

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: P534630

Luminaire Tested: **GALN-SA9A-AMB-U-SL3**

Issue Date: 6/10/2021

Test Information

Test Method: LM-79-08
Report Number: P534630
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-067-6)
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-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) NARROW BAND AMBER, 500mA LIGHTSQUARE WITH 16 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8345 lumens
Efficiency: N/A
Efficacy: 47.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - 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

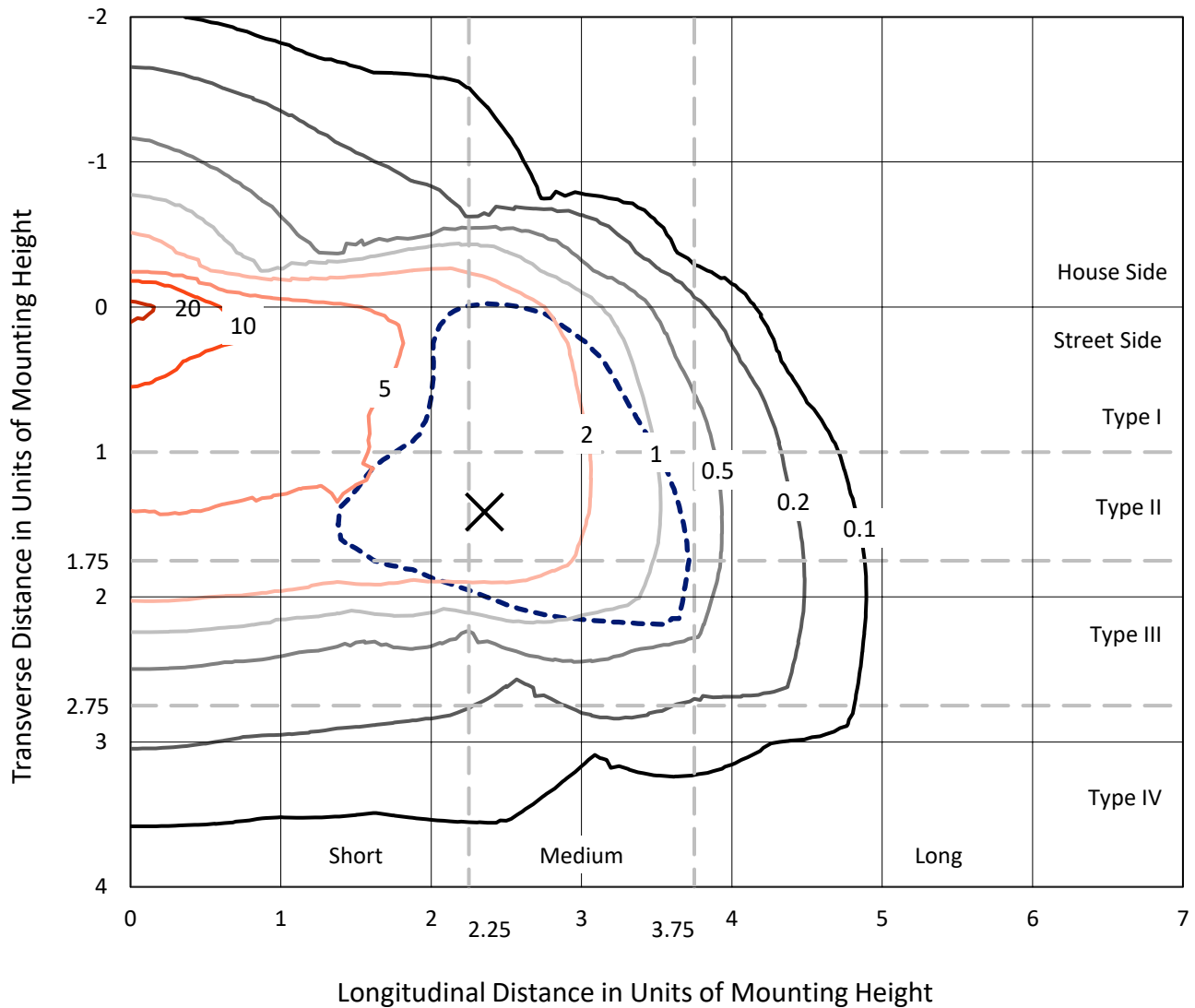


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

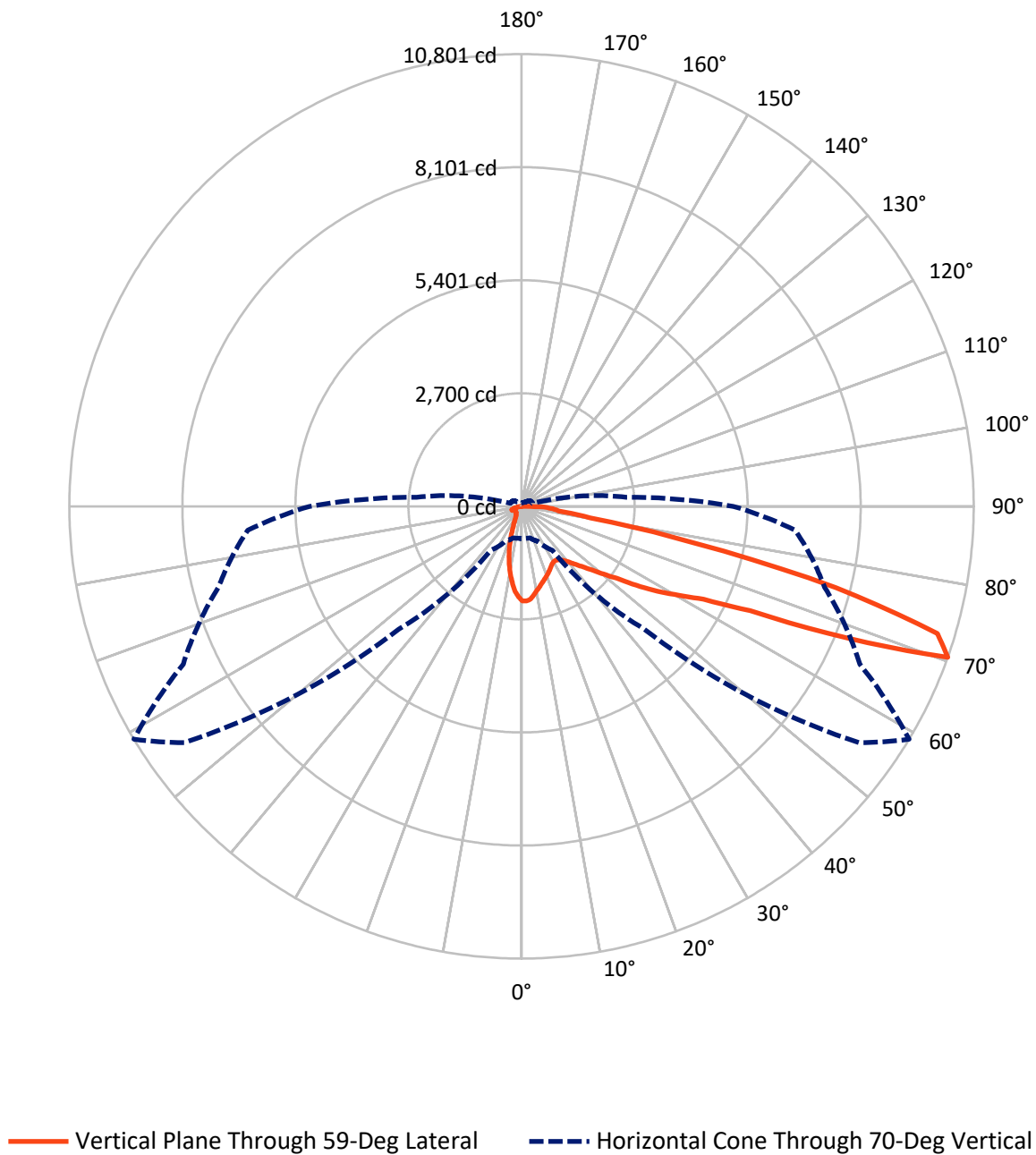


Based on 10 foot mounting height. Maximum calculated value = 22.6 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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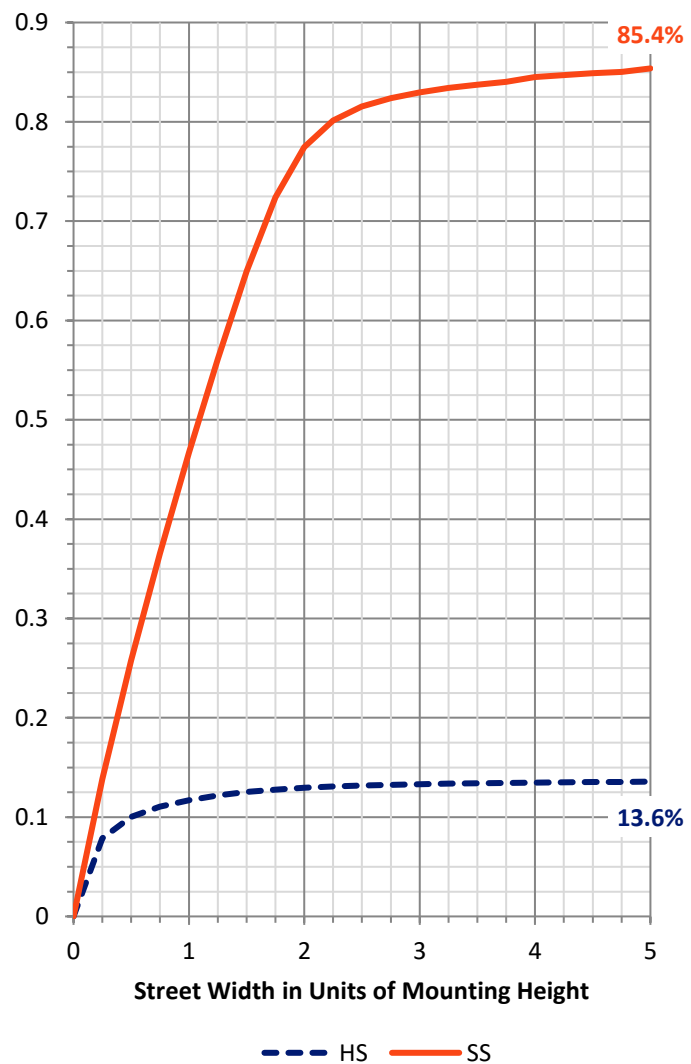
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1143.6	0.0	1143.6
	% Fixture	13.7	0.0	13.7
Street Side	Lumens	7201.4	0.0	7201.4
	% Fixture	86.3	0.0	86.3
Total	Lumens	8345.0	0.0	8345.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.4	2.2
10°-20°	387.8	4.6
20°-30°	489.9	5.9
30°-40°	641.2	7.7
40°-50°	952.5	11.4
50°-60°	1560.5	18.7
60°-70°	2427.8	29.1
70°-80°	1503.8	18.0
80°-90°	196.1	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°	8345.0	100.0
0°-180°	8345.0	100.0

Coefficient of Utilization



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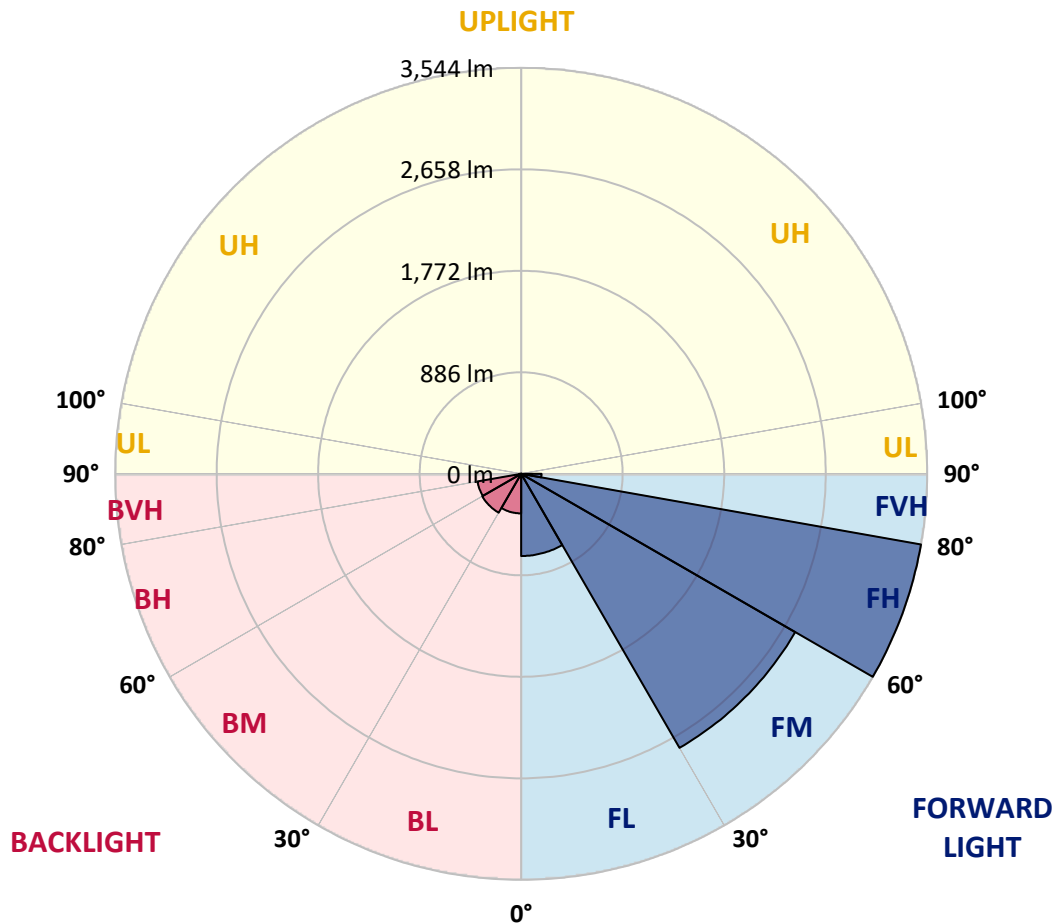
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	717.5	8.6			
FM	(30°-60°)	2762.1	33.1			
FH	(60°-80°)	3544.4	42.5			G2/5000
FVH	(80°-90°)	177.2	2.1			G2/225
BL	(0°-30°)	345.6	4.1	B1/500		
BM	(30°-60°)	392.0	4.7	B1/1000		
BH	(60°-80°)	387.2	4.6	B1/500		G1/500
BVH	(80°-90°)	18.8	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	2260.9	2260.9	2260.9	2260.9	2260.9	2260.9	2260.9	2260.9	2260.9	2260.9	2260.9
2.5°	2268.3	2268.3	2268.3	2249.8	2283.1	2272.0	2275.7	2264.6	2272.0	2260.9	2249.8
5°	2157.2	2157.2	2149.8	2153.5	2183.1	2205.4	2220.2	2227.6	2212.8	2220.2	2197.9
7.5°	1972.2	1987.0	1990.7	2009.2	2046.2	2086.9	2112.8	2131.3	2138.7	2142.4	2116.5
10°	1798.3	1802.0	1827.9	1850.1	1913.0	1961.1	2020.3	2035.1	2057.3	2086.9	2061.0
12.5°	1672.5	1691.0	1698.4	1728.0	1794.6	1850.1	1920.4	1957.4	1990.7	2046.2	2035.1
15°	1557.8	1554.1	1568.9	1617.0	1687.3	1768.7	1850.1	1879.7	1931.5	2005.5	1990.7
17.5°	1469.0	1469.0	1487.5	1528.2	1583.7	1668.8	1779.8	1813.1	1883.4	1979.6	1950.0
20°	1424.6	1428.3	1435.7	1446.8	1491.2	1591.1	1694.7	1750.2	1827.9	1957.4	1920.4
22.5°	1417.2	1413.5	1409.8	1413.5	1439.4	1494.9	1613.3	1683.6	1787.2	1946.3	1883.4
25°	1428.3	1424.6	1420.9	1417.2	1417.2	1454.2	1557.8	1617.0	1739.1	1942.6	1846.4
27.5°	1457.9	1465.3	1446.8	1428.3	1409.8	1424.6	1494.9	1557.8	1691.0	1957.4	1827.9
30°	1509.7	1513.4	1506.0	1480.1	1443.1	1424.6	1469.0	1524.5	1650.3	1972.2	1813.1
32.5°	1568.9	1568.9	1568.9	1546.7	1502.3	1450.5	1472.7	1524.5	1646.6	2009.2	1802.0
35°	1631.8	1646.6	1646.6	1624.4	1587.4	1502.3	1517.1	1565.2	1676.2	2057.3	1831.6
37.5°	1720.6	1724.3	1720.6	1724.3	1683.6	1594.8	1598.5	1639.2	1728.0	2127.6	1876.0
40°	1805.7	1794.6	1820.5	1842.7	1816.8	1716.9	1705.8	1750.2	1820.5	2242.4	1957.4
42.5°	1883.4	1887.1	1905.6	1946.3	1968.5	1876.0	1857.5	1890.8	1938.9	2379.3	2094.3
45°	1957.4	1968.5	2038.8	2083.2	2127.6	2035.1	2024.0	2061.0	2112.8	2542.1	2297.9
47.5°	2024.0	2031.4	2120.2	2227.6	2305.3	2264.6	2249.8	2275.7	2301.6	2778.9	2553.2
50°	2086.9	2112.8	2227.6	2364.5	2497.7	2542.1	2512.5	2542.1	2538.4	3019.4	2834.4
52.5°	2260.9	2286.8	2412.6	2549.5	2704.9	2827.0	2875.1	2856.6	2830.7	3285.8	3156.3
55°	2638.3	2627.2	2693.8	2778.9	2956.5	3115.6	3352.4	3322.8	3208.1	3563.3	3474.5
57.5°	3008.3	3067.5	3067.5	3045.3	3222.9	3496.7	3811.3	3818.7	3600.3	3863.1	3852.0
60°	3156.3	3222.9	3374.6	3574.4	3785.4	3933.4	4303.4	4303.4	4000.0	4203.5	4240.5
62.5°	2815.9	2912.1	3148.9	3555.9	4310.8	5091.5	5050.8	4880.6	4536.5	4691.9	4854.7
65°	1739.1	1765.0	2061.0	2867.7	4111.0	6120.2	6493.9	6001.8	5354.3	5517.1	5872.3
67.5°	1047.2	1062.0	1128.6	1472.7	2612.4	6012.9	8725.2	8403.3	6856.6	6660.5	6701.2
70°	773.4	762.3	780.8	921.4	1280.3	4148.0	9839.0	10801.0	8913.9	7496.7	6564.2
72.5°	614.2	621.6	629.0	766.0	954.7	1724.3	8573.5	10386.6	9568.9	7060.1	4973.1
75°	481.0	484.7	521.7	647.5	914.0	928.8	5428.3	7759.4	7115.6	4769.6	2183.1
77.5°	358.9	370.0	407.0	540.2	877.0	891.8	2364.5	4251.6	3615.1	1961.1	584.6
80°	236.8	240.5	277.5	444.0	828.9	895.5	1069.4	1665.1	1113.8	418.1	214.6
82.5°	133.2	140.6	173.9	277.5	684.5	869.6	899.2	891.8	506.9	207.2	114.7
85°	74.0	74.0	103.6	162.8	407.0	843.7	851.1	751.2	351.5	114.7	62.9
87.5°	33.3	33.3	48.1	74.0	192.4	558.7	629.0	536.5	222.0	48.1	22.2
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°	2260.9	2260.9	2260.9	2260.9	2260.9	2260.9	2260.9	2260.9	2260.9	2260.9	2260.9
2.5°	2231.3	2216.5	2197.9	2157.2	2153.5	2123.9	2116.5	2083.2	2064.7	2090.6	2068.4
5°	2190.5	2172.0	2101.7	2075.8	1987.0	1931.5	1890.8	1839.0	1802.0	1802.0	1805.7
7.5°	2112.8	2079.5	1983.3	1890.8	1779.8	1687.3	1594.8	1491.2	1443.1	1435.7	1402.4
10°	2042.5	1990.7	1857.5	1713.2	1561.5	1398.7	1258.1	1121.2	1013.9	936.2	939.9
12.5°	1983.3	1920.4	1739.1	1543.0	1317.3	1110.1	899.2	736.4	629.0	603.1	603.1
15°	1938.9	1835.3	1605.9	1350.6	1084.2	814.1	610.5	495.8	444.0	418.1	418.1
17.5°	1868.6	1739.1	1472.7	1165.6	828.9	573.5	451.4	399.6	377.4	370.0	366.3
20°	1798.3	1650.3	1298.8	936.2	599.4	418.1	366.3	344.1	336.7	336.7	340.4
22.5°	1735.4	1539.3	1132.3	703.0	429.2	344.1	314.5	307.1	310.8	318.2	314.5
25°	1676.2	1446.8	969.5	514.3	333.0	288.6	281.2	281.2	288.6	296.0	299.7
27.5°	1620.7	1376.5	791.9	381.1	281.2	255.3	255.3	262.7	273.8	277.5	281.2
30°	1580.0	1295.1	625.3	303.4	244.2	236.8	236.8	244.2	247.9	255.3	255.3
32.5°	1546.7	1228.5	477.3	259.0	225.7	222.0	222.0	225.7	229.4	233.1	236.8
35°	1535.6	1158.2	373.7	229.4	214.6	210.9	210.9	210.9	214.6	218.3	218.3
37.5°	1546.7	1106.4	303.4	214.6	203.5	199.8	199.8	199.8	199.8	199.8	199.8
40°	1598.5	1069.4	262.7	207.2	196.1	192.4	188.7	188.7	188.7	192.4	192.4
42.5°	1705.8	1036.1	244.2	199.8	192.4	185.0	181.3	177.6	177.6	185.0	185.0
45°	1850.1	1039.8	233.1	196.1	188.7	177.6	170.2	170.2	173.9	181.3	185.0
47.5°	2031.4	1076.8	225.7	192.4	181.3	170.2	166.5	166.5	170.2	181.3	181.3
50°	2253.5	1147.1	225.7	192.4	181.3	166.5	162.8	162.8	166.5	177.6	181.3
52.5°	2505.1	1269.2	229.4	192.4	181.3	166.5	159.1	159.1	162.8	173.9	173.9
55°	2834.4	1439.4	236.8	196.1	177.6	166.5	159.1	151.7	155.4	162.8	162.8
57.5°	3123.0	1691.0	247.9	196.1	177.6	166.5	155.4	144.3	144.3	151.7	151.7
60°	3581.8	2038.8	292.3	207.2	177.6	159.1	144.3	133.2	133.2	136.9	136.9
62.5°	4192.4	2630.9	336.7	225.7	188.7	155.4	136.9	125.8	122.1	122.1	122.1
65°	5217.4	3282.1	344.1	247.9	207.2	155.4	125.8	114.7	111.0	111.0	111.0
67.5°	5617.0	3293.2	314.5	259.0	229.4	155.4	122.1	107.3	99.9	99.9	99.9
70°	5061.9	2512.5	277.5	259.0	240.5	151.7	118.4	103.6	92.5	88.8	88.8
72.5°	3448.6	1339.5	247.9	244.2	214.6	133.2	114.7	96.2	85.1	81.4	77.7
75°	1380.2	466.2	214.6	222.0	166.5	107.3	96.2	85.1	77.7	70.3	70.3
77.5°	347.8	229.4	162.8	173.9	118.4	85.1	81.4	77.7	66.6	62.9	62.9
80°	192.4	155.4	122.1	118.4	77.7	59.2	59.2	59.2	55.5	51.8	51.8
82.5°	107.3	96.2	81.4	74.0	51.8	40.7	40.7	40.7	40.7	37.0	33.3
85°	59.2	55.5	48.1	37.0	29.6	22.2	22.2	22.2	22.2	18.5	18.5
87.5°	22.2	22.2	18.5	11.1	7.4	3.7	3.7	3.7	3.7	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)