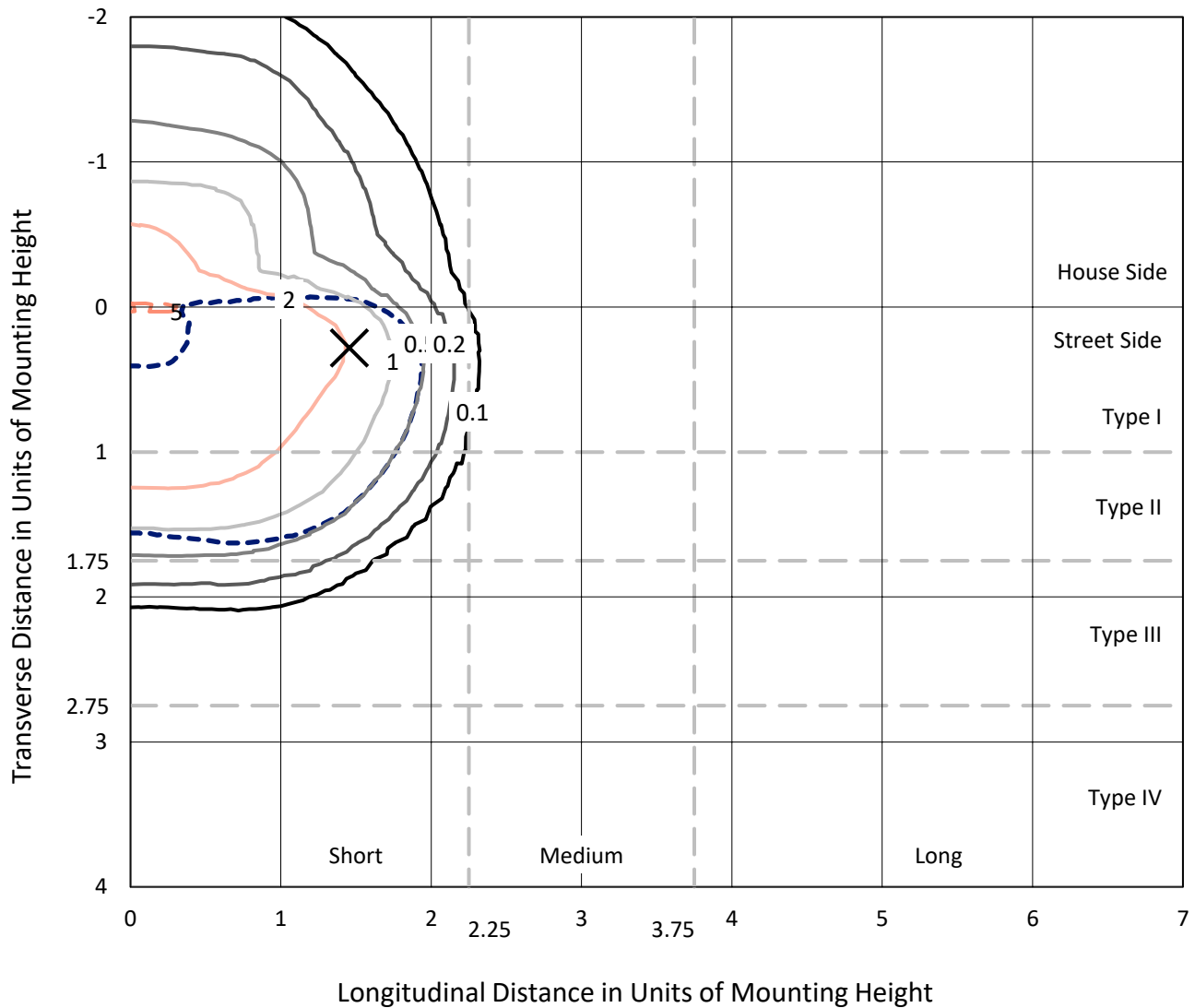
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

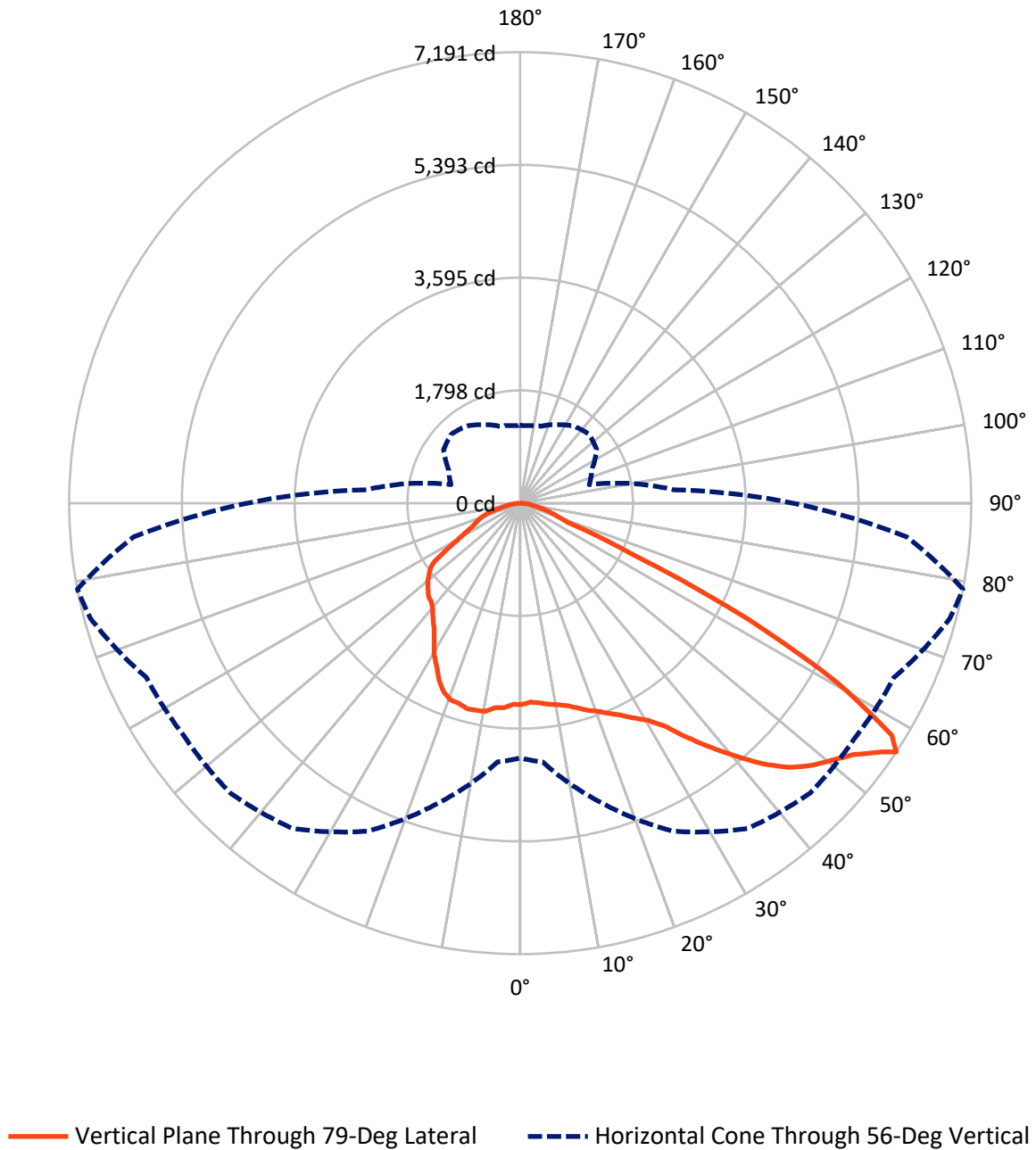


Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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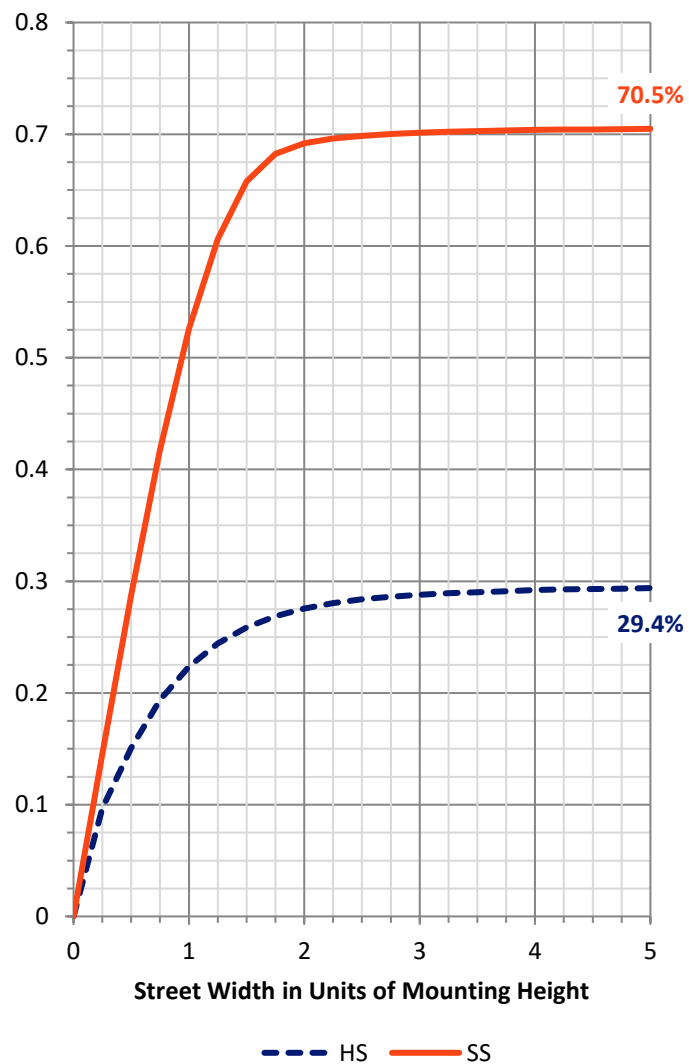
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3706.0	0.0	3706.0
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	8843.0	0.0	8843.0
	% Fixture	70.5	0.0	70.5
Total	Lumens	12549.0	0.0	12549.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	291.9	2.3
10°-20°	798.9	6.4
20°-30°	1366.8	10.9
30°-40°	2094.8	16.7
40°-50°	2831.1	22.6
50°-60°	3251.6	25.9
60°-70°	1482.2	11.8
70°-80°	365.4	2.9
80°-90°	66.4	0.5
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°	12549.0	100.0
0°-180°	12549.0	100.0

Coefficient of Utilization



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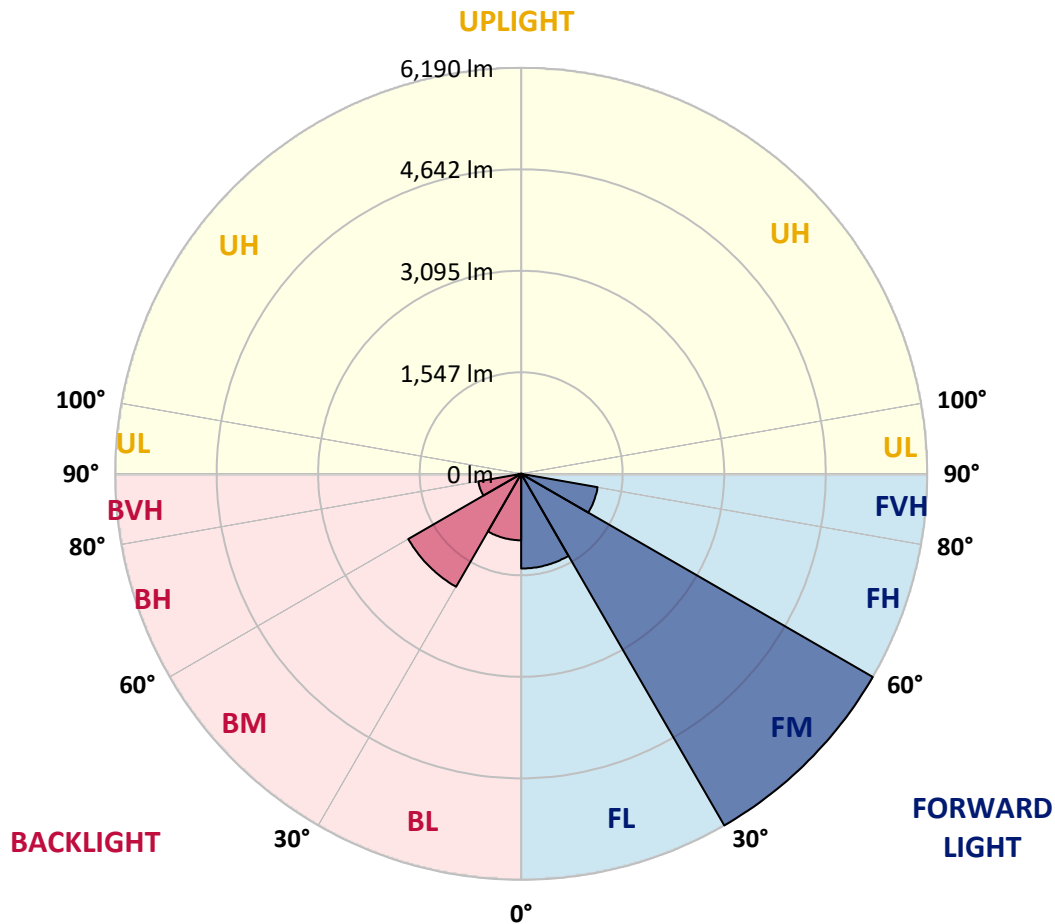
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1443.9	11.5			
FM	(30°-60°)	6189.5	49.3			
FH	(60°-80°)	1183.1	9.4			G1/1800
FVH	(80°-90°)	26.5	0.2			G1/100
BL	(0°-30°)	1013.8	8.1	B3/2500		
BM	(30°-60°)	1987.8	15.8	B2/2500		
BH	(60°-80°)	664.5	5.3	B2/1000		G2/1000
BVH	(80°-90°)	39.9	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	3210.8	3210.8	3210.8	3210.8	3210.8	3210.8	3210.8	3210.8	3210.8	3210.8	3210.8
2.5°	3054.5	3046.7	3065.4	3079.5	3096.7	3118.6	3129.5	3135.8	3190.5	3176.4	3218.6
5°	2988.8	2968.5	2982.6	2993.5	3023.2	3049.8	3079.5	3126.4	3176.4	3198.3	3249.9
7.5°	2931.0	2920.0	2916.9	2924.7	2965.4	2999.8	3051.3	3120.1	3201.4	3237.4	3267.1
10°	2835.6	2820.0	2843.4	2895.0	2906.0	2977.9	3037.3	3135.8	3206.1	3268.6	3356.2
12.5°	2793.4	2777.8	2782.5	2812.2	2888.8	2957.6	3027.9	3138.9	3287.4	3312.4	3429.6
15°	2860.6	2845.0	2849.7	2841.9	2915.3	2951.3	3062.3	3201.4	3343.7	3385.9	3510.9
17.5°	3013.8	3015.4	2995.1	2977.9	2960.7	3037.3	3113.9	3238.9	3365.5	3471.8	3565.6
20°	3306.1	3254.6	3213.9	3117.0	3090.4	3123.3	3220.2	3340.5	3454.6	3542.2	3648.5
22.5°	3531.2	3535.9	3478.1	3318.7	3260.8	3274.9	3357.7	3456.2	3581.3	3643.8	3765.7
25°	3858.0	3825.1	3762.6	3636.0	3506.2	3517.2	3578.1	3667.2	3701.6	3745.4	3878.3
27.5°	4156.5	4165.9	4042.4	3923.6	3762.6	3731.3	3840.8	3856.4	3798.6	3881.4	3926.7
30°	4459.8	4452.0	4370.7	4231.6	4073.7	4079.9	4128.4	4051.8	3972.1	4017.4	4048.7
32.5°	4774.0	4684.9	4681.8	4556.7	4436.3	4378.5	4319.1	4356.6	4233.1	4242.5	4212.8
35°	5025.7	5038.2	4966.3	4877.2	4817.8	4716.1	4553.6	4620.8	4597.3	4586.4	4458.2
37.5°	5208.5	5160.1	5196.0	5166.3	5110.1	4983.4	4814.6	4878.7	4889.7	4942.8	4794.3
40°	5358.6	5338.3	5433.6	5449.3	5410.2	5136.6	4833.4	5024.1	5188.2	5303.9	5127.3
42.5°	5430.5	5474.3	5574.3	5694.7	5607.2	5314.8	4930.3	5135.1	5500.9	5683.8	5443.0
45°	5527.4	5471.2	5619.7	5840.1	5841.6	5464.9	5024.1	5285.1	5744.7	6010.5	5658.7
47.5°	5429.0	5457.1	5610.3	5890.1	5962.0	5622.8	5277.3	5497.7	6013.6	6249.6	5858.8
50°	5208.5	5264.8	5544.6	5835.4	6052.7	5790.1	5568.1	5727.5	6262.1	6441.9	5891.7
52.5°	4978.8	5010.0	5447.7	5877.6	6093.3	6005.8	5957.3	6044.9	6565.4	6659.2	5932.3
55°	4353.5	4502.0	5127.3	5858.8	6291.8	6395.0	6357.5	6485.7	6909.3	7003.1	6154.3
56°	4064.3	4142.5	4935.0	5771.3	6330.9	6537.3	6518.5	6576.3	7092.2	7190.7	6188.7
57.5°	3529.7	3535.9	4208.1	5383.6	6184.0	6579.5	6560.7	6606.0	7056.2	6989.0	5887.0
60°	2208.8	2305.7	2863.8	4140.9	5258.6	6104.3	6210.6	5846.3	5949.5	5807.3	4580.1
62.5°	1144.3	1130.2	1500.7	2421.4	3490.6	4370.7	4469.2	4452.0	4292.5	4084.6	2991.9
65°	570.6	573.7	784.7	1199.0	1788.3	2288.5	2563.6	2593.3	2169.7	1996.2	1419.4
67.5°	414.2	429.9	564.3	733.1	842.6	942.6	1155.2	1133.3	858.2	816.0	756.6
70°	322.0	336.1	458.0	559.6	508.0	508.0	553.4	572.1	611.2	628.4	648.7
72.5°	234.5	245.4	350.2	386.1	333.0	358.0	414.2	458.0	498.7	504.9	528.4
75°	161.0	170.4	229.8	212.6	200.1	247.0	303.3	343.9	373.6	389.2	403.3
77.5°	104.7	107.9	131.3	111.0	128.2	159.4	197.0	231.4	261.1	273.6	276.7
80°	46.9	51.6	56.3	70.3	89.1	114.1	140.7	168.8	187.6	192.3	201.7
82.5°	26.6	26.6	34.4	50.0	65.7	82.8	101.6	121.9	143.8	148.5	146.9
85°	14.1	14.1	20.3	29.7	40.6	48.5	46.9	48.5	51.6	59.4	57.8
87.5°	4.7	4.7	6.3	6.3	7.8	9.4	7.8	10.9	14.1	14.1	14.1
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°	3210.8	3210.8	3210.8	3210.8	3210.8	3210.8	3210.8	3210.8	3210.8	3210.8	3210.8
2.5°	3206.1	3220.2	3201.4	3242.1	3242.1	3234.2	3195.2	3207.7	3217.0	3217.0	3224.9
5°	3267.1	3262.4	3274.9	3226.4	3196.7	3185.8	3121.7	3090.4	3063.9	3062.3	3038.8
7.5°	3301.5	3289.0	3284.3	3248.3	3117.0	3037.3	2899.7	2820.0	2802.8	2741.8	2765.3
10°	3356.2	3379.6	3356.2	3160.8	2977.9	2795.0	2660.5	2537.1	2488.6	2449.5	2426.1
12.5°	3468.7	3457.8	3321.8	3057.6	2801.2	2584.0	2383.9	2254.1	2205.7	2171.3	2168.1
15°	3564.1	3509.4	3301.5	2895.0	2526.1	2294.8	2130.6	2038.4	2016.5	2019.6	2033.7
17.5°	3596.9	3559.4	3195.2	2726.2	2321.3	2049.3	1972.7	1958.7	1979.0	2002.4	2008.7
20°	3648.5	3589.1	3151.4	2496.4	2068.1	1896.1	1891.5	1941.5	1979.0	2013.4	2018.1
22.5°	3756.3	3606.3	3009.1	2279.1	1894.6	1850.8	1896.1	1938.4	1996.2	2024.3	1999.3
25°	3787.6	3568.8	2809.1	2018.1	1785.2	1822.7	1871.1	1929.0	1969.6	1985.3	1996.2
27.5°	3814.2	3510.9	2538.6	1844.6	1750.8	1821.1	1871.1	1919.6	1941.5	1955.6	1968.1
30°	3889.2	3493.7	2304.1	1728.9	1728.9	1789.9	1853.9	1866.4	1896.1	1913.3	1935.2
32.5°	3926.7	3374.9	2063.4	1655.4	1707.0	1805.5	1810.2	1833.6	1835.2	1849.3	1825.8
35°	4025.2	3290.5	1839.9	1602.3	1716.4	1789.9	1813.3	1799.2	1722.6	1685.1	1692.9
37.5°	4097.1	3248.3	1678.9	1596.0	1717.9	1807.0	1819.6	1713.3	1633.5	1571.0	1586.6
40°	4291.0	3143.6	1556.9	1585.1	1732.0	1825.8	1791.4	1675.7	1531.9	1467.8	1456.9
42.5°	4439.5	3068.5	1480.3	1572.6	1743.0	1852.4	1777.3	1600.7	1453.8	1394.4	1410.0
45°	4611.4	3051.3	1439.7	1575.7	1761.7	1866.4	1760.2	1542.9	1386.5	1363.1	1358.4
47.5°	4672.4	2927.9	1395.9	1549.1	1757.0	1861.8	1702.3	1499.1	1361.5	1364.7	1377.2
50°	4570.8	2801.2	1363.1	1494.4	1725.8	1819.6	1611.6	1441.3	1347.5	1386.5	1408.4
52.5°	4441.0	2671.5	1295.9	1420.9	1661.7	1753.9	1569.4	1438.1	1333.4	1320.9	1325.6
55°	4480.1	2565.2	1202.1	1320.9	1558.5	1632.0	1522.5	1408.4	1299.0	1252.1	1267.7
56°	4353.5	2455.8	1141.1	1258.4	1488.2	1553.8	1499.1	1381.9	1270.9	1239.6	1239.6
57.5°	3995.5	2088.4	1061.4	1158.3	1339.7	1417.8	1453.8	1366.2	1239.6	1184.9	1186.5
60°	2946.6	1485.0	952.0	1020.8	1109.9	1172.4	1339.7	1322.5	1161.5	1123.9	1109.9
62.5°	1816.4	1084.9	873.8	900.4	945.7	997.3	1169.3	1197.4	1078.6	1038.0	1028.6
65°	1017.6	830.1	814.4	825.4	847.2	873.8	970.7	1033.3	952.0	889.5	886.3
67.5°	744.1	742.5	755.0	764.4	773.8	773.8	797.2	822.2	811.3	761.3	756.6
70°	661.2	665.9	675.3	676.9	680.0	669.0	650.3	642.5	655.0	623.7	617.5
72.5°	545.6	561.2	572.1	573.7	556.5	542.4	517.4	490.8	481.5	475.2	473.6
75°	418.9	429.9	434.6	433.0	426.8	406.4	376.7	350.2	333.0	314.2	323.6
77.5°	282.9	298.6	306.4	306.4	297.0	265.7	251.7	231.4	214.2	193.8	197.0
80°	198.5	209.5	222.0	220.4	204.8	189.1	168.8	150.1	136.0	120.4	118.8
82.5°	148.5	154.8	161.0	157.9	146.9	131.3	117.2	100.0	84.4	73.5	73.5
85°	53.1	57.8	70.3	73.5	79.7	79.7	67.2	56.3	45.3	37.5	37.5
87.5°	15.6	15.6	17.2	17.2	15.6	17.2	14.1	15.6	17.2	10.9	10.9
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)