

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: P527167

Luminaire Tested: **GALN-SA2A-830-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527167
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)
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-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4273 lumens
Efficiency: N/A
Efficacy: 67.8 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): 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



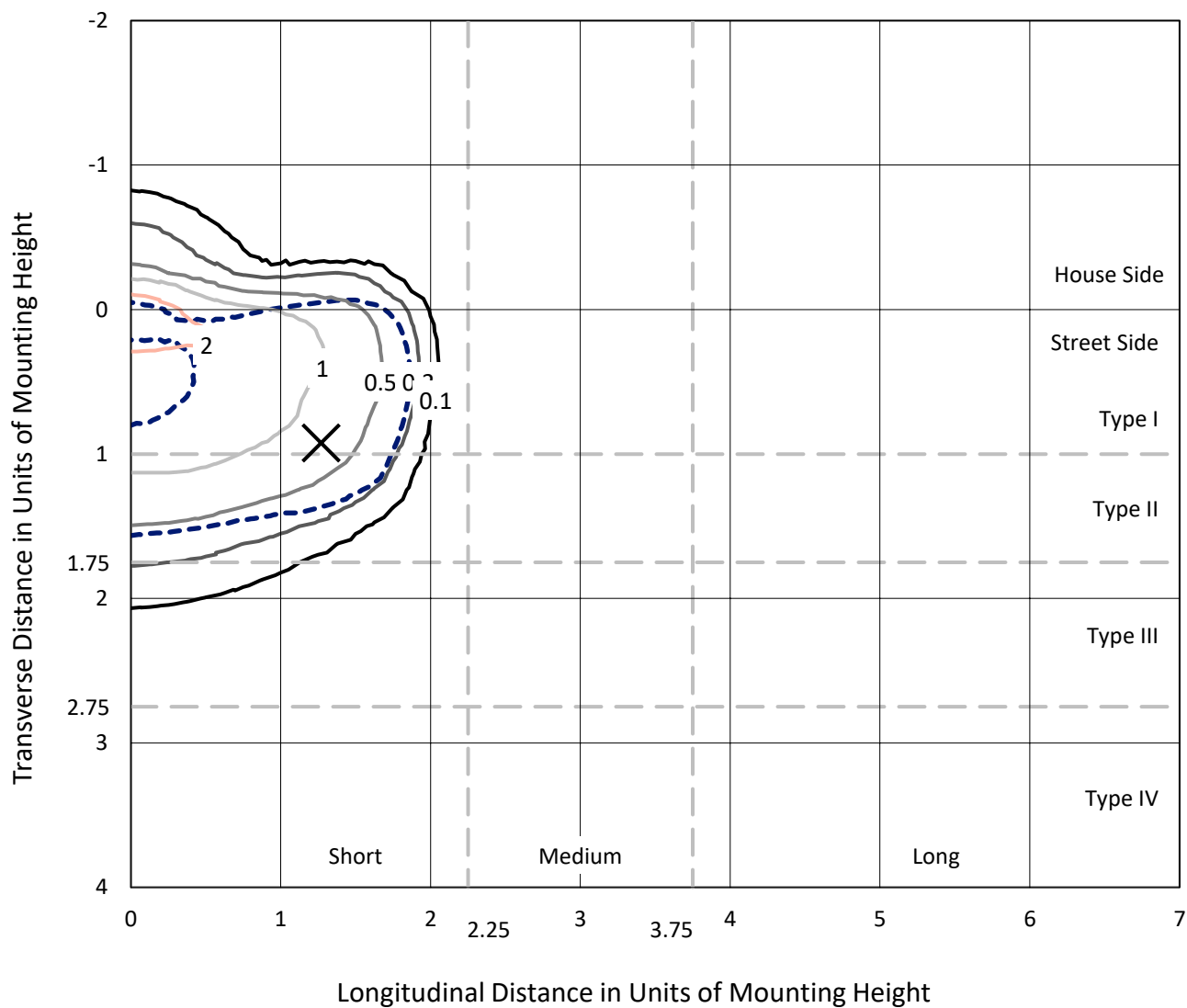
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd



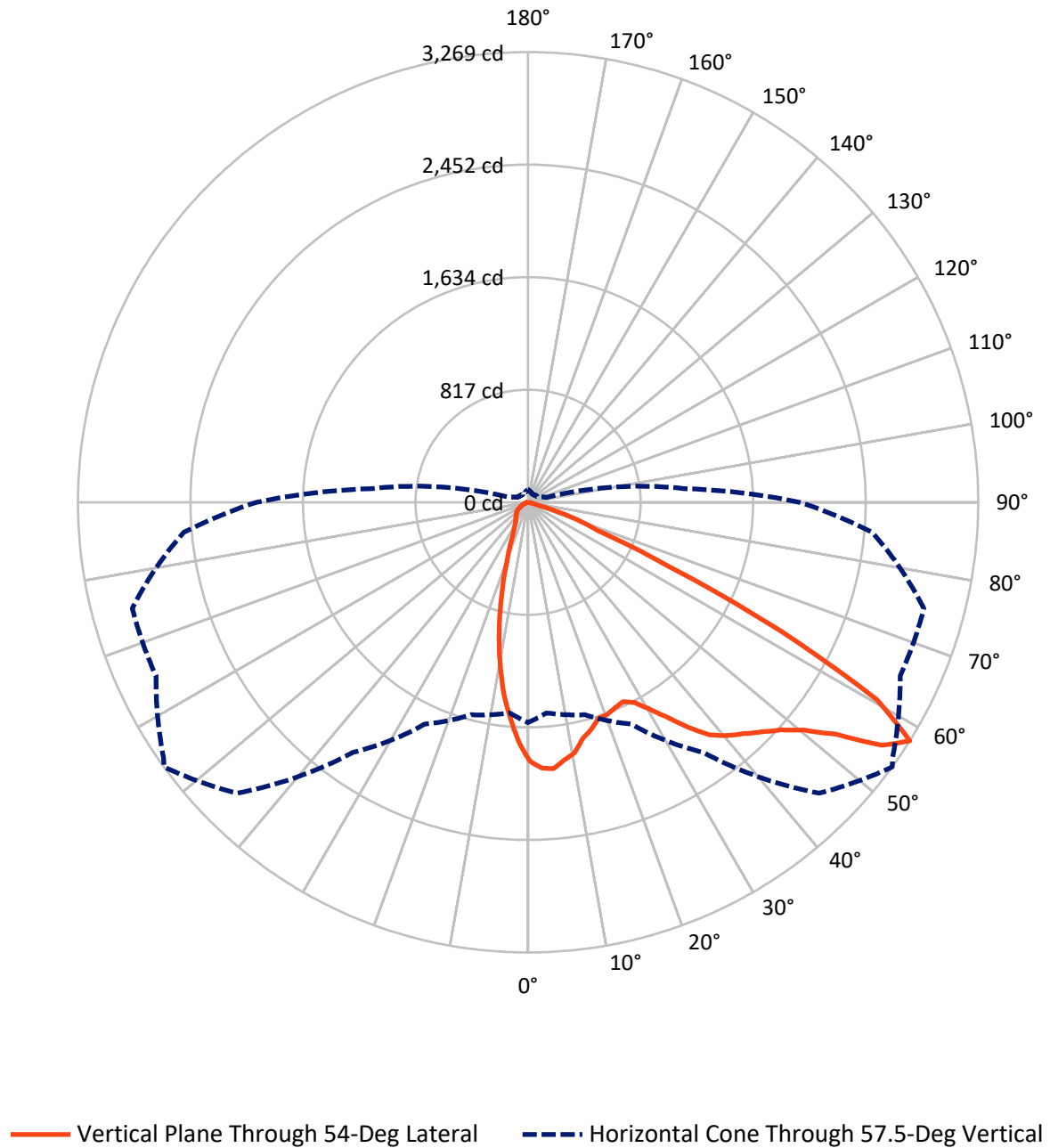
Based on 25 foot mounting height. Maximum calculated value = 3 fc

Type II - Short - N/A

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Luminous Intensity Polar Plot



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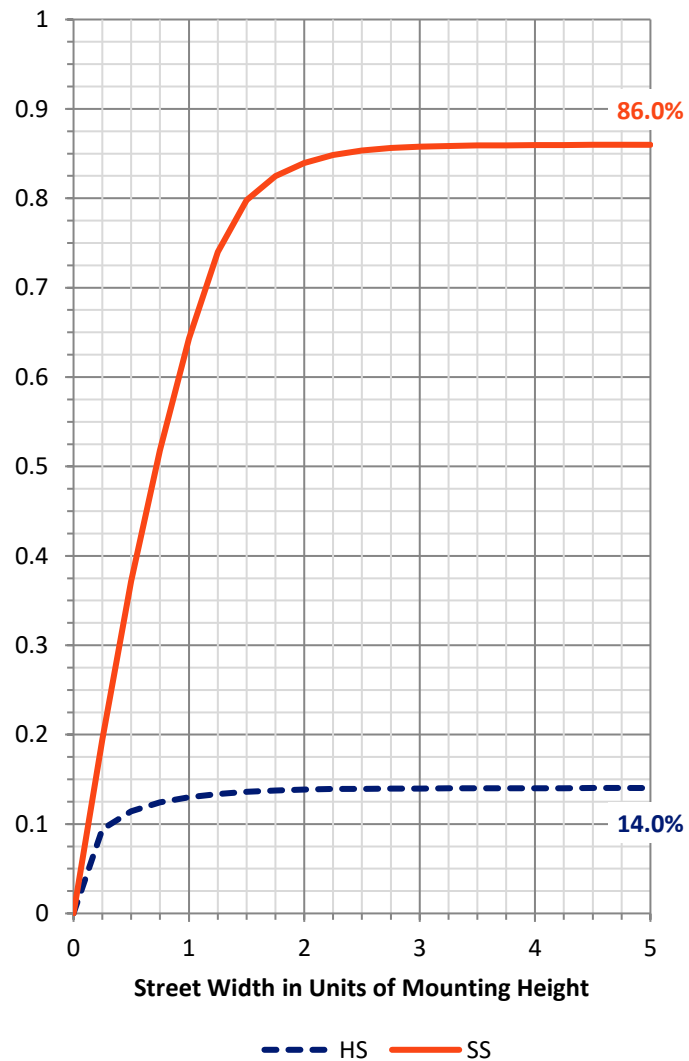
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	603.8	0.0	603.8
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	3669.1	0.0	3669.1
	% Fixture	85.9	0.0	85.9
Total	Lumens	4273.0	0.0	4273.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.5	3.7
10°-20°	336.3	7.9
20°-30°	445.7	10.4
30°-40°	647.7	15.2
40°-50°	960.4	22.5
50°-60°	1200.9	28.1
60°-70°	473.7	11.1
70°-80°	47.2	1.1
80°-90°	3.7	0.1
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°	4273.0	100.0
0°-180°	4273.0	100.0

Coefficient of Utilization



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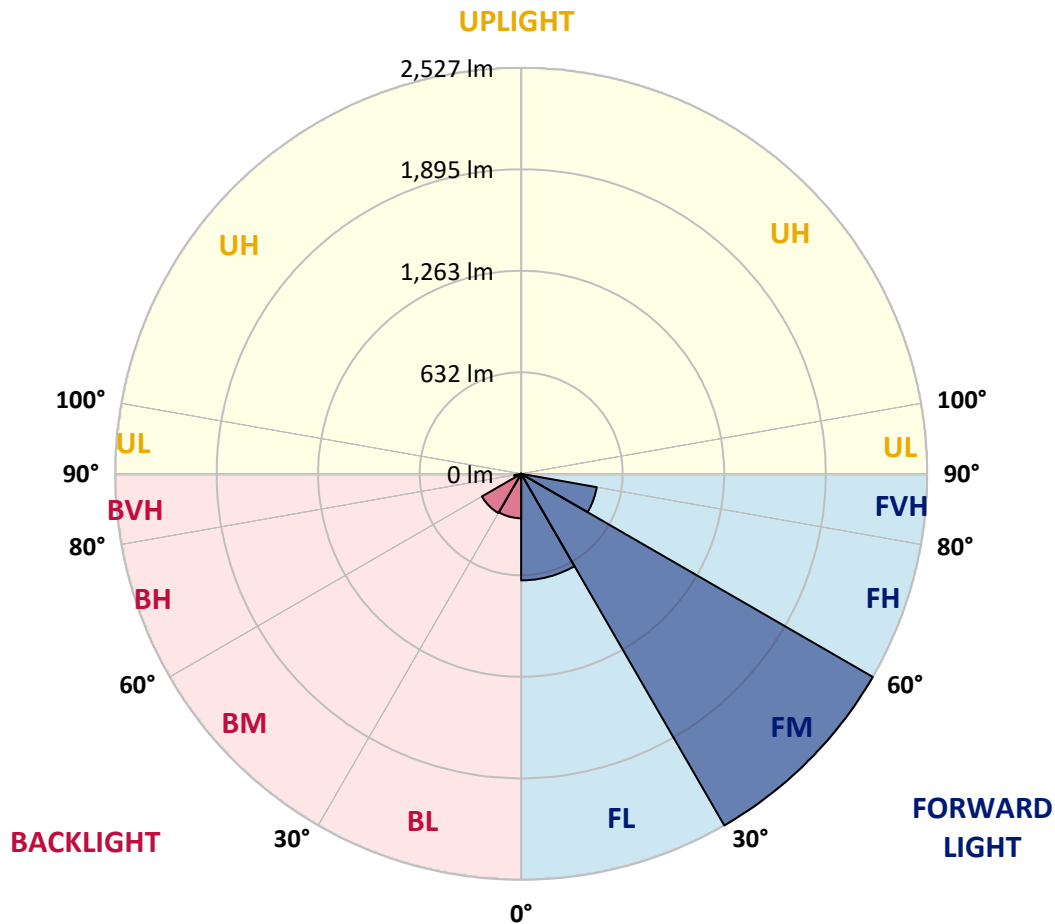
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	663.3	15.5			
FM	(30°-60°)	2526.6	59.1			
FH	(60°-80°)	477.6	11.2			G0/660
FVH	(80°-90°)	1.7	0.0			G0/10
BL	(0°-30°)	276.2	6.5	B1/500		
BM	(30°-60°)	282.4	6.6	B1/1000		
BH	(60°-80°)	43.3	1.0	B0/110		G0/110
BVH	(80°-90°)	2.0	0.0			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°	54°	55°	65°	75°	85°
0°	1882.3	1882.3	1882.3	1882.3	1882.3	1882.3	1882.3	1882.3	1882.3	1882.3	1882.3
2.5°	1992.0	1971.3	1972.9	1965.7	1956.2	1963.4	1932.4	1939.5	1938.7	1896.6	1868.8
5°	1941.9	1964.2	1941.1	1960.2	1941.9	1961.8	1942.7	1928.4	1905.4	1874.4	1822.7
7.5°	1856.9	1835.4	1841.8	1865.6	1869.6	1914.1	1890.3	1908.5	1899.0	1837.8	1767.1
10°	1686.1	1681.3	1713.1	1744.9	1783.8	1831.5	1849.7	1839.4	1832.3	1809.2	1714.7
12.5°	1555.0	1568.5	1567.7	1620.1	1686.1	1713.1	1760.7	1759.2	1798.9	1756.0	1665.4
15°	1430.2	1437.4	1470.7	1503.3	1576.4	1653.5	1712.3	1720.2	1767.9	1737.7	1627.3
17.5°	1353.9	1343.6	1369.8	1408.8	1483.4	1584.4	1649.5	1668.6	1733.7	1727.4	1583.6
20°	1278.4	1278.4	1299.9	1346.0	1414.3	1527.9	1643.9	1638.4	1733.7	1715.5	1536.7
22.5°	1253.0	1265.7	1271.3	1306.3	1387.3	1485.0	1620.1	1630.4	1747.2	1709.9	1516.0
25°	1288.0	1271.3	1272.9	1300.7	1377.0	1464.4	1602.6	1625.7	1771.9	1737.7	1499.3
27.5°	1293.5	1310.2	1315.0	1334.1	1384.9	1470.7	1646.3	1693.2	1833.1	1802.9	1504.1
30°	1342.0	1358.7	1357.9	1390.5	1425.4	1522.4	1744.1	1753.6	1959.4	1884.7	1533.5
32.5°	1400.8	1418.3	1423.9	1462.0	1489.8	1616.9	1863.2	1887.9	2081.0	2013.4	1610.6
35°	1473.9	1467.6	1493.0	1531.1	1590.7	1755.2	2008.6	2050.0	2212.1	2180.3	1690.0
37.5°	1565.3	1557.3	1582.0	1643.9	1725.0	1918.9	2142.9	2169.9	2307.4	2335.2	1837.0
40°	1629.6	1632.8	1707.5	1790.9	1876.8	2074.6	2227.9	2254.2	2374.1	2479.8	1948.3
42.5°	1736.9	1756.8	1846.6	1948.3	2038.0	2191.4	2297.1	2322.5	2405.1	2595.8	2098.4
45°	1892.6	1883.9	1983.2	2096.8	2196.2	2313.0	2378.9	2370.2	2423.4	2711.0	2193.0
47.5°	2092.9	2094.5	2160.4	2257.3	2360.6	2418.6	2470.3	2439.3	2461.5	2832.6	2319.3
50°	2229.5	2241.5	2294.7	2394.0	2445.7	2534.6	2600.6	2581.5	2574.4	2905.7	2398.8
52.5°	2264.5	2300.3	2328.9	2452.8	2573.6	2714.2	2798.4	2839.0	2711.8	2930.3	2499.7
55°	2000.7	2032.5	2133.4	2303.4	2622.0	2998.7	3114.7	3115.5	2891.4	3040.0	2570.4
57.5°	1599.5	1535.1	1597.1	1777.4	2216.8	2986.8	3268.8	3231.5	2981.2	2975.6	2509.2
60°	1106.0	1090.1	1094.1	1165.6	1534.3	2375.7	2912.9	2961.3	2745.2	2579.1	1986.4
62.5°	876.4	862.9	845.4	837.5	952.7	1480.3	2054.7	2123.1	1919.7	1672.6	1177.5
65°	686.5	678.6	680.9	712.7	711.9	839.9	1123.5	1095.7	877.2	648.4	370.3
67.5°	463.2	475.1	484.7	580.8	630.1	584.8	542.7	526.8	285.2	120.0	81.8
70°	260.6	262.2	272.5	363.1	478.3	453.7	374.2	374.2	142.2	43.7	46.9
72.5°	142.2	137.5	127.9	156.5	212.9	216.1	166.9	145.4	42.1	28.6	26.2
75°	69.1	68.3	58.8	48.5	46.1	38.1	29.4	27.0	19.1	18.3	15.9
77.5°	14.3	13.5	7.2	7.2	7.9	8.7	11.1	11.1	13.5	13.5	11.1
80°	0.0	0.0	0.8	3.2	5.6	7.9	9.5	9.5	11.1	11.1	8.7
82.5°	0.0	0.0	0.8	2.4	4.8	7.2	8.7	9.5	11.1	11.9	9.5
85°	0.0	0.0	0.0	1.6	4.0	5.6	4.8	4.8	4.0	3.2	1.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1882.3	1882.3	1882.3	1882.3	1882.3	1882.3	1882.3	1882.3	1882.3	1882.3	1882.3
2.5°	1854.5	1852.9	1816.4	1795.7	1758.4	1725.8	1699.6	1680.5	1680.5	1668.6	1657.5
5°	1802.1	1788.6	1710.7	1660.6	1589.9	1537.5	1501.7	1473.9	1430.2	1442.1	1395.2
7.5°	1736.9	1702.7	1599.5	1523.2	1425.4	1350.8	1274.5	1206.9	1141.8	1112.4	1128.3
10°	1667.0	1607.4	1468.3	1347.6	1226.0	1089.3	1000.4	892.3	825.5	821.6	804.1
12.5°	1593.1	1525.6	1356.3	1189.5	1029.8	865.3	729.4	628.5	583.2	533.2	542.7
15°	1537.5	1437.4	1231.6	1030.5	818.4	652.3	515.7	437.8	394.9	383.0	379.0
17.5°	1477.1	1369.8	1104.4	861.3	642.0	469.6	371.1	333.7	317.0	317.0	314.6
20°	1414.3	1293.5	978.1	704.0	481.5	350.4	297.2	285.2	284.5	283.7	283.7
22.5°	1373.0	1206.1	863.7	559.4	363.1	280.5	258.2	253.5	256.6	266.2	266.2
25°	1329.3	1121.9	737.4	431.4	281.3	240.8	228.0	231.2	239.2	247.9	244.7
27.5°	1284.8	1067.1	618.2	338.5	230.4	210.6	205.8	212.9	221.7	229.6	227.2
30°	1274.5	1008.3	505.3	256.6	197.8	183.5	186.7	193.1	201.8	205.0	208.2
32.5°	1290.4	962.2	414.0	210.6	172.4	168.4	168.4	171.6	177.2	184.3	182.0
35°	1335.7	936.0	327.4	182.7	158.1	154.1	153.4	156.5	159.7	162.1	159.7
37.5°	1404.8	915.3	267.8	162.1	148.6	142.2	140.6	139.8	143.0	143.8	145.4
40°	1493.0	926.5	227.2	149.4	139.0	131.9	127.1	127.1	127.1	129.5	130.3
42.5°	1588.3	941.6	196.3	142.2	130.3	121.6	116.8	115.2	116.8	120.0	119.2
45°	1688.4	971.0	176.4	131.1	122.4	111.2	104.9	103.3	107.3	113.6	112.8
47.5°	1782.2	1013.1	161.3	124.0	114.4	104.1	96.1	94.6	101.7	110.4	111.2
50°	1876.0	1086.2	155.7	118.4	108.9	96.9	89.8	88.2	96.1	107.3	109.6
52.5°	1984.0	1164.8	151.8	111.2	102.5	91.4	83.4	81.8	90.6	104.9	105.7
55°	2054.7	1231.6	148.6	98.5	90.6	82.6	76.3	75.5	85.0	97.7	100.9
57.5°	1972.1	1138.6	137.5	85.8	77.1	73.1	67.5	67.5	75.5	87.4	89.8
60°	1495.4	749.3	97.7	69.1	65.2	62.8	60.4	60.4	66.7	75.5	76.3
62.5°	875.6	403.6	62.8	55.6	55.6	53.2	49.3	49.3	55.6	60.4	61.2
65°	259.8	129.5	50.9	47.7	46.9	42.9	38.9	38.1	42.9	45.3	44.5
67.5°	74.7	59.6	42.1	39.7	38.9	32.6	30.2	29.4	30.2	28.6	27.8
70°	44.5	40.5	32.6	33.4	29.4	23.8	21.5	20.7	19.1	16.7	15.1
72.5°	24.6	24.6	23.8	25.4	20.7	15.9	13.5	11.1	8.7	7.2	6.4
75°	15.1	15.9	16.7	17.5	13.5	10.3	8.7	5.6	3.2	1.6	1.6
77.5°	10.3	11.1	11.9	12.7	11.1	9.5	7.2	4.0	0.8	0.0	0.0
80°	7.9	8.7	10.3	11.1	11.9	12.7	9.5	4.0	0.8	0.0	0.0
82.5°	8.7	9.5	11.9	11.1	11.1	11.1	8.7	4.0	0.8	0.0	0.0
85°	1.6	2.4	4.0	4.0	5.6	7.2	5.6	1.6	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)