

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: P527180

Luminaire Tested: **GALN-SA2A-830-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527180
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-SA2A-830-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 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: 6379 lumens
Efficiency: N/A
Efficacy: 101.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

Input Watts (W): 63
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

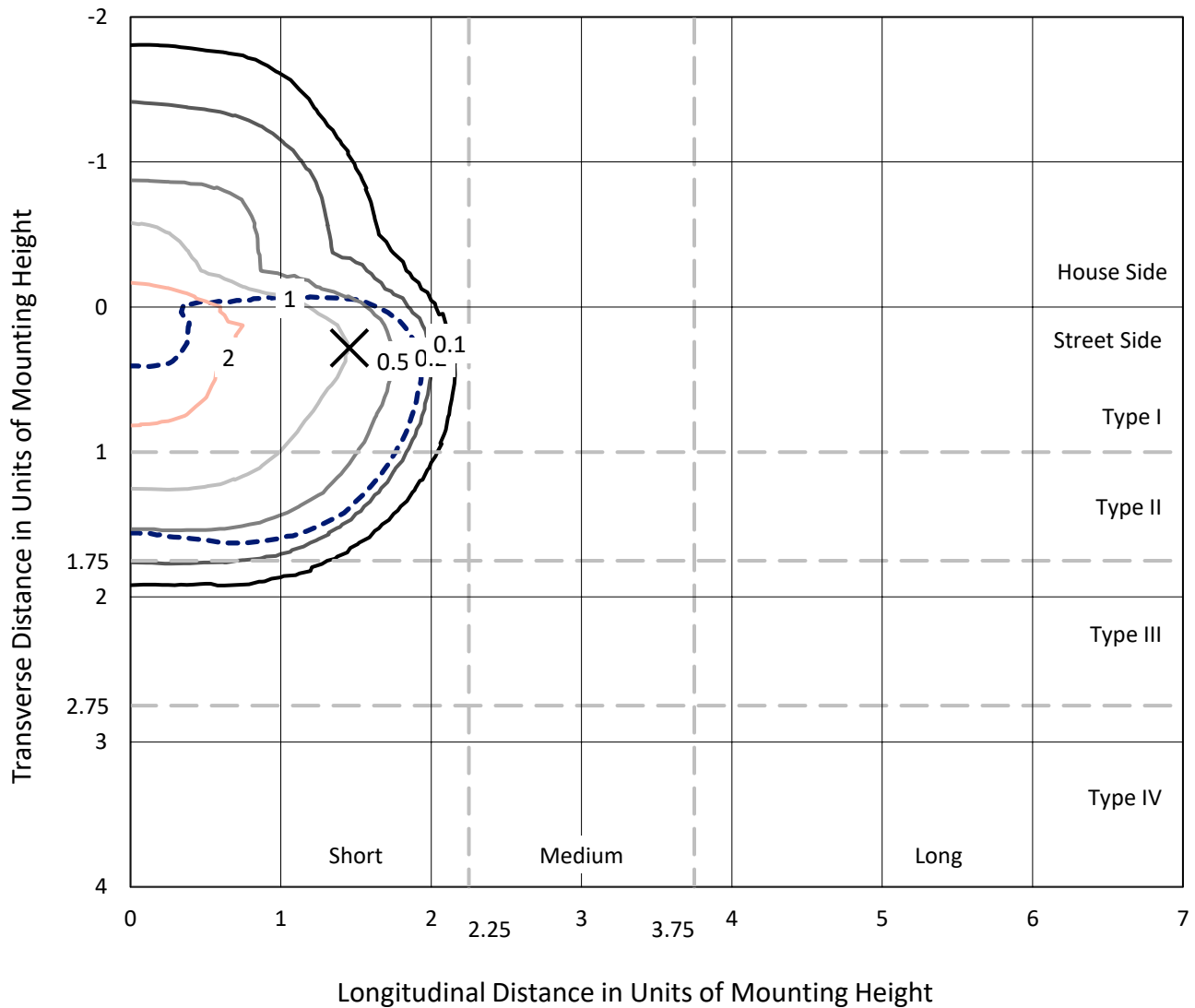


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Iso-Footcandle Lines of Horizontal Illumination

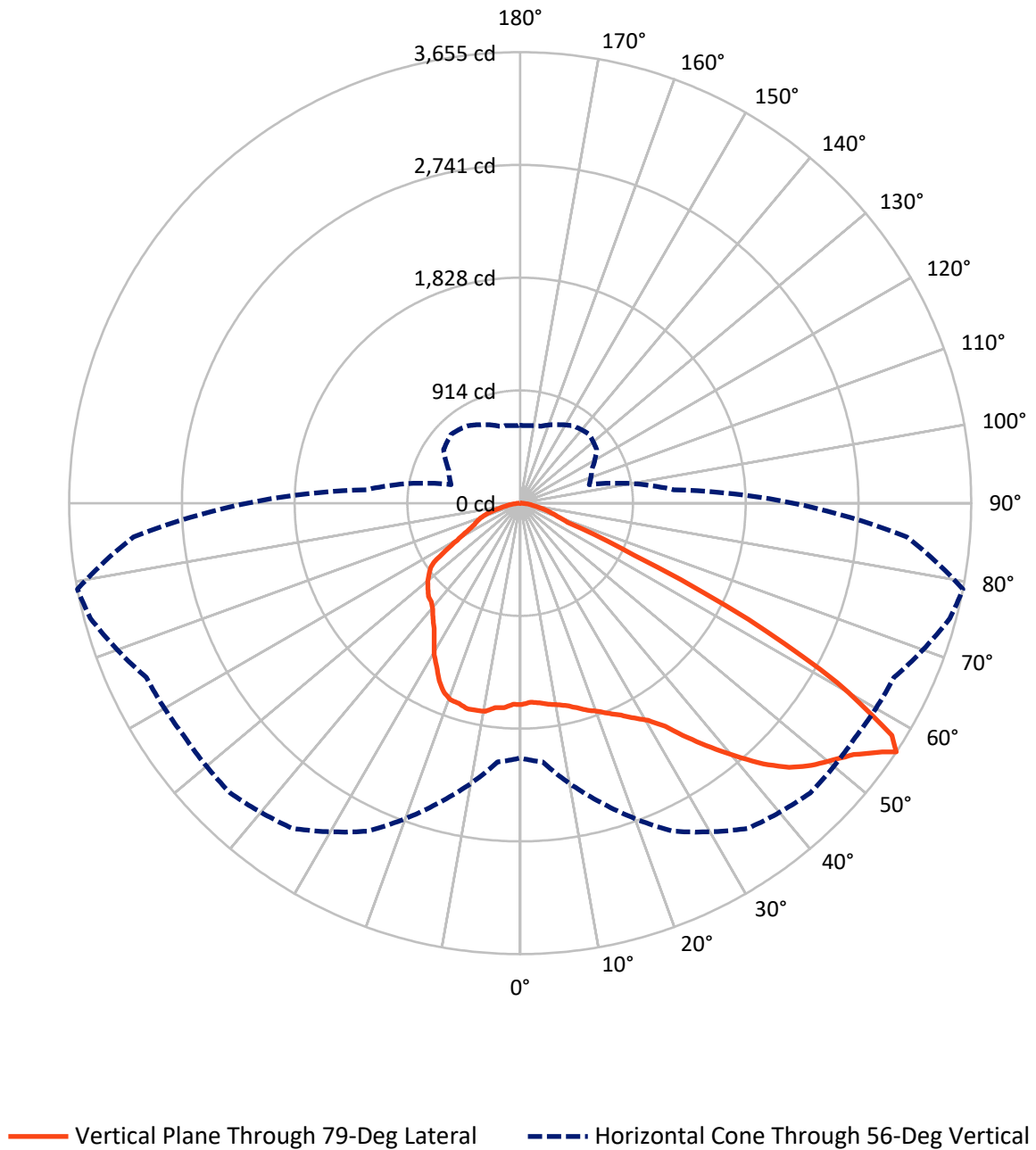
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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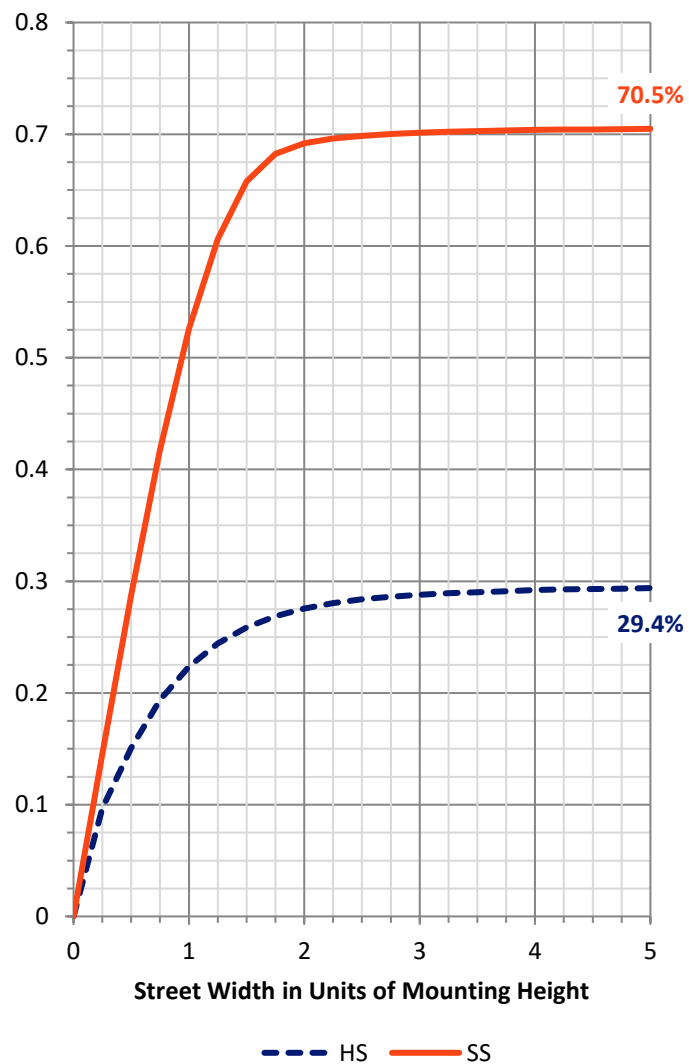
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1883.9	0.0	1883.9
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	4495.1	0.0	4495.1
	% Fixture	70.5	0.0	70.5
Total	Lumens	6379.0	0.0	6379.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.4	2.3
10°-20°	406.1	6.4
20°-30°	694.8	10.9
30°-40°	1064.8	16.7
40°-50°	1439.1	22.6
50°-60°	1652.9	25.9
60°-70°	753.4	11.8
70°-80°	185.8	2.9
80°-90°	33.8	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°	6379.0	100.0
0°-180°	6379.0	100.0

Coefficient of Utilization



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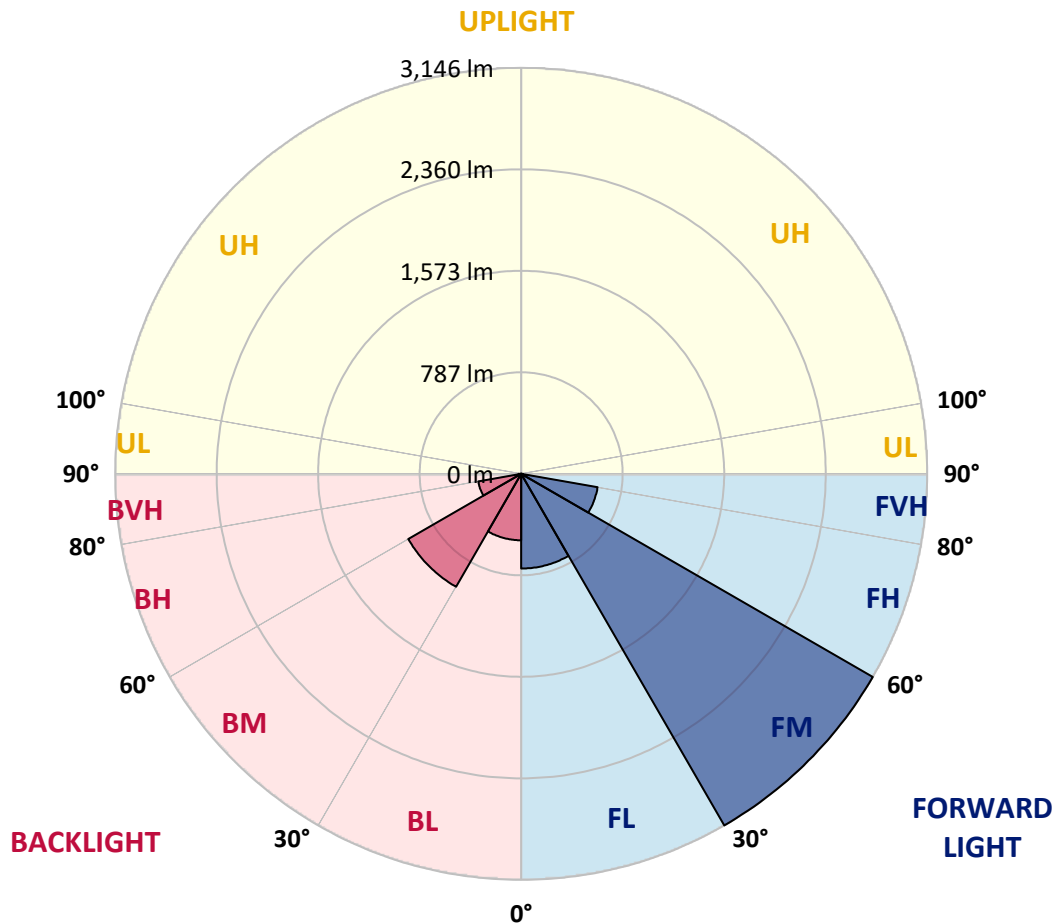
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	734.0	11.5			
FM	(30°-60°)	3146.3	49.3			
FH	(60°-80°)	601.4	9.4			G0/660
FVH	(80°-90°)	13.5	0.2			G1/100
BL	(0°-30°)	515.3	8.1	B2/1000		
BM	(30°-60°)	1010.5	15.8	B2/2500		
BH	(60°-80°)	337.8	5.3	B1/500		G1/500
BVH	(80°-90°)	20.3	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-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	1632.1	1632.1	1632.1	1632.1	1632.1	1632.1	1632.1	1632.1	1632.1	1632.1	1632.1
2.5°	1552.7	1548.7	1558.2	1565.4	1574.1	1585.3	1590.8	1594.0	1621.8	1614.7	1636.1
5°	1519.3	1509.0	1516.1	1521.7	1536.8	1550.3	1565.4	1589.2	1614.7	1625.8	1652.0
7.5°	1489.9	1484.3	1482.7	1486.7	1507.4	1524.9	1551.1	1586.0	1627.4	1645.6	1660.7
10°	1441.4	1433.5	1445.4	1471.6	1477.2	1513.7	1543.9	1594.0	1629.7	1661.5	1706.0
12.5°	1420.0	1412.0	1414.4	1429.5	1468.4	1503.4	1539.2	1595.6	1671.1	1683.8	1743.4
15°	1454.1	1446.2	1448.6	1444.6	1482.0	1500.2	1556.6	1627.4	1699.7	1721.1	1784.7
17.5°	1532.0	1532.8	1522.5	1513.7	1505.0	1543.9	1582.9	1646.4	1710.8	1764.8	1812.5
20°	1680.6	1654.4	1633.7	1584.5	1570.9	1587.6	1636.9	1698.1	1756.1	1800.6	1854.6
22.5°	1795.0	1797.4	1768.0	1687.0	1657.6	1664.7	1706.8	1756.9	1820.5	1852.2	1914.2
25°	1961.1	1944.4	1912.6	1848.3	1782.3	1787.9	1818.9	1864.2	1881.6	1903.9	1971.4
27.5°	2112.9	2117.6	2054.9	1994.5	1912.6	1896.7	1952.4	1960.3	1930.9	1973.0	1996.1
30°	2267.0	2263.1	2221.7	2151.0	2070.8	2073.9	2098.6	2059.6	2019.1	2042.2	2058.0
32.5°	2426.7	2381.5	2379.9	2316.3	2255.1	2225.7	2195.5	2214.6	2151.8	2156.6	2141.5
35°	2554.7	2561.0	2524.5	2479.2	2449.0	2397.3	2314.7	2348.9	2337.0	2331.4	2266.2
37.5°	2647.6	2623.0	2641.3	2626.2	2597.6	2533.2	2447.4	2480.0	2485.5	2512.6	2437.1
40°	2723.9	2713.6	2762.1	2770.0	2750.2	2611.1	2456.9	2553.9	2637.3	2696.1	2606.3
42.5°	2760.5	2782.7	2833.6	2894.8	2850.3	2701.7	2506.2	2610.3	2796.2	2889.2	2766.8
45°	2809.7	2781.1	2856.6	2968.7	2969.5	2778.0	2553.9	2686.6	2920.2	3055.3	2876.5
47.5°	2759.7	2774.0	2851.9	2994.1	3030.7	2858.2	2682.6	2794.7	3056.9	3176.9	2978.2
50°	2647.6	2676.3	2818.5	2966.3	3076.7	2943.2	2830.4	2911.5	3183.2	3274.6	2994.9
52.5°	2530.8	2546.7	2769.2	2987.7	3097.4	3052.9	3028.3	3072.8	3337.4	3385.0	3015.6
55°	2213.0	2288.5	2606.3	2978.2	3198.3	3250.8	3231.7	3296.8	3512.2	3559.9	3128.4
56°	2066.0	2105.7	2508.6	2933.7	3218.2	3323.1	3313.5	3342.9	3605.2	3655.2	3145.9
57.5°	1794.2	1797.4	2139.1	2736.6	3143.5	3344.5	3335.0	3358.0	3586.9	3552.7	2992.5
60°	1122.8	1172.1	1455.7	2104.9	2673.1	3103.0	3157.0	2971.8	3024.3	2952.0	2328.2
62.5°	581.7	574.5	762.8	1230.9	1774.4	2221.7	2271.8	2263.1	2182.0	2076.3	1520.9
65°	290.0	291.6	398.9	609.5	909.0	1163.3	1303.2	1318.3	1102.9	1014.7	721.5
67.5°	210.6	218.5	286.9	372.7	428.3	479.2	587.2	576.1	436.2	414.8	384.6
70°	163.7	170.8	232.8	284.5	258.2	258.2	281.3	290.8	310.7	319.4	329.8
72.5°	119.2	124.8	178.0	196.3	169.3	182.0	210.6	232.8	253.5	256.7	268.6
75°	81.8	86.6	116.8	108.1	101.7	125.5	154.2	174.8	189.9	197.9	205.0
77.5°	53.2	54.8	66.7	56.4	65.2	81.1	100.1	117.6	132.7	139.1	140.6
80°	23.8	26.2	28.6	35.8	45.3	58.0	71.5	85.8	95.4	97.7	102.5
82.5°	13.5	13.5	17.5	25.4	33.4	42.1	51.6	62.0	73.1	75.5	74.7
85°	7.2	7.2	10.3	15.1	20.7	24.6	23.8	24.6	26.2	30.2	29.4
87.5°	2.4	2.4	3.2	3.2	4.0	4.8	4.0	5.6	7.2	7.2	7.2
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°	1632.1	1632.1	1632.1	1632.1	1632.1	1632.1	1632.1	1632.1	1632.1	1632.1	1632.1
2.5°	1629.7	1636.9	1627.4	1648.0	1648.0	1644.1	1624.2	1630.5	1635.3	1635.3	1639.3
5°	1660.7	1658.4	1664.7	1640.1	1625.0	1619.4	1586.8	1570.9	1557.4	1556.6	1544.7
7.5°	1678.2	1671.9	1669.5	1651.2	1584.5	1543.9	1474.0	1433.5	1424.7	1393.7	1405.7
10°	1706.0	1718.0	1706.0	1606.7	1513.7	1420.8	1352.4	1289.7	1265.0	1245.2	1233.2
12.5°	1763.2	1757.7	1688.6	1554.3	1423.9	1313.5	1211.8	1145.8	1121.2	1103.7	1102.1
15°	1811.7	1783.9	1678.2	1471.6	1284.1	1166.5	1083.1	1036.2	1025.0	1026.6	1033.8
17.5°	1828.4	1809.3	1624.2	1385.8	1180.0	1041.7	1002.8	995.6	1006.0	1017.9	1021.1
20°	1854.6	1824.4	1601.9	1269.0	1051.3	963.9	961.5	986.9	1006.0	1023.5	1025.8
22.5°	1909.5	1833.2	1529.6	1158.5	963.1	940.8	963.9	985.3	1014.7	1029.0	1016.3
25°	1925.3	1814.1	1427.9	1025.8	907.4	926.5	951.2	980.6	1001.2	1009.2	1014.7
27.5°	1938.9	1784.7	1290.5	937.6	890.0	925.7	951.2	975.8	986.9	994.1	1000.4
30°	1977.0	1776.0	1171.3	878.8	878.8	909.8	942.4	948.8	963.9	972.6	983.7
32.5°	1996.1	1715.6	1048.9	841.5	867.7	917.8	920.2	932.1	932.9	940.0	928.1
35°	2046.1	1672.7	935.3	814.5	872.5	909.8	921.8	914.6	875.7	856.6	860.6
37.5°	2082.7	1651.2	853.4	811.3	873.3	918.6	924.9	870.9	830.4	798.6	806.5
40°	2181.2	1598.0	791.4	805.7	880.4	928.1	910.6	851.8	778.7	746.1	740.6
42.5°	2256.7	1559.8	752.5	799.4	886.0	941.6	903.5	813.7	739.0	708.8	716.7
45°	2344.1	1551.1	731.8	801.0	895.5	948.8	894.7	784.3	704.8	692.9	690.5
47.5°	2375.1	1488.3	709.6	787.5	893.1	946.4	865.3	762.0	692.1	693.7	700.1
50°	2323.4	1423.9	692.9	759.6	877.3	924.9	819.2	732.6	685.0	704.8	715.9
52.5°	2257.5	1358.0	658.7	722.3	844.7	891.6	797.8	731.0	677.8	671.4	673.8
55°	2277.4	1304.0	611.1	671.4	792.2	829.6	774.0	715.9	660.3	636.5	644.4
56°	2213.0	1248.3	580.1	639.7	756.5	789.8	762.0	702.4	646.0	630.1	630.1
57.5°	2031.0	1061.6	539.5	588.8	681.0	720.7	739.0	694.5	630.1	602.3	603.1
60°	1497.8	754.9	483.9	518.9	564.2	596.0	681.0	672.2	590.4	571.3	564.2
62.5°	923.3	551.5	444.2	457.7	480.7	507.0	594.4	608.7	548.3	527.6	522.9
65°	517.3	421.9	414.0	419.6	430.7	444.2	493.5	525.2	483.9	452.1	450.5
67.5°	378.2	377.4	383.8	388.6	393.3	393.3	405.3	418.0	412.4	387.0	384.6
70°	336.1	338.5	343.3	344.1	345.7	340.1	330.6	326.6	332.9	317.1	313.9
72.5°	277.3	285.3	290.8	291.6	282.9	275.7	263.0	249.5	244.7	241.6	240.8
75°	213.0	218.5	220.9	220.1	216.9	206.6	191.5	178.0	169.3	159.7	164.5
77.5°	143.8	151.8	155.7	155.7	151.0	135.1	127.9	117.6	108.9	98.5	100.1
80°	100.9	106.5	112.8	112.0	104.1	96.1	85.8	76.3	69.1	61.2	60.4
82.5°	75.5	78.7	81.8	80.3	74.7	66.7	59.6	50.9	42.9	37.3	37.3
85°	27.0	29.4	35.8	37.3	40.5	40.5	34.2	28.6	23.0	19.1	19.1
87.5°	7.9	7.9	8.7	8.7	7.9	8.7	7.2	7.9	8.7	5.6	5.6
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)