

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: P527414

Luminaire Tested: **GALN-SA2B-830-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527414
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-SA2B-830-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 800mA 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: 7938 lumens
Efficiency: N/A
Efficacy: 96.8 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): 82
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

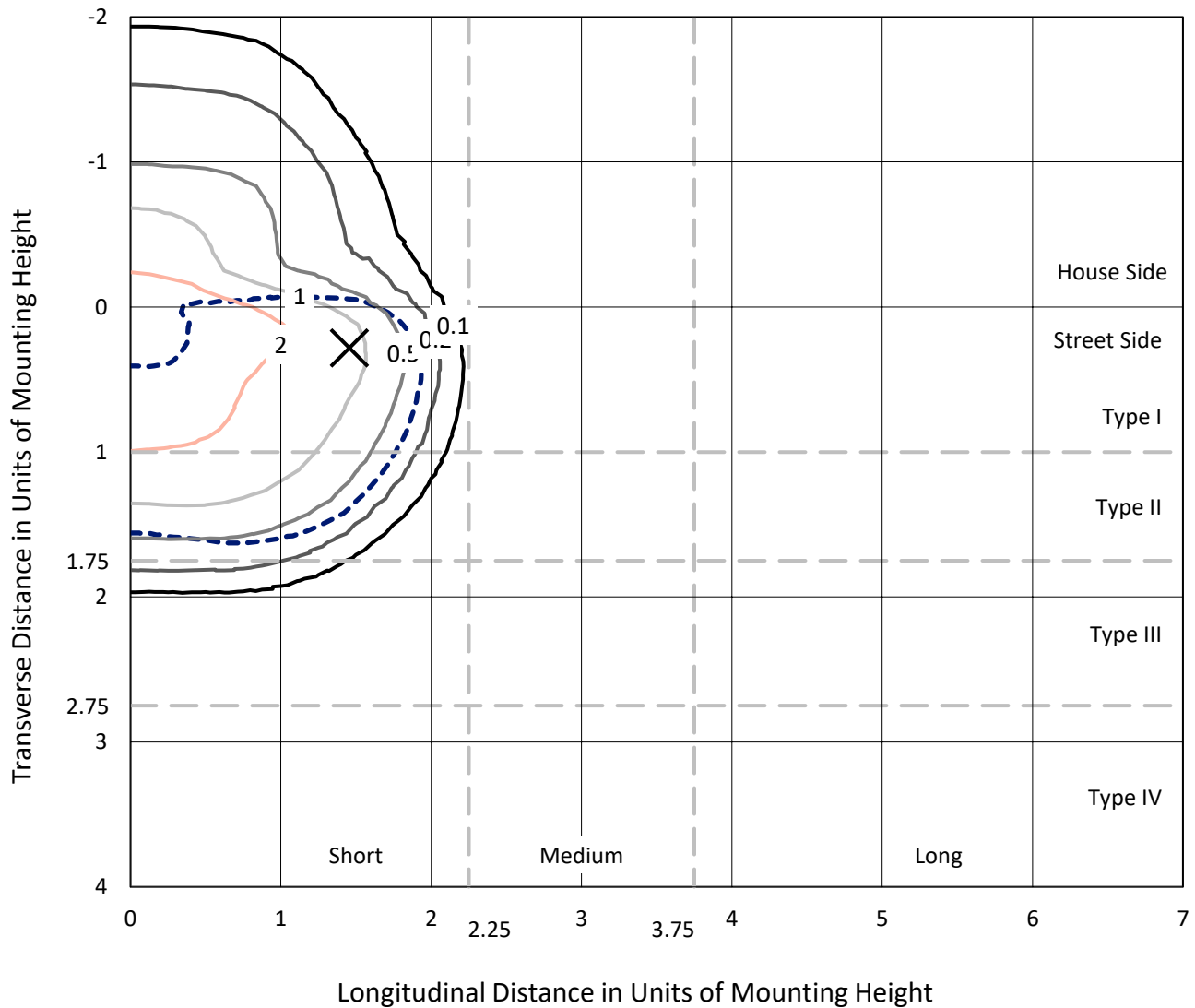


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

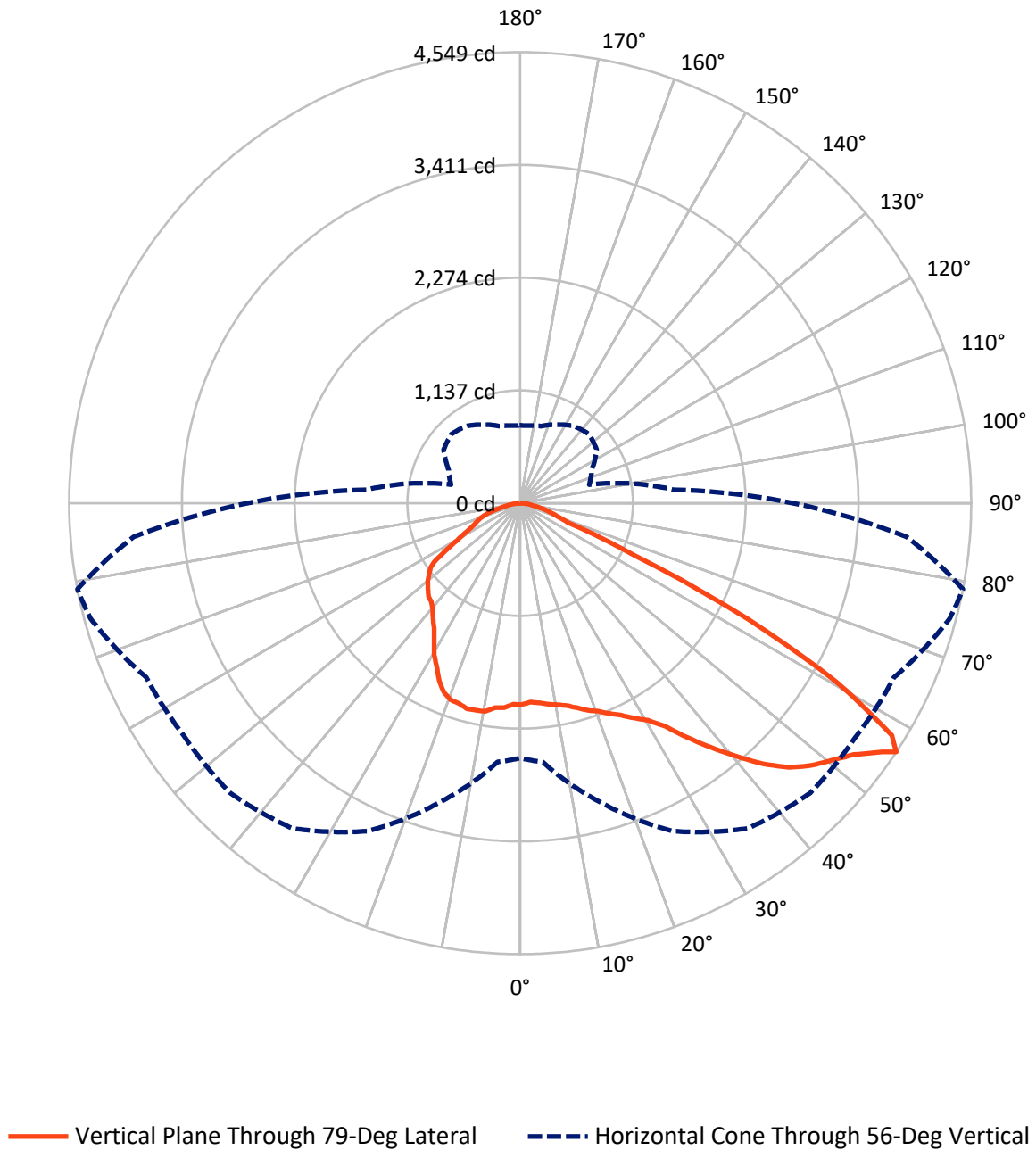


Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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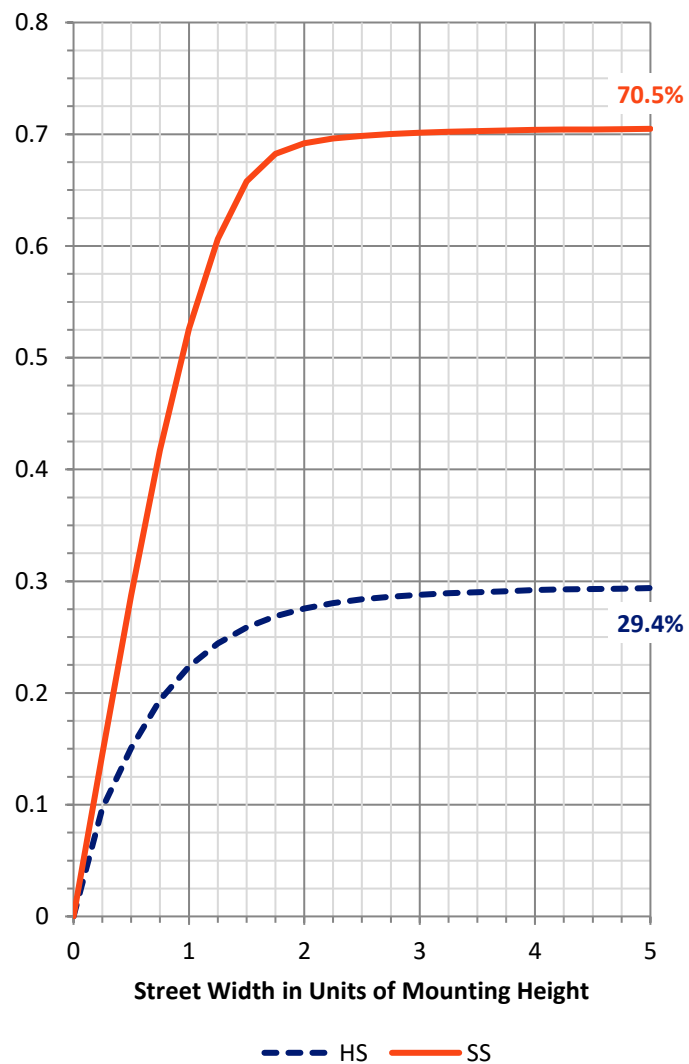
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2344.3	0.0	2344.3
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	5593.7	0.0	5593.7
	% Fixture	70.5	0.0	70.5
Total	Lumens	7938.0	0.0	7938.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.7	2.3
10°-20°	505.4	6.4
20°-30°	864.6	10.9
30°-40°	1325.1	16.7
40°-50°	1790.8	22.6
50°-60°	2056.8	25.9
60°-70°	937.6	11.8
70°-80°	231.2	2.9
80°-90°	42.0	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°	7938.0	100.0
0°-180°	7938.0	100.0

Coefficient of Utilization



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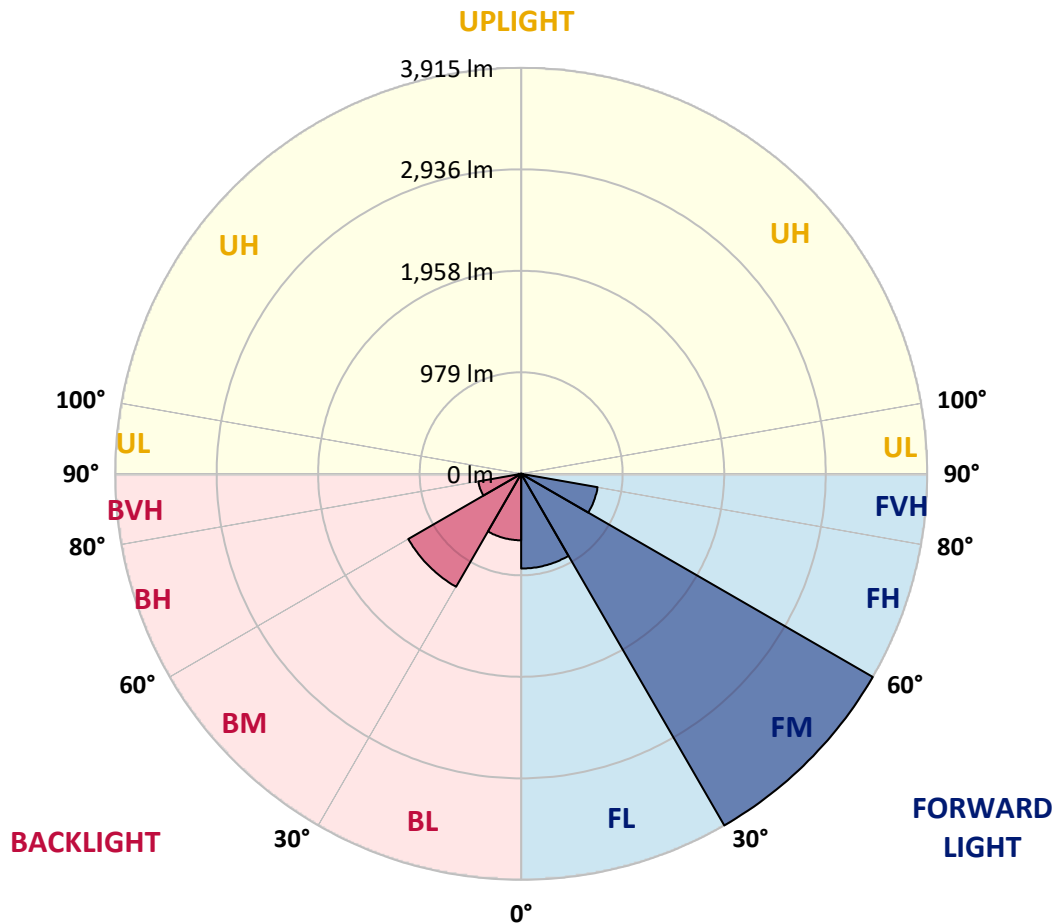
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	913.3	11.5			
FM	(30°-60°)	3915.3	49.3			
FH	(60°-80°)	748.4	9.4			G1/1800
FVH	(80°-90°)	16.8	0.2			G1/100
BL	(0°-30°)	641.3	8.1	B2/1000		
BM	(30°-60°)	1257.4	15.8	B2/2500		
BH	(60°-80°)	420.3	5.3	B1/500		G1/500
BVH	(80°-90°)	25.2	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°	2031.0	2031.0	2031.0	2031.0	2031.0	2031.0	2031.0	2031.0	2031.0	2031.0	2031.0
2.5°	1932.1	1927.2	1939.1	1948.0	1958.8	1972.7	1979.6	1983.6	2018.2	2009.3	2036.0
5°	1890.6	1877.8	1886.7	1893.6	1912.4	1929.2	1948.0	1977.6	2009.3	2023.1	2055.7
7.5°	1854.0	1847.1	1845.1	1850.1	1875.8	1897.5	1930.2	1973.7	2025.1	2047.8	2066.6
10°	1793.7	1783.8	1798.6	1831.3	1838.2	1883.7	1921.3	1983.6	2028.1	2067.6	2123.0
12.5°	1767.0	1757.1	1760.1	1778.9	1827.3	1870.8	1915.3	1985.5	2079.5	2095.3	2169.5
15°	1809.5	1799.6	1802.6	1797.7	1844.1	1866.9	1937.1	2025.1	2115.1	2141.8	2220.9
17.5°	1906.4	1907.4	1894.6	1883.7	1872.8	1921.3	1969.7	2048.8	2128.9	2196.2	2255.5
20°	2091.3	2058.7	2033.0	1971.7	1954.9	1975.6	2037.0	2113.1	2185.3	2240.6	2307.9
22.5°	2233.7	2236.7	2200.1	2099.2	2062.7	2071.6	2124.0	2186.3	2265.4	2304.9	2382.0
25°	2440.4	2419.6	2380.1	2300.0	2217.9	2224.8	2263.4	2319.8	2341.5	2369.2	2453.2
27.5°	2629.3	2635.2	2557.1	2481.9	2380.1	2360.3	2429.5	2439.4	2402.8	2455.2	2483.9
30°	2821.1	2816.1	2764.7	2676.7	2576.8	2580.8	2611.5	2563.0	2512.6	2541.2	2561.0
32.5°	3019.8	2963.5	2961.5	2882.4	2806.2	2769.7	2732.1	2755.8	2677.7	2683.6	2664.8
35°	3179.0	3186.9	3141.5	3085.1	3047.5	2983.2	2880.4	2922.9	2908.1	2901.2	2820.1
37.5°	3294.7	3264.1	3286.8	3268.0	3232.4	3152.3	3045.5	3086.1	3093.0	3126.6	3032.7
40°	3389.6	3376.8	3437.1	3447.0	3422.3	3249.2	3057.4	3178.0	3281.9	3355.0	3243.3
42.5°	3435.1	3462.8	3526.1	3602.2	3546.9	3362.0	3118.7	3248.2	3479.6	3595.3	3443.0
45°	3496.4	3460.8	3554.8	3694.2	3695.2	3456.9	3178.0	3343.2	3633.9	3802.0	3579.5
47.5°	3434.1	3451.9	3548.8	3725.8	3771.3	3556.8	3338.2	3477.7	3804.0	3953.3	3706.1
50°	3294.7	3330.3	3507.3	3691.2	3828.7	3662.6	3522.1	3623.0	3961.2	4074.9	3726.8
52.5°	3149.4	3169.1	3446.0	3717.9	3854.4	3799.0	3768.4	3823.7	4153.0	4212.3	3752.5
55°	2753.8	2847.8	3243.3	3706.1	3980.0	4045.2	4021.5	4102.6	4370.5	4429.9	3893.0
56°	2570.9	2620.4	3121.7	3650.7	4004.7	4135.2	4123.3	4159.9	4486.2	4548.5	3914.7
57.5°	2232.7	2236.7	2661.9	3405.5	3911.7	4161.9	4150.0	4178.7	4463.5	4421.0	3723.9
60°	1397.2	1458.5	1811.5	2619.4	3326.4	3861.3	3928.6	3698.2	3763.4	3673.4	2897.2
62.5°	723.8	714.9	949.3	1531.7	2208.0	2764.7	2827.0	2816.1	2715.3	2583.8	1892.6
65°	360.9	362.9	496.4	758.4	1131.2	1447.6	1621.7	1640.4	1372.5	1262.7	897.8
67.5°	262.0	271.9	357.0	463.8	533.0	596.3	730.7	716.9	542.9	516.2	478.6
70°	203.7	212.6	289.7	354.0	321.4	321.4	350.0	361.9	386.6	397.5	410.4
72.5°	148.3	155.2	221.5	244.2	210.6	226.4	262.0	289.7	315.4	319.4	334.2
75°	101.8	107.8	145.4	134.5	126.6	156.2	191.8	217.5	236.3	246.2	255.1
77.5°	66.3	68.2	83.1	70.2	81.1	100.9	124.6	146.3	165.1	173.0	175.0
80°	29.7	32.6	35.6	44.5	56.4	72.2	89.0	106.8	118.7	121.6	127.6
82.5°	16.8	16.8	21.8	31.6	41.5	52.4	64.3	77.1	91.0	93.9	92.9
85°	8.9	8.9	12.9	18.8	25.7	30.7	29.7	30.7	32.6	37.6	36.6
87.5°	3.0	3.0	4.0	4.0	4.9	5.9	4.9	6.9	8.9	8.9	8.9
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°	2031.0	2031.0	2031.0	2031.0	2031.0	2031.0	2031.0	2031.0	2031.0	2031.0	2031.0
2.5°	2028.1	2037.0	2025.1	2050.8	2050.8	2045.9	2021.1	2029.0	2035.0	2035.0	2039.9
5°	2066.6	2063.7	2071.6	2040.9	2022.1	2015.2	1974.7	1954.9	1938.1	1937.1	1922.3
7.5°	2088.4	2080.5	2077.5	2054.8	1971.7	1921.3	1834.2	1783.8	1772.9	1734.4	1749.2
10°	2123.0	2137.8	2123.0	1999.4	1883.7	1768.0	1683.0	1604.8	1574.2	1549.5	1534.6
12.5°	2194.2	2187.3	2101.2	1934.1	1772.0	1634.5	1507.9	1425.9	1395.2	1373.5	1371.5
15°	2254.5	2219.9	2088.4	1831.3	1597.9	1451.6	1347.8	1289.4	1275.6	1277.5	1286.4
17.5°	2275.3	2251.5	2021.1	1724.5	1468.4	1296.3	1247.9	1239.0	1251.8	1266.7	1270.6
20°	2307.9	2270.3	1993.4	1579.1	1308.2	1199.4	1196.5	1228.1	1251.8	1273.6	1276.6
22.5°	2376.1	2281.2	1903.5	1441.7	1198.4	1170.8	1199.4	1226.1	1262.7	1280.5	1264.7
25°	2395.9	2257.5	1776.9	1276.6	1129.2	1153.0	1183.6	1220.2	1245.9	1255.8	1262.7
27.5°	2412.7	2220.9	1605.8	1166.8	1107.5	1152.0	1183.6	1214.3	1228.1	1237.0	1244.9
30°	2460.2	2210.0	1457.5	1093.6	1093.6	1132.2	1172.7	1180.6	1199.4	1210.3	1224.1
32.5°	2483.9	2134.8	1305.2	1047.2	1079.8	1142.1	1145.0	1159.9	1160.9	1169.8	1154.9
35°	2546.2	2081.4	1163.8	1013.5	1085.7	1132.2	1147.0	1138.1	1089.7	1065.9	1070.9
37.5°	2591.7	2054.8	1062.0	1009.6	1086.7	1143.1	1151.0	1083.7	1033.3	993.8	1003.6
40°	2714.3	1988.5	984.9	1002.7	1095.6	1154.9	1133.2	1060.0	969.0	928.5	921.6
42.5°	2808.2	1941.0	936.4	994.7	1102.5	1171.7	1124.3	1012.5	919.6	882.0	891.9
45°	2917.0	1930.2	910.7	996.7	1114.4	1180.6	1113.4	976.0	877.1	862.2	859.3
47.5°	2955.6	1852.0	883.0	979.9	1111.4	1177.7	1076.8	948.3	861.3	863.2	871.1
50°	2891.3	1772.0	862.2	945.3	1091.6	1151.0	1019.5	911.7	852.4	877.1	890.9
52.5°	2809.2	1689.9	819.7	898.8	1051.1	1109.4	992.8	909.7	843.5	835.5	838.5
55°	2833.9	1622.6	760.4	835.5	985.8	1032.3	963.1	890.9	821.7	792.0	801.9
56°	2753.8	1553.4	721.8	796.0	941.3	982.9	948.3	874.1	803.9	784.1	784.1
57.5°	2527.4	1321.1	671.4	732.7	847.4	896.9	919.6	864.2	784.1	749.5	750.5
60°	1863.9	939.4	602.2	645.7	702.1	741.6	847.4	836.5	734.7	711.0	702.1
62.5°	1149.0	686.2	552.7	569.6	598.2	630.9	739.6	757.4	682.3	656.6	650.6
65°	643.7	525.1	515.2	522.1	535.9	552.7	614.1	653.6	602.2	562.6	560.7
67.5°	470.7	469.7	477.6	483.5	489.5	489.5	504.3	520.1	513.2	481.6	478.6
70°	418.3	421.2	427.2	428.2	430.1	423.2	411.3	406.4	414.3	394.5	390.6
72.5°	345.1	355.0	361.9	362.9	352.0	343.1	327.3	310.5	304.6	300.6	299.6
75°	265.0	271.9	274.9	273.9	269.9	257.1	238.3	221.5	210.6	198.8	204.7
77.5°	179.0	188.9	193.8	193.8	187.9	168.1	159.2	146.3	135.5	122.6	124.6
80°	125.6	132.5	140.4	139.4	129.5	119.6	106.8	94.9	86.0	76.1	75.1
82.5°	93.9	97.9	101.8	99.9	92.9	83.1	74.2	63.3	53.4	46.5	46.5
85°	33.6	36.6	44.5	46.5	50.4	50.4	42.5	35.6	28.7	23.7	23.7
87.5°	9.9	9.9	10.9	10.9	9.9	10.9	8.9	9.9	10.9	6.9	6.9
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)