

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: P534628

Luminaire Tested: **GALN-SA9A-AMB-U-SL2**

Issue Date: 6/10/2021

Test Information

Test Method: LM-79-08
Report Number: P534628
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-067-4)
Test Lab: INNOVATION CENTER
Issue Date: 6/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9A-AMB-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) NARROW BAND AMBER, 500mA LIGHTSQUARE WITH 16 LEDS AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8430 lumens
Efficiency: N/A
Efficacy: 47.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

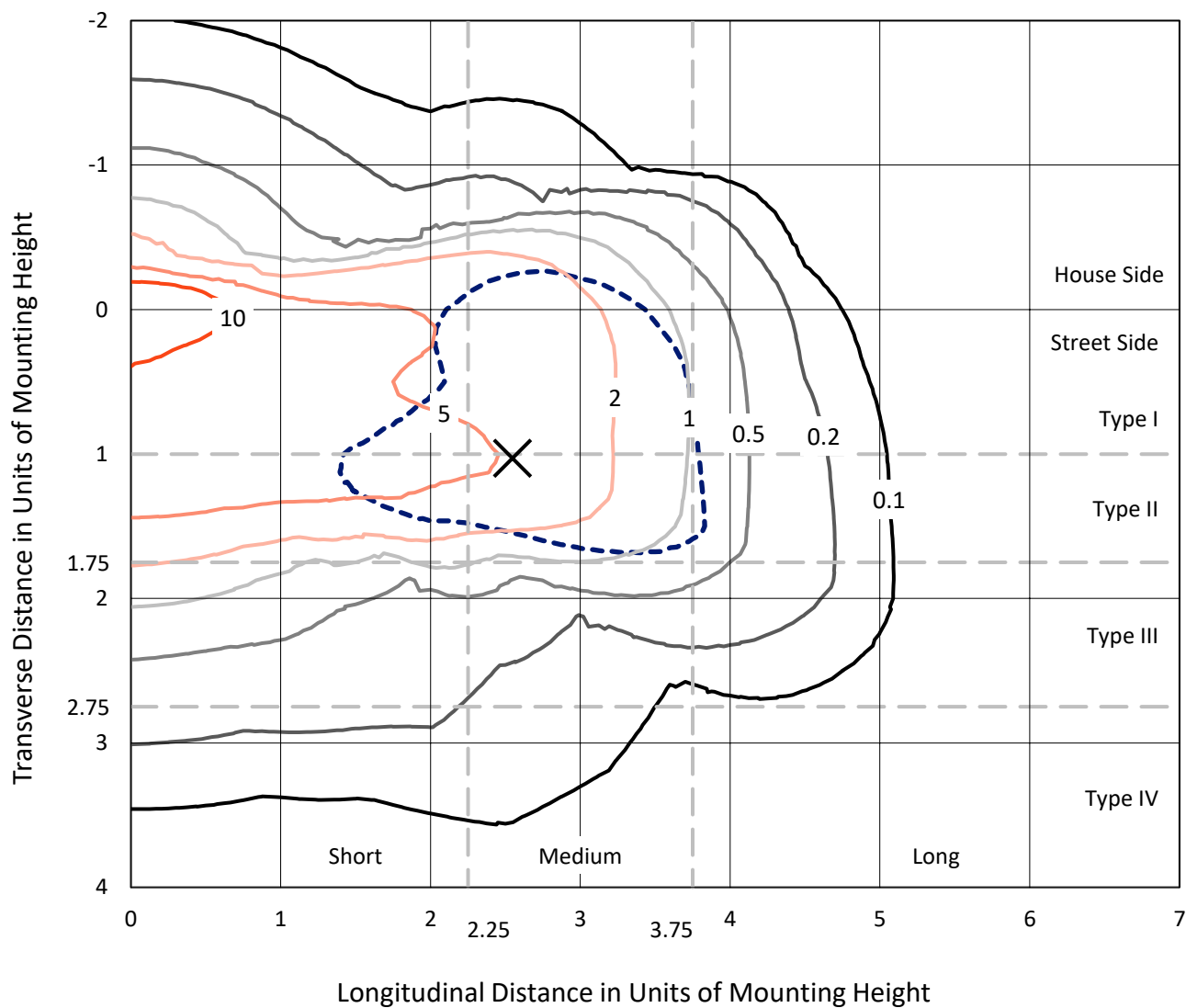
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

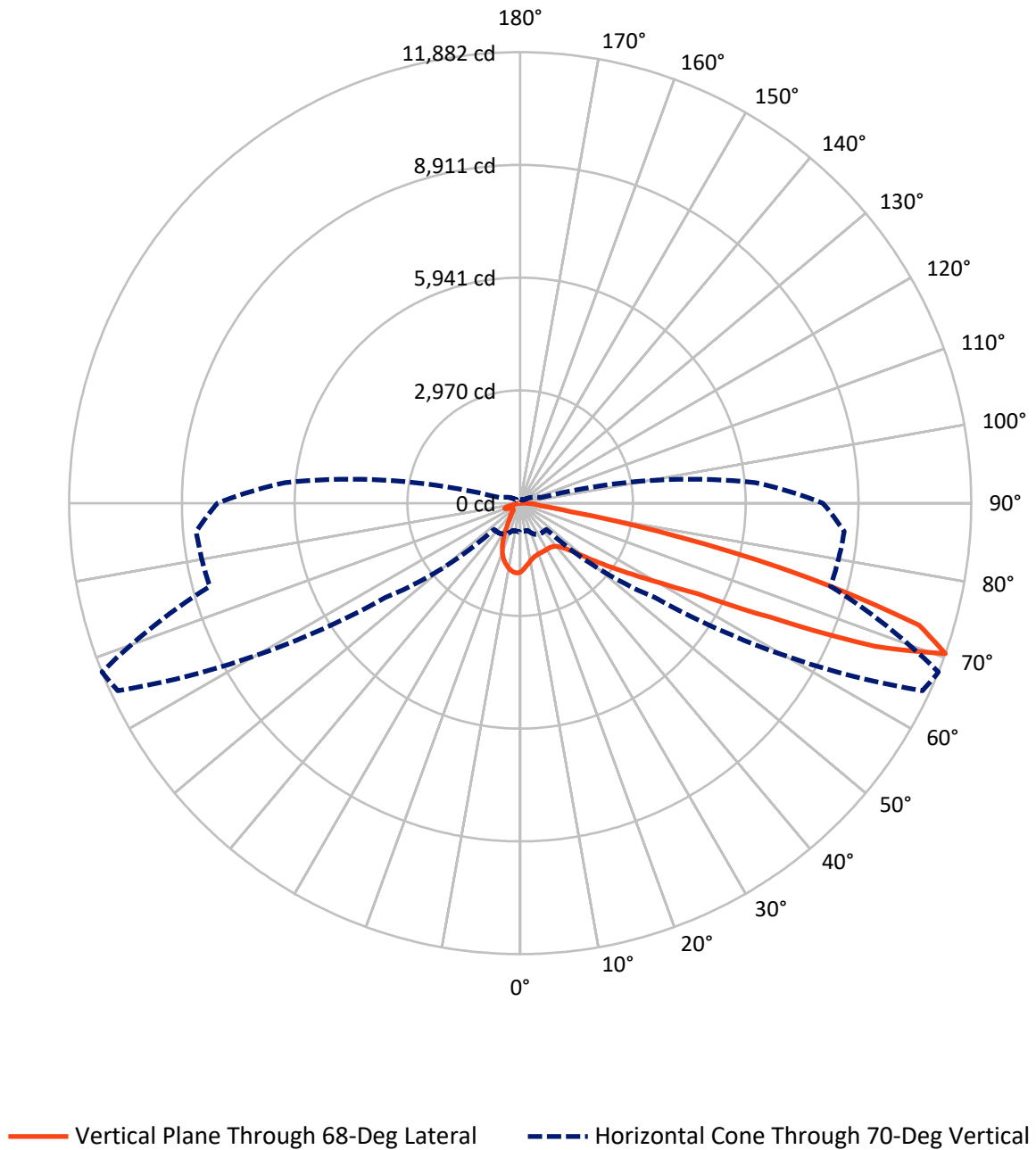


Based on 10 foot mounting height. Maximum calculated value = 18.1 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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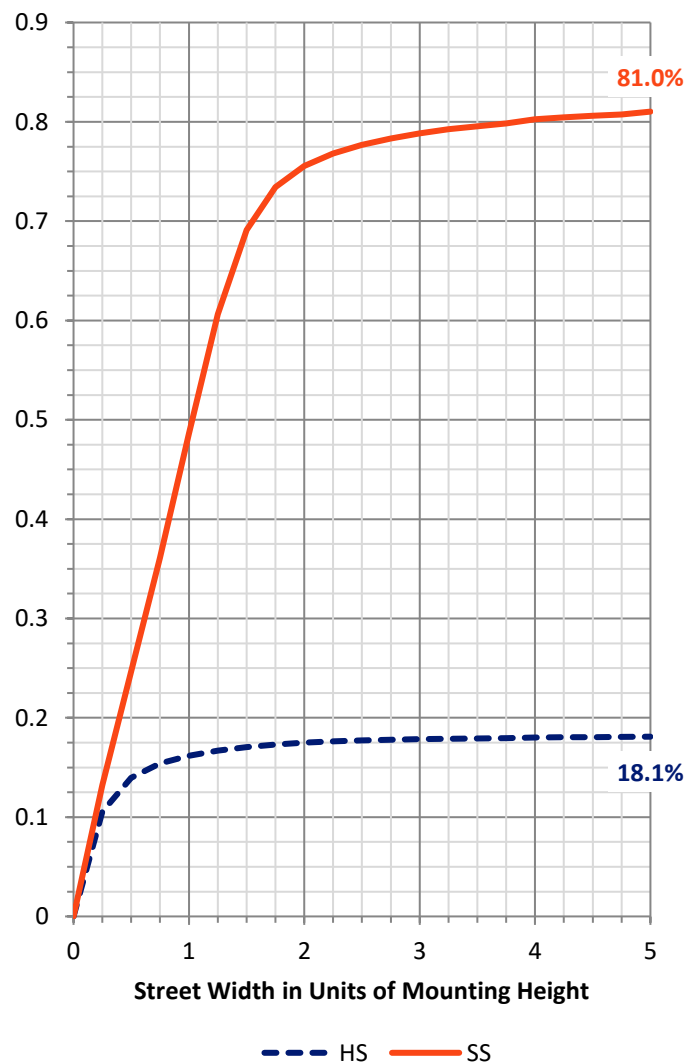
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1541.8	0.0	1541.8
	% Fixture	18.3	0.0	18.3
Street Side	Lumens	6888.1	0.0	6888.1
	% Fixture	81.7	0.0	81.7
Total	Lumens	8430.0	0.0	8430.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.4	1.8
10°-20°	354.1	4.2
20°-30°	476.9	5.7
30°-40°	655.6	7.8
40°-50°	996.7	11.8
50°-60°	1657.0	19.7
60°-70°	2329.4	27.6
70°-80°	1611.8	19.1
80°-90°	194.0	2.3
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°	8430.0	100.0
0°-180°	8430.0	100.0

Coefficient of Utilization



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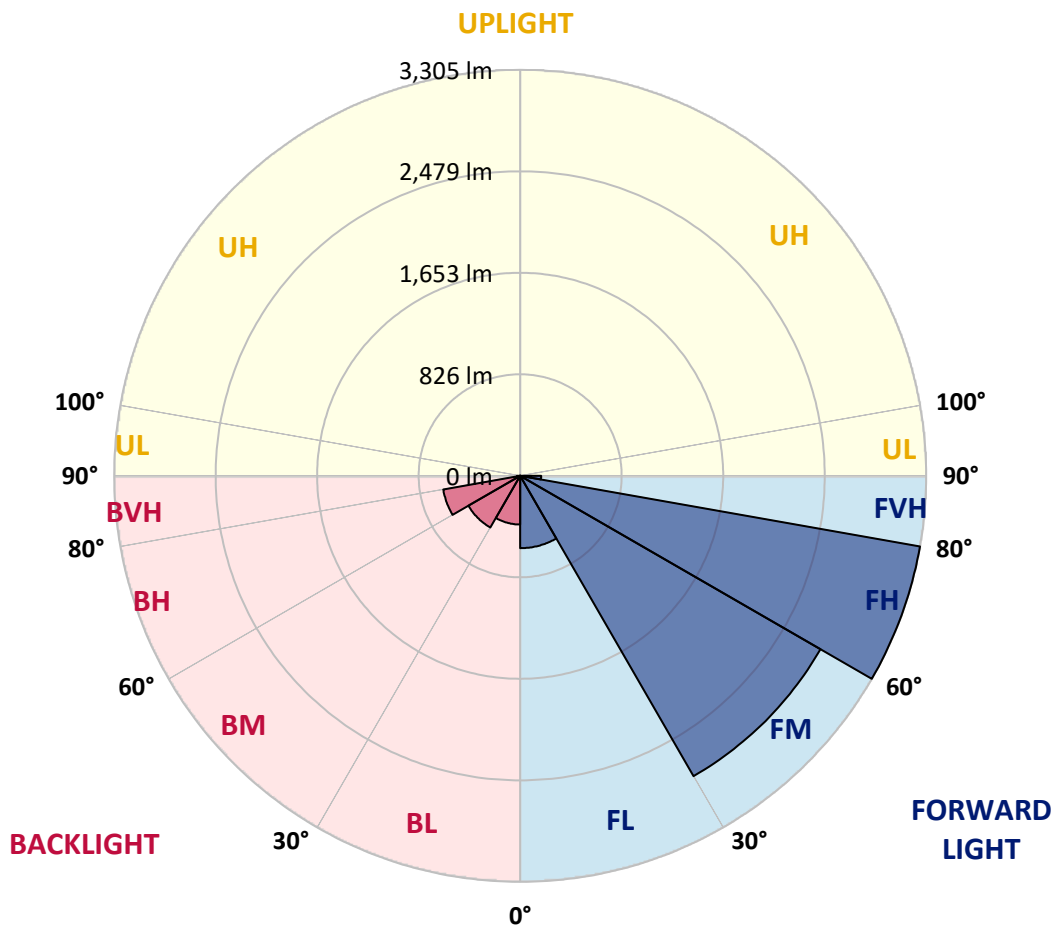
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	589.0	7.0			
FM	(30°-60°)	2823.3	33.5			
FH	(60°-80°)	3305.2	39.2			G2/5000
FVH	(80°-90°)	170.6	2.0			G2/225
BL	(0°-30°)	396.4	4.7	B1/500		
BM	(30°-60°)	486.0	5.8	B1/1000		
BH	(60°-80°)	636.0	7.5	B2/1000		G2/1000
BVH	(80°-90°)	23.4	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-G2

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
0°	1813.2	1813.2	1813.2	1813.2	1813.2	1813.2	1813.2	1813.2	1813.2	1813.2	1813.2
2.5°	1646.6	1642.9	1650.3	1650.3	1661.4	1683.6	1698.4	1724.3	1742.8	1761.3	1783.6
5°	1517.1	1513.4	1528.2	1531.9	1561.5	1594.8	1617.0	1654.0	1661.4	1698.4	1750.2
7.5°	1413.5	1413.5	1417.2	1435.7	1457.9	1483.8	1524.5	1572.6	1602.2	1646.6	1739.1
10°	1332.1	1328.4	1339.5	1346.9	1380.2	1409.8	1454.2	1509.7	1535.6	1587.4	1716.9
12.5°	1265.5	1261.8	1269.2	1284.0	1313.6	1339.5	1387.6	1469.0	1487.5	1550.4	1713.2
15°	1221.1	1217.4	1221.1	1235.9	1261.8	1298.8	1350.6	1417.2	1450.5	1535.6	1724.3
17.5°	1206.3	1202.6	1198.9	1202.6	1228.5	1254.4	1321.0	1398.7	1432.0	1531.9	1746.5
20°	1217.4	1210.0	1202.6	1202.6	1206.3	1239.6	1306.2	1380.2	1420.9	1517.1	1776.2
22.5°	1250.7	1247.0	1232.2	1213.7	1206.3	1232.2	1295.1	1380.2	1413.5	1520.8	1794.7
25°	1309.9	1302.5	1287.7	1261.8	1235.9	1239.6	1298.8	1376.5	1409.8	1520.8	1820.6
27.5°	1380.2	1369.1	1358.0	1332.1	1280.3	1258.1	1295.1	1387.6	1406.1	1509.7	1839.1
30°	1487.5	1483.8	1461.6	1428.3	1358.0	1291.4	1317.3	1380.2	1406.1	1498.6	1850.2
32.5°	1617.0	1613.3	1598.5	1561.5	1461.6	1358.0	1343.2	1387.6	1406.1	1494.9	1861.3
35°	1746.5	1742.8	1753.9	1724.3	1613.3	1450.5	1391.3	1409.8	1417.2	1502.3	1861.3
37.5°	1865.0	1861.3	1872.4	1905.7	1794.7	1583.7	1465.3	1443.1	1443.1	1513.4	1879.8
40°	1990.8	1994.5	2042.6	2075.9	2024.1	1746.5	1561.5	1506.0	1498.6	1568.9	1913.1
42.5°	2135.1	2120.3	2205.4	2283.1	2231.3	1964.9	1713.2	1602.2	1580.0	1642.9	1987.1
45°	2235.0	2272.0	2349.7	2501.4	2497.7	2223.9	1931.6	1765.1	1724.3	1765.1	2124.0
47.5°	2442.2	2438.5	2542.1	2738.2	2786.3	2538.4	2183.2	1987.1	1931.6	1953.8	2305.3
50°	2701.2	2690.1	2812.2	3026.9	3174.9	2889.9	2523.6	2294.2	2231.3	2231.3	2582.8
52.5°	2860.3	2871.4	2967.7	3256.3	3622.6	3411.7	2901.0	2664.2	2601.3	2605.0	2945.5
55°	2767.8	2778.9	2889.9	3230.4	3852.0	4244.3	3389.5	3152.7	3041.7	2997.3	3445.0
57.5°	2379.3	2357.1	2445.9	2845.5	3748.4	4880.7	4384.9	3718.8	3593.0	3519.0	4014.8
60°	1768.8	1753.9	1761.3	2013.0	3104.6	5069.4	5979.7	4503.3	4277.6	4111.1	4710.5
62.5°	1343.2	1343.2	1328.4	1339.5	1850.2	4717.9	7256.3	5987.1	5250.7	4780.8	5421.0
65°	1099.0	1084.2	1106.4	1095.3	1113.8	3104.6	7855.8	8466.3	7248.9	5694.8	6427.4
67.5°	895.5	880.7	895.5	1017.6	973.2	1365.4	7015.8	10912.2	10072.3	6841.9	7507.9
70°	762.3	743.8	743.8	906.6	965.8	976.9	4333.1	11693.0	11881.7	8462.6	8566.2
72.5°	569.8	573.5	580.9	780.8	965.8	939.9	1809.5	10264.7	10986.2	8984.4	8207.3
75°	377.4	381.1	403.3	573.5	999.1	954.7	995.4	6904.8	7841.0	6886.3	5702.2
77.5°	251.6	251.6	273.8	373.7	873.3	984.3	928.8	3630.0	4303.5	3252.6	1865.0
80°	170.2	170.2	177.6	251.6	606.9	1039.8	917.7	1409.8	1328.4	688.3	377.4
82.5°	99.9	99.9	118.4	170.2	358.9	1021.3	910.3	740.1	551.3	255.3	199.8
85°	48.1	48.1	70.3	103.6	199.8	766.0	865.9	625.4	414.4	170.2	118.4
87.5°	14.8	14.8	29.6	51.8	92.5	395.9	588.4	429.2	207.2	66.6	40.7
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°	1813.2	1813.2	1813.2	1813.2	1813.2	1813.2	1813.2	1813.2	1813.2	1813.2	1813.2
2.5°	1802.1	1813.2	1824.3	1850.2	1850.2	1850.2	1835.4	1839.1	1831.7	1839.1	1842.8
5°	1791.0	1813.2	1846.5	1828.0	1816.9	1787.3	1746.5	1709.5	1691.0	1691.0	1672.5
7.5°	1779.9	1809.5	1824.3	1791.0	1728.0	1650.3	1591.1	1524.5	1487.5	1472.7	1472.7
10°	1776.2	1824.3	1816.9	1724.3	1617.0	1498.6	1380.2	1276.6	1191.5	1161.9	1150.8
12.5°	1791.0	1842.8	1779.9	1631.8	1483.8	1306.2	1136.0	969.5	858.5	810.4	806.7
15°	1828.0	1861.3	1739.1	1546.7	1321.0	1087.9	873.3	673.5	588.4	558.7	555.0
17.5°	1850.2	1868.7	1691.0	1435.7	1143.4	836.3	588.4	484.7	469.9	469.9	473.6
20°	1872.4	1861.3	1613.3	1309.9	936.2	569.8	403.3	377.4	388.5	410.7	414.4
22.5°	1894.6	1816.9	1528.2	1139.7	662.4	366.3	318.2	314.5	336.7	370.0	373.7
25°	1883.5	1768.8	1413.5	947.3	410.7	292.3	273.8	281.2	296.0	318.2	321.9
27.5°	1861.3	1724.3	1321.0	736.4	288.6	259.0	255.3	259.0	266.4	277.5	284.9
30°	1839.1	1683.6	1210.0	495.8	259.0	247.9	244.2	244.2	244.2	251.6	255.3
32.5°	1813.2	1624.4	1091.6	325.6	244.2	236.8	233.1	229.4	229.4	229.4	229.4
35°	1787.3	1580.0	973.2	262.7	233.1	225.7	222.0	214.6	214.6	210.9	214.6
37.5°	1765.1	1531.9	817.8	244.2	222.0	218.3	210.9	203.5	199.8	203.5	199.8
40°	1772.5	1517.1	658.7	233.1	218.3	210.9	199.8	196.1	192.4	196.1	196.1
42.5°	1802.1	1494.9	506.9	225.7	210.9	199.8	192.4	185.0	185.0	188.7	188.7
45°	1868.7	1502.3	384.8	218.3	203.5	196.1	185.0	181.3	181.3	181.3	181.3
47.5°	2001.9	1561.5	321.9	214.6	199.8	188.7	181.3	173.9	173.9	173.9	170.2
50°	2201.7	1657.7	299.7	214.6	196.1	188.7	177.6	166.5	162.8	162.8	162.8
52.5°	2482.9	1835.4	299.7	210.9	192.4	181.3	170.2	159.1	155.4	151.7	151.7
55°	2897.3	2068.5	307.1	210.9	185.0	177.6	162.8	151.7	144.3	144.3	144.3
57.5°	3470.9	2486.6	303.4	207.2	181.3	166.5	151.7	144.3	136.9	133.2	133.2
60°	4166.6	3034.3	299.7	203.5	177.6	155.4	140.6	133.2	125.8	125.8	125.8
62.5°	4976.9	3829.8	318.2	210.9	173.9	144.3	133.2	125.8	118.4	118.4	118.4
65°	6042.6	4806.7	477.3	225.7	170.2	136.9	122.1	114.7	111.0	111.0	111.0
67.5°	7245.2	6072.2	562.4	277.5	173.9	125.8	111.0	107.3	103.6	99.9	103.6
70°	7974.2	6220.2	562.4	366.3	199.8	114.7	99.9	96.2	96.2	92.5	92.5
72.5°	7104.6	5136.0	532.8	384.8	218.3	107.3	92.5	88.8	85.1	81.4	81.4
75°	4618.0	2901.0	458.8	314.5	185.0	96.2	81.4	77.7	74.0	74.0	74.0
77.5°	1395.0	854.8	303.4	222.0	122.1	81.4	70.3	66.6	62.9	62.9	59.2
80°	347.8	281.2	144.3	122.1	77.7	62.9	55.5	51.8	48.1	48.1	48.1
82.5°	188.7	173.9	88.8	70.3	55.5	44.4	44.4	40.7	37.0	33.3	33.3
85°	114.7	103.6	62.9	44.4	33.3	25.9	25.9	25.9	22.2	22.2	18.5
87.5°	40.7	44.4	29.6	14.8	11.1	11.1	7.4	7.4	7.4	3.7	3.7
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)