

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: P527407

Luminaire Tested: **GALN-SA2B-830-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527407
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)
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-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5364 lumens
Efficiency: N/A
Efficacy: 65.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

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



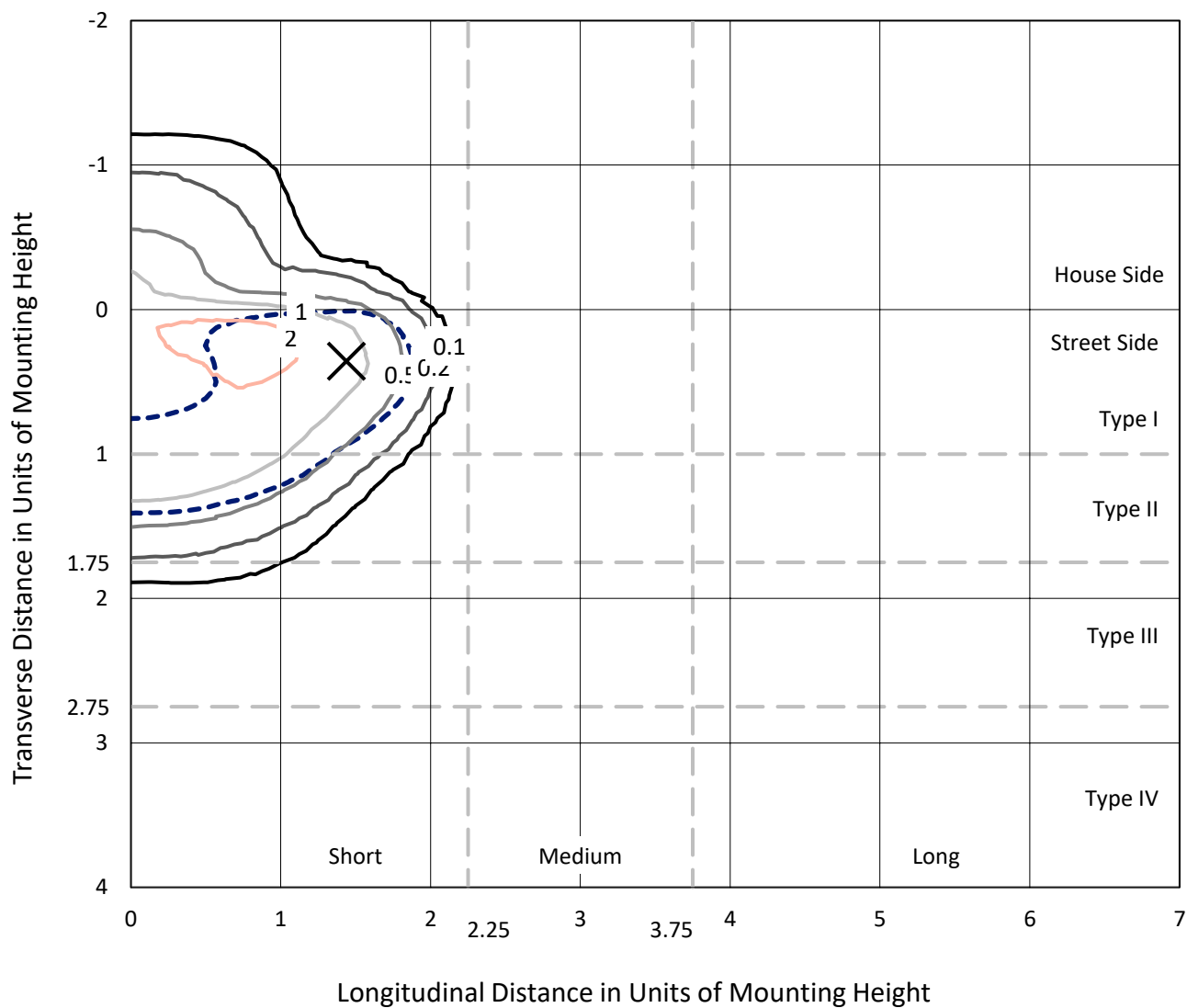
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

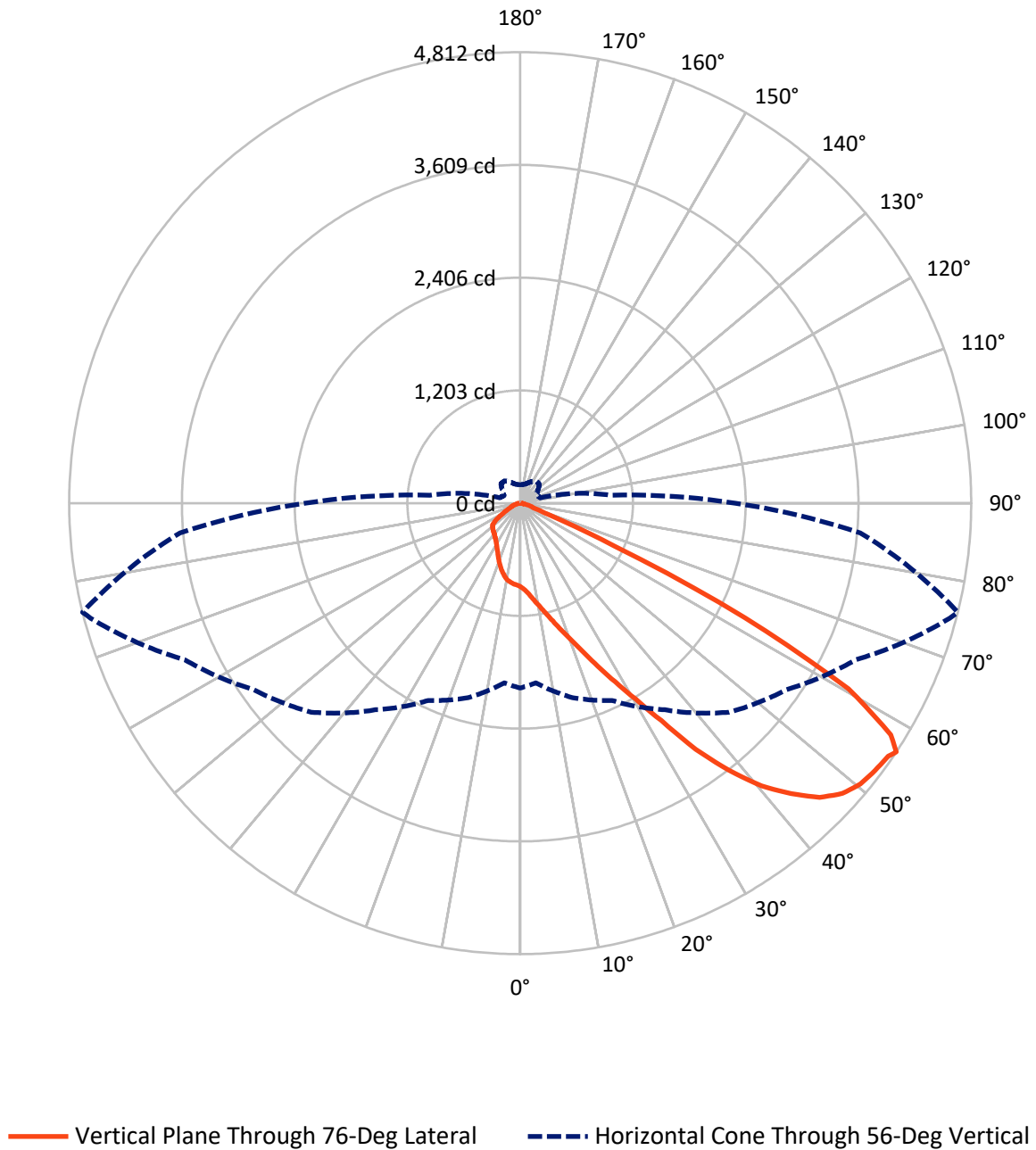
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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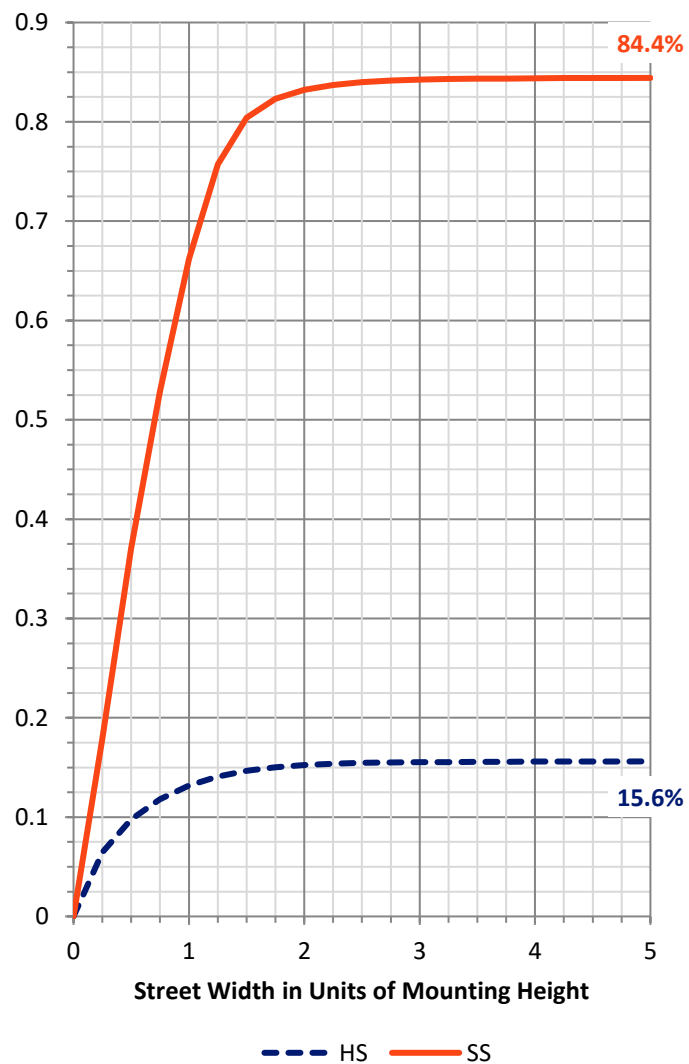
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	842.7	0.0	842.7
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	4521.3	0.0	4521.3
	% Fixture	84.3	0.0	84.3
Total	Lumens	5364.0	0.0	5364.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.9	1.7
10°-20°	288.9	5.4
20°-30°	523.9	9.8
30°-40°	903.6	16.8
40°-50°	1467.9	27.4
50°-60°	1547.2	28.8
60°-70°	472.7	8.8
70°-80°	60.6	1.1
80°-90°	9.2	0.2
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°	5364.0	100.0
0°-180°	5364.0	100.0

Coefficient of Utilization



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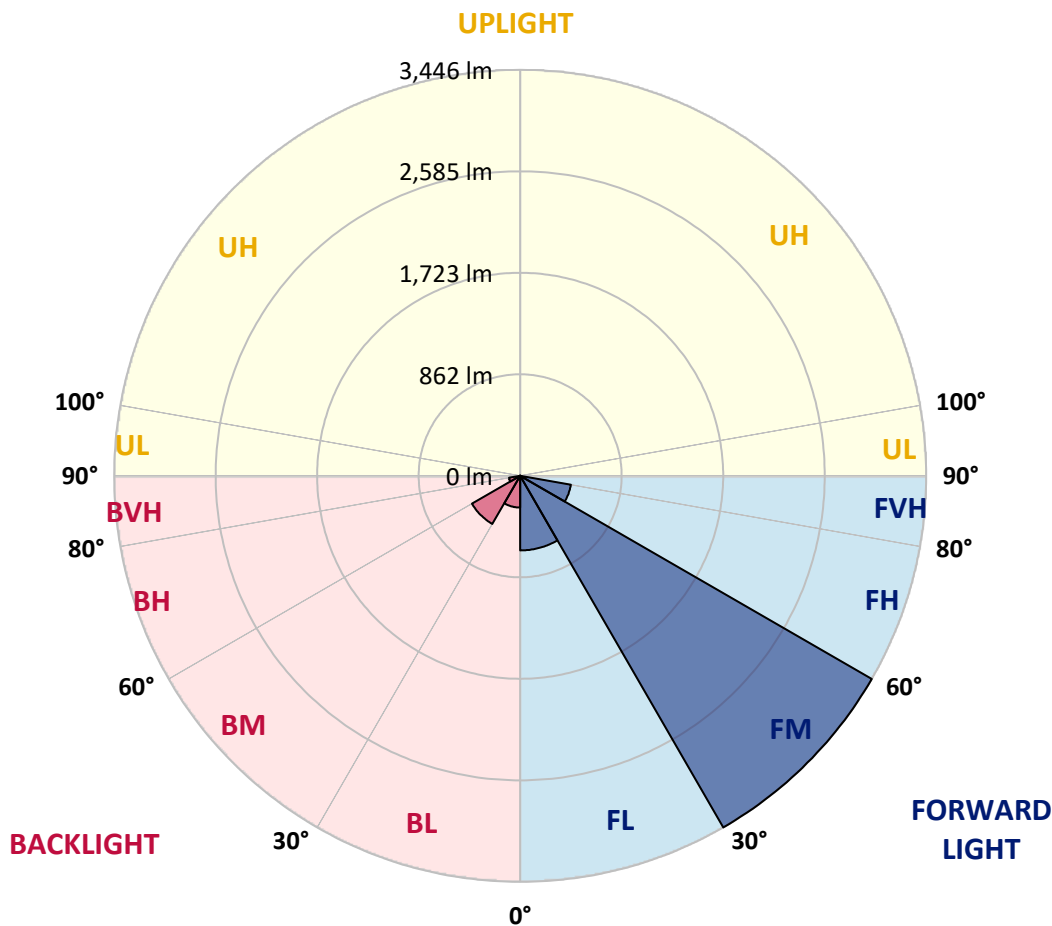
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	633.3	11.8			
FM	(30°-60°)	3446.4	64.2			
FH	(60°-80°)	437.2	8.2			G0/660
FVH	(80°-90°)	4.5	0.1			G0/10
BL	(0°-30°)	269.6	5.0	B1/500		
BM	(30°-60°)	472.3	8.8	B1/1000		
BH	(60°-80°)	96.1	1.8	B0/110		G0/110
BVH	(80°-90°)	4.7	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G0

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	892.8	892.8	892.8	892.8	892.8	892.8	892.8	892.8	892.8	892.8	892.8
2.5°	1028.3	1004.6	1005.6	1003.6	1000.6	989.7	957.1	952.2	930.4	924.5	904.7
5°	1151.9	1131.1	1143.0	1125.2	1108.4	1098.5	1045.1	1020.4	985.8	972.9	945.2
7.5°	1229.0	1219.1	1215.2	1216.2	1200.3	1175.6	1151.9	1097.5	1051.0	1041.2	982.8
10°	1266.6	1260.7	1266.6	1263.6	1270.6	1273.5	1232.0	1199.4	1131.1	1114.3	1023.4
12.5°	1275.5	1287.4	1292.3	1305.2	1322.0	1350.6	1347.7	1303.2	1212.2	1201.3	1085.7
15°	1297.2	1307.1	1302.2	1323.0	1354.6	1403.0	1428.8	1421.8	1323.9	1304.2	1157.8
17.5°	1317.0	1299.2	1316.0	1357.6	1389.2	1463.4	1525.6	1554.3	1445.6	1422.8	1224.1
20°	1343.7	1338.8	1335.8	1356.6	1412.9	1511.8	1635.4	1687.8	1582.0	1558.3	1319.0
22.5°	1424.8	1425.8	1423.8	1393.2	1433.7	1545.4	1731.3	1860.8	1745.2	1725.4	1426.8
25°	1531.6	1518.7	1508.8	1484.1	1479.2	1576.1	1828.2	2072.4	1940.9	1927.1	1543.4
27.5°	1644.3	1644.3	1614.6	1591.9	1560.3	1652.2	1917.2	2278.1	2177.2	2158.5	1645.3
30°	1766.9	1773.8	1769.9	1721.4	1701.6	1735.3	2008.2	2541.1	2448.2	2424.4	1813.4
32.5°	1947.8	1933.0	1949.8	1909.3	1850.9	1880.6	2151.5	2776.4	2800.2	2766.5	2033.9
35°	2187.1	2178.2	2167.4	2101.1	2031.9	2055.6	2354.2	3066.1	3242.1	3225.3	2256.3
37.5°	2401.7	2396.7	2387.8	2342.4	2262.3	2290.9	2584.6	3367.7	3673.2	3617.9	2570.8
40°	2627.1	2653.8	2625.1	2584.6	2511.4	2574.7	2855.5	3546.7	4036.1	3968.9	2811.0
42.5°	2932.6	2911.9	2924.7	2850.6	2811.0	2880.2	3127.4	3725.6	4317.9	4237.8	3066.1
45°	3257.9	3258.9	3224.3	3200.6	3097.8	3172.9	3294.5	3824.5	4542.3	4480.0	3258.9
47.5°	3466.6	3465.6	3503.2	3540.7	3434.9	3360.8	3408.2	3918.4	4658.0	4629.4	3329.1
50°	3433.9	3443.8	3492.3	3632.7	3688.1	3588.2	3515.0	3890.8	4710.4	4707.5	3389.5
52.5°	2987.0	3019.7	3100.7	3303.4	3582.3	3705.9	3626.8	3942.2	4736.1	4741.1	3479.4
55°	2274.1	2291.9	2446.2	2692.4	3000.9	3424.1	3582.3	3982.7	4755.9	4764.8	3588.2
56°	1972.6	1925.1	2147.6	2322.6	2691.4	3154.1	3469.5	3951.1	4744.0	4812.3	3642.6
57.5°	1489.1	1457.4	1637.4	1855.9	2210.9	2699.3	3119.5	3801.8	4664.0	4663.0	3564.5
60°	905.7	874.1	1012.5	1141.0	1339.8	1662.1	2108.0	3027.6	3943.2	4026.2	2886.2
62.5°	538.9	558.6	695.1	773.2	837.5	871.1	1090.6	1799.5	2631.1	2690.4	1790.6
65°	358.9	365.8	468.7	597.2	625.9	498.3	444.0	728.7	1141.0	1104.4	738.6
67.5°	221.5	237.3	314.4	448.9	497.3	363.9	210.6	271.9	314.4	314.4	213.6
70°	134.5	142.4	209.6	305.5	341.1	234.3	153.3	153.3	151.3	148.3	127.5
72.5°	64.3	69.2	106.8	157.2	160.2	123.6	118.7	129.5	126.6	125.6	105.8
75°	27.7	29.7	37.6	49.4	56.4	52.4	72.2	92.9	95.9	92.9	76.1
77.5°	8.9	9.9	13.8	17.8	18.8	22.7	30.7	38.6	44.5	41.5	37.6
80°	1.0	2.0	4.0	8.9	13.8	17.8	22.7	25.7	28.7	28.7	26.7
82.5°	1.0	1.0	4.0	7.9	12.9	16.8	21.8	24.7	28.7	29.7	27.7
85°	0.0	1.0	3.0	6.9	10.9	10.9	9.9	9.9	6.9	6.9	6.9
87.5°	0.0	0.0	1.0	1.0	1.0	2.0	2.0	2.0	2.0	2.0	2.0
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°	892.8	892.8	892.8	892.8	892.8	892.8	892.8	892.8	892.8	892.8	892.8
2.5°	900.8	898.8	872.1	855.3	846.4	828.6	817.7	809.8	803.9	796.9	797.9
5°	912.6	905.7	861.2	830.6	794.0	774.2	757.4	743.5	734.6	732.7	728.7
7.5°	946.2	909.7	842.4	787.0	740.6	720.8	706.0	697.1	701.0	692.1	699.0
10°	971.9	917.6	819.7	739.6	693.1	678.3	670.4	677.3	687.2	683.2	678.3
12.5°	1003.6	925.5	783.1	694.1	650.6	639.7	653.6	666.4	686.2	694.1	684.2
15°	1039.2	934.4	736.6	641.7	614.0	622.9	646.6	669.4	689.2	699.0	705.0
17.5°	1082.7	931.4	691.1	600.2	579.4	605.1	633.8	654.6	684.2	699.0	695.1
20°	1123.2	921.5	640.7	558.6	559.6	583.4	607.1	640.7	656.5	676.3	669.4
22.5°	1161.8	903.7	588.3	530.0	530.0	566.6	578.4	600.2	614.0	623.9	622.9
25°	1216.2	870.1	544.8	502.3	514.2	537.9	547.8	554.7	548.8	556.7	557.7
27.5°	1254.7	835.5	509.2	477.6	499.3	517.1	514.2	510.2	496.4	485.5	492.4
30°	1296.3	795.0	478.6	460.8	472.6	488.4	476.6	464.7	443.0	425.2	426.2
32.5°	1355.6	776.2	451.9	441.0	456.8	458.8	445.9	428.1	406.4	389.6	388.6
35°	1466.3	764.3	429.1	428.1	431.1	432.1	419.2	397.5	388.6	374.7	379.7
37.5°	1577.1	758.4	413.3	409.3	408.4	409.3	394.5	373.7	390.6	389.6	391.5
40°	1718.5	785.1	390.6	385.6	386.6	386.6	367.8	361.9	391.5	394.5	395.5
42.5°	1861.8	818.7	375.7	359.9	363.9	363.9	354.0	347.1	367.8	348.0	345.1
45°	1986.4	868.1	359.9	334.2	344.1	349.0	346.1	334.2	321.3	287.7	287.7
47.5°	2026.9	911.6	341.1	309.5	317.4	339.1	330.2	305.5	282.8	255.1	253.1
50°	2098.1	959.1	326.3	280.8	297.6	324.3	315.4	290.7	265.0	245.2	246.2
52.5°	2171.3	1013.5	298.6	247.2	268.0	312.4	312.4	284.8	245.2	231.4	229.4
55°	2281.1	1011.5	249.2	202.7	239.3	294.6	299.6	255.1	219.5	208.6	208.6
56°	2296.9	966.0	224.4	189.8	226.4	289.7	290.7	247.2	209.6	197.8	197.8
57.5°	2178.2	872.1	196.8	174.0	210.6	280.8	281.8	240.3	201.7	184.9	182.9
60°	1675.9	590.3	164.1	155.2	190.8	253.1	258.1	218.5	177.0	164.1	163.1
62.5°	946.2	327.3	144.4	140.4	164.1	215.5	230.4	190.8	150.3	143.4	145.3
65°	432.1	180.0	121.6	113.7	132.5	166.1	185.9	157.2	123.6	115.7	115.7
67.5°	158.2	122.6	103.8	90.0	92.9	107.8	120.6	101.8	82.1	70.2	73.2
70°	112.7	102.8	91.0	78.1	72.2	70.2	69.2	57.3	40.5	31.6	33.6
72.5°	91.0	85.0	76.1	66.2	56.4	47.5	40.5	29.7	18.8	12.9	11.9
75°	65.3	62.3	55.4	47.5	39.6	33.6	27.7	18.8	9.9	4.9	4.9
77.5°	33.6	33.6	32.6	29.7	24.7	19.8	15.8	10.9	5.9	2.0	2.0
80°	25.7	27.7	28.7	25.7	22.7	17.8	12.9	7.9	4.0	1.0	1.0
82.5°	24.7	28.7	30.7	26.7	22.7	16.8	12.9	7.9	4.0	1.0	1.0
85°	5.9	5.9	8.9	9.9	12.9	13.8	10.9	6.9	3.0	1.0	1.0
87.5°	2.0	2.0	2.0	2.0	2.0	2.0	1.0	1.0	1.0	1.0	0.0
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)