

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: P647770

Luminaire Tested: **GALN-SA2A-835-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647770
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2A-835-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5956.3 lumens
Efficiency: N/A
Efficacy: 94.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

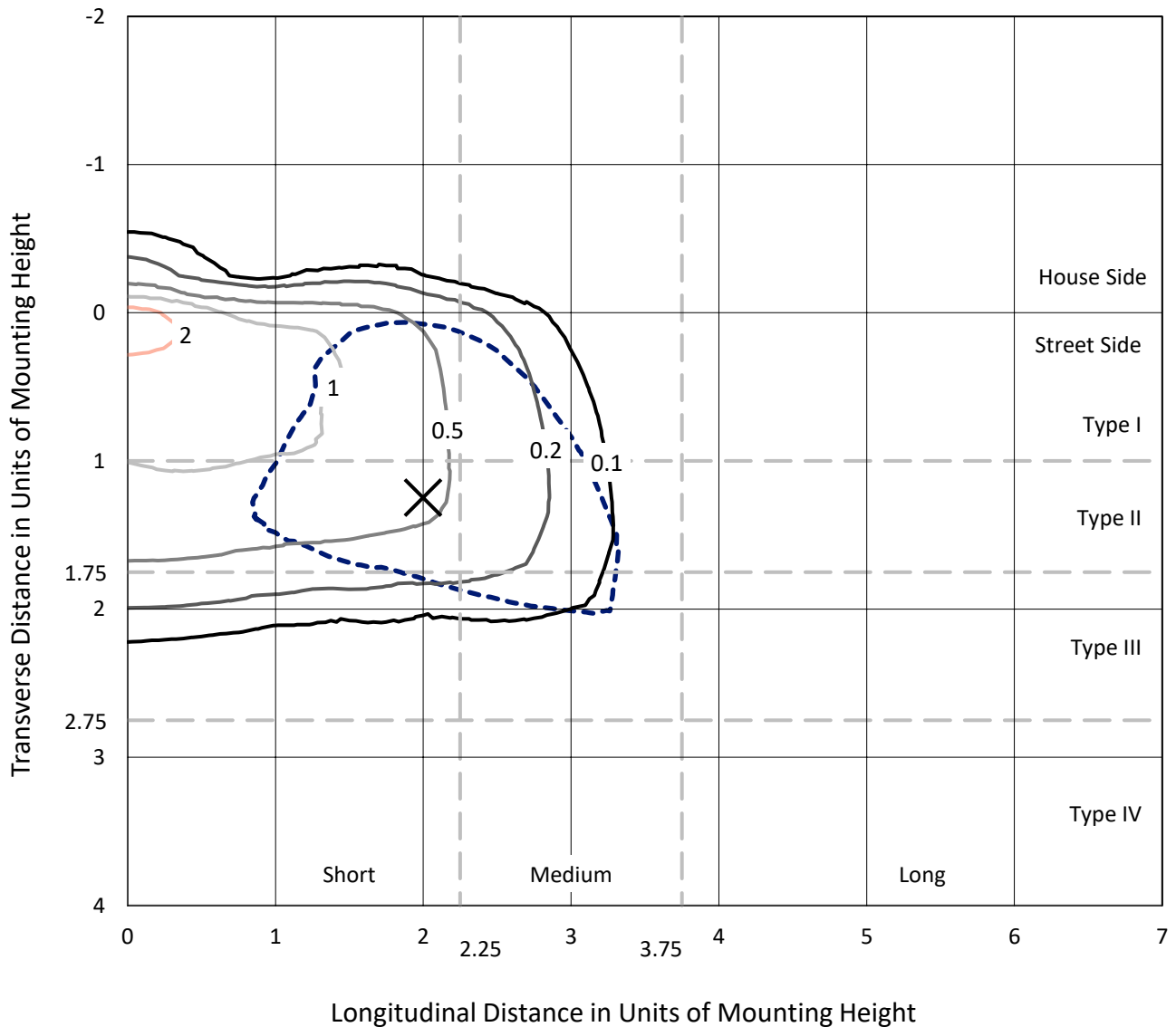
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

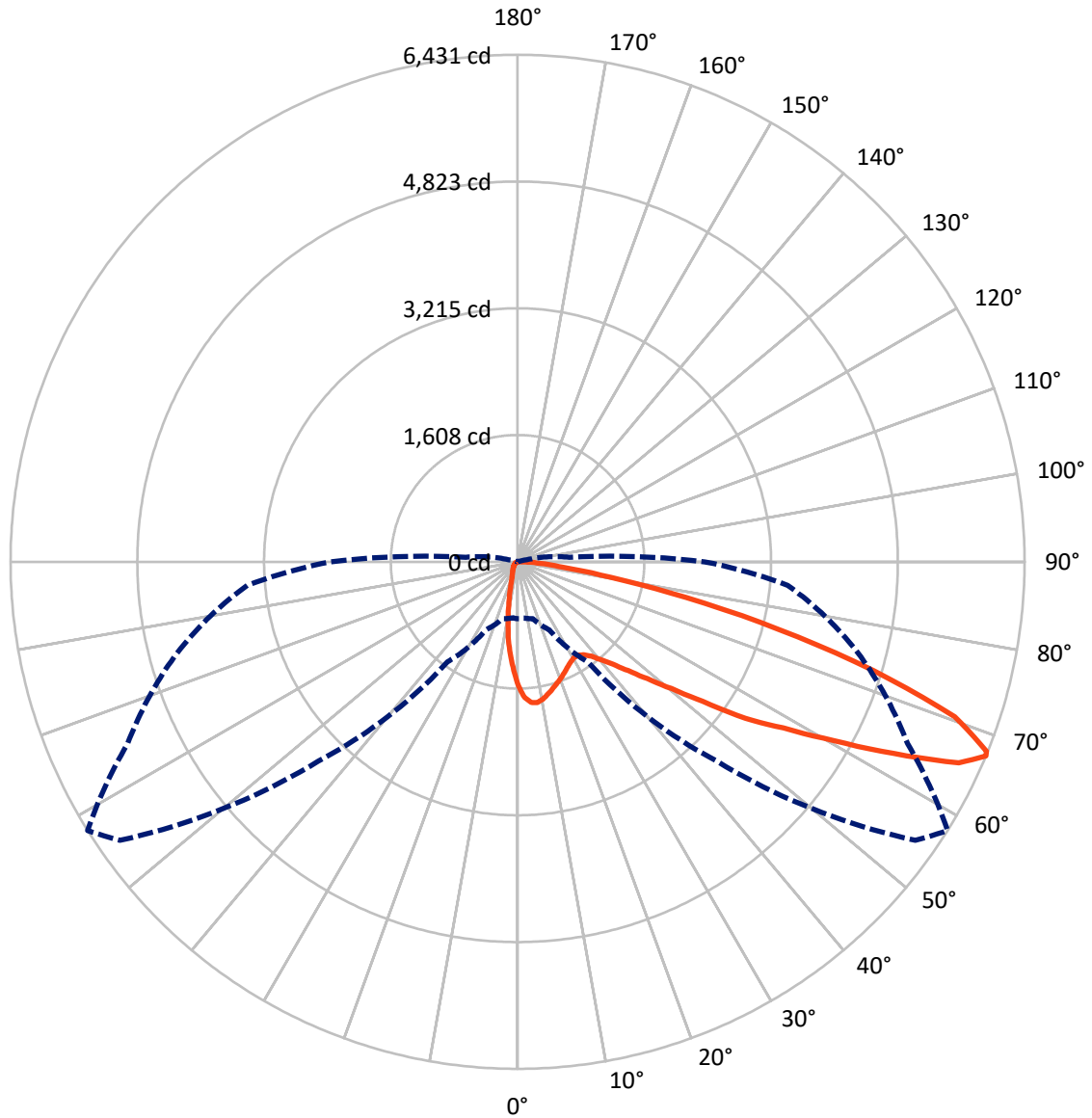
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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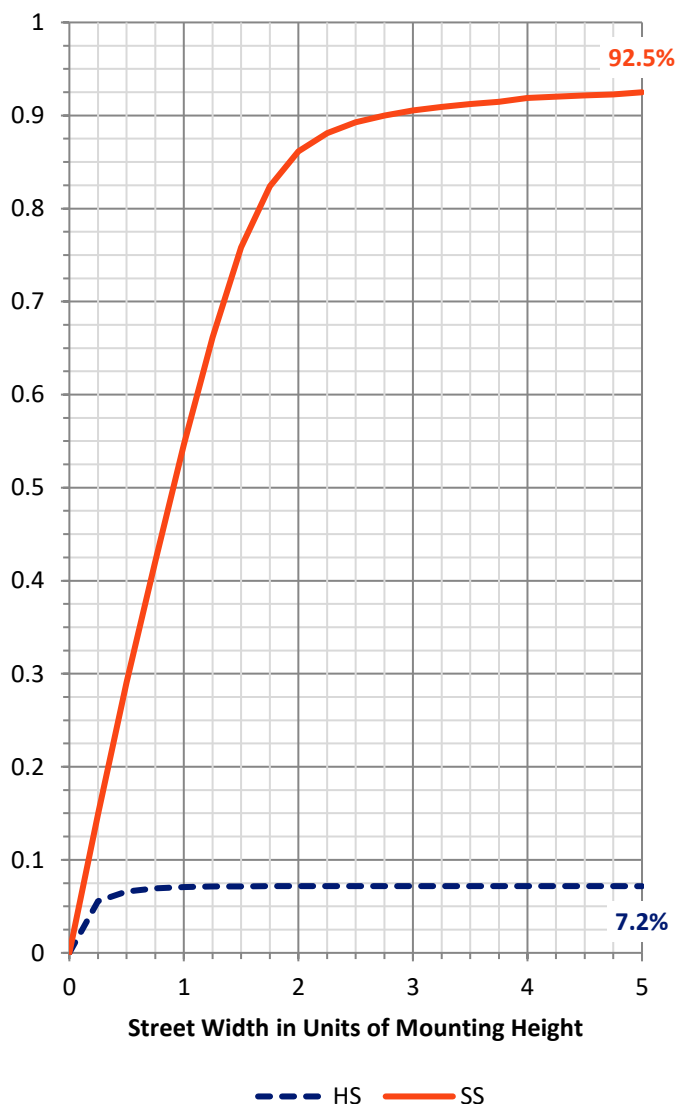
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	429.8	0.0	429.8
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	5526.4	0.0	5526.4
	% Fixture	92.8	0.0	92.8
Total	Lumens	5956.3	0.0	5956.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.1	2.2
10°-20°	276.7	4.6
20°-30°	375.0	6.3
30°-40°	520.1	8.7
40°-50°	829.5	13.9
50°-60°	1433.8	24.1
60°-70°	1637.9	27.5
70°-80°	682.8	11.5
80°-90°	72.4	1.2
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°	5956.3	100.0
0°-180°	5956.3	100.0

Coefficient of Utilization



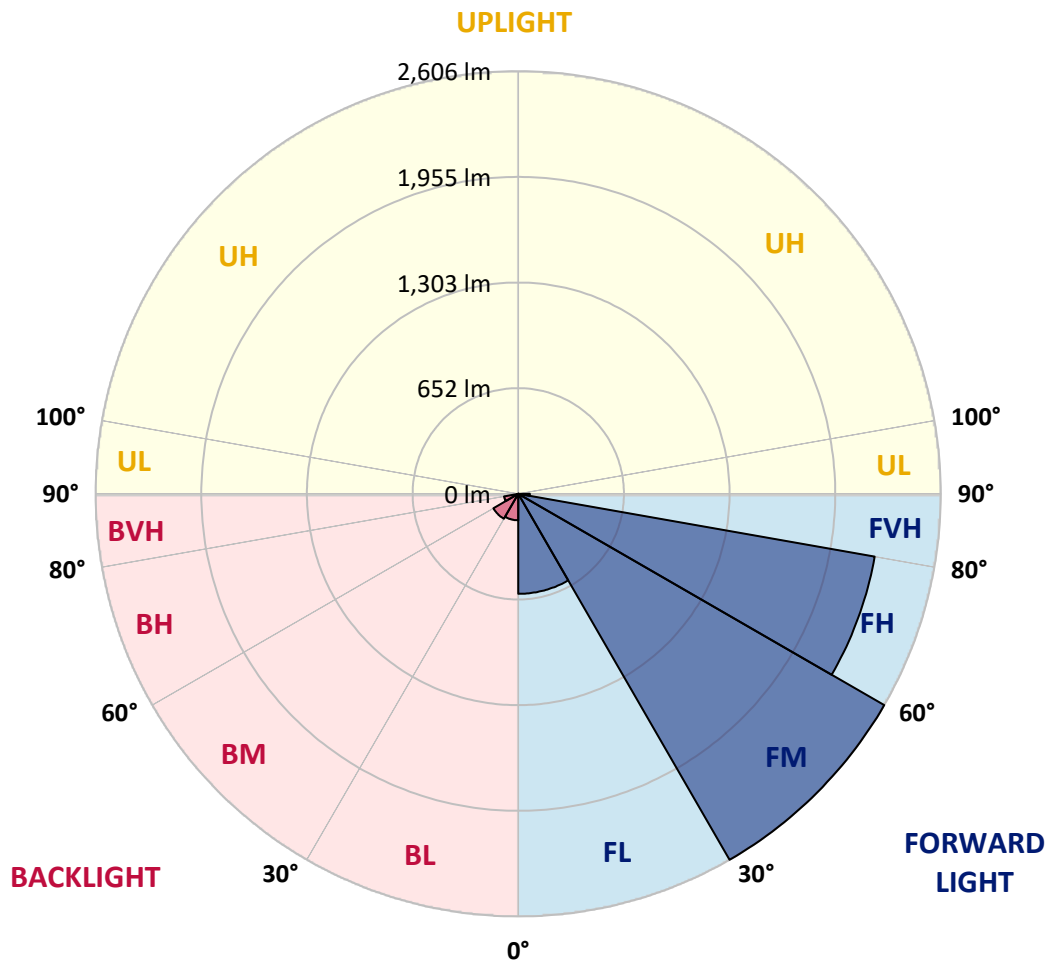
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	616.6	10.4			
FM (30°-60°)	2606.1	43.8			
FH (60°-80°)	2231.8	37.5			G2/5000
FVH (80°-90°)	71.9	1.2			G1/100
BL (0°-30°)	163.2	2.7	B1/500		
BM (30°-60°)	177.2	3.0	B0/220		
BH (60°-80°)	88.9	1.5	B0/110		G0/110
BVH (80°-90°)	0.5	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-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1578.9	1578.9	1578.9	1578.9	1578.9	1578.9	1578.9	1578.9	1578.9	1578.9	1578.9
2.5°	1832.5	1835.3	1824.9	1816.6	1795.1	1772.0	1741.3	1725.0	1697.2	1649.0	1595.7
5°	1875.5	1879.0	1877.5	1875.5	1867.1	1844.8	1805.8	1791.5	1750.5	1672.1	1575.8
7.5°	1780.0	1793.1	1794.7	1810.2	1824.9	1826.9	1812.2	1801.4	1763.6	1671.7	1540.3
10°	1653.4	1662.2	1674.9	1692.8	1728.2	1757.7	1772.0	1770.4	1748.5	1659.3	1499.0
12.5°	1525.6	1530.4	1549.9	1580.6	1623.9	1674.1	1712.3	1719.9	1720.3	1644.6	1464.3
15°	1415.7	1413.8	1428.9	1464.3	1525.2	1588.1	1656.6	1668.5	1687.6	1630.3	1432.1
17.5°	1321.9	1332.2	1334.5	1373.5	1429.7	1511.3	1598.5	1619.6	1657.8	1618.0	1405.4
20°	1263.7	1269.3	1274.5	1296.3	1346.9	1432.9	1543.9	1573.0	1629.9	1606.8	1375.6
22.5°	1246.6	1250.2	1245.8	1252.6	1288.4	1364.8	1484.6	1523.2	1603.3	1596.5	1351.3
25°	1259.8	1263.3	1253.0	1245.0	1257.3	1309.5	1427.3	1474.3	1581.7	1594.5	1333.0
27.5°	1291.6	1298.4	1284.0	1269.7	1262.5	1279.7	1382.3	1436.9	1567.0	1604.1	1324.6
30°	1341.4	1345.4	1334.5	1317.1	1300.7	1283.7	1358.8	1411.0	1563.0	1626.3	1323.8
32.5°	1395.5	1403.8	1397.9	1386.3	1365.2	1324.6	1365.6	1411.7	1572.6	1658.6	1333.8
35°	1462.3	1471.9	1477.4	1475.1	1448.0	1397.4	1408.6	1447.6	1598.0	1717.9	1360.9
37.5°	1528.0	1536.4	1567.8	1578.5	1554.6	1506.9	1492.2	1518.1	1654.2	1795.5	1409.8
40°	1603.3	1614.4	1658.6	1699.6	1688.0	1637.9	1610.8	1632.3	1740.1	1912.5	1502.5
42.5°	1675.3	1695.2	1762.5	1834.9	1845.6	1789.5	1771.6	1778.7	1867.5	2080.9	1631.9
45°	1777.6	1796.3	1883.0	1981.4	2031.9	1988.1	1969.8	1968.6	2042.2	2317.7	1841.6
47.5°	1925.2	1941.9	2044.3	2141.3	2231.3	2237.3	2202.7	2214.6	2261.9	2594.7	2098.8
50°	2106.3	2145.7	2213.0	2314.1	2434.3	2531.4	2542.2	2526.3	2566.8	2915.5	2407.6
52.5°	2369.4	2384.5	2446.2	2529.4	2670.3	2835.1	2962.9	2941.0	2928.3	3221.2	2719.7
55°	2565.7	2585.9	2681.9	2796.1	3002.6	3220.0	3497.0	3504.6	3343.8	3515.0	3025.0
57.5°	2506.4	2537.4	2682.6	2912.4	3366.5	3763.7	3969.9	3975.1	3728.3	3800.3	3369.6
60°	2201.9	2216.6	2424.7	2731.3	3397.5	4352.8	4640.5	4598.7	4119.5	4119.5	3674.1
62.5°	1561.5	1584.6	1753.3	2204.2	3068.3	4557.4	5443.7	5357.4	4658.5	4424.8	3855.6
65°	997.9	975.5	1087.4	1391.5	2285.8	4255.3	6143.1	6148.3	5165.5	4547.0	3756.5
67°	722.8	714.0	746.3	951.3	1549.9	3577.1	6157.8	6430.5	5456.9	4469.8	3439.7
67.5°	661.1	667.9	691.4	858.2	1408.2	3255.0	6091.0	6413.7	5522.6	4423.2	3325.1
70°	501.1	489.5	515.1	607.0	844.2	2053.4	5239.6	5882.4	5441.0	3961.1	2656.8
72.5°	368.6	367.4	402.8	496.3	650.0	1093.8	3933.2	4716.6	4445.1	3016.2	1672.9
75°	248.8	259.9	316.4	414.8	589.1	709.2	2681.5	3421.8	3085.9	1712.7	683.8
77.5°	141.7	142.5	203.8	333.2	529.0	570.7	1588.9	2180.0	1633.5	569.6	203.0
80°	61.3	67.3	101.1	242.0	438.6	505.5	911.1	1198.1	660.7	120.6	65.7
82.5°	22.7	26.7	44.6	148.8	320.0	416.3	550.4	572.0	224.1	42.6	41.0
85°	0.0	0.8	16.3	69.7	166.8	185.9	367.8	339.1	99.1	20.3	26.7
87.5°	0.0	0.0	0.0	7.1	21.9	69.2	114.2	127.4	23.9	7.1	6.3
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°	1578.9	1578.9	1578.9	1578.9	1578.9	1578.9	1578.9	1578.9	1578.9	1578.9	1578.9
2.5°	1567.0	1541.2	1476.3	1411.4	1363.2	1323.0	1262.5	1229.5	1212.0	1186.1	1187.7
5°	1527.6	1475.1	1360.9	1242.6	1147.1	1054.0	942.5	897.6	859.7	838.2	823.9
7.5°	1469.1	1391.5	1222.3	1064.7	917.8	755.0	632.8	551.2	496.3	476.1	456.6
10°	1405.0	1301.9	1081.8	863.3	659.5	491.6	388.1	313.3	286.6	261.9	264.3
12.5°	1345.7	1220.3	952.8	681.4	462.1	312.4	243.6	213.0	204.2	201.4	201.4
15°	1297.1	1142.3	814.3	512.2	316.8	224.5	195.0	186.7	183.5	182.7	182.7
17.5°	1245.4	1068.3	689.4	378.5	230.4	187.8	177.9	172.3	171.2	170.4	170.4
20°	1199.2	993.9	570.7	281.8	186.3	169.1	162.8	159.2	158.0	157.2	157.6
22.5°	1155.5	927.8	459.3	213.0	164.0	154.0	147.7	144.1	141.7	139.7	140.1
25°	1116.5	864.1	369.3	174.3	147.7	138.9	132.6	127.4	122.2	119.8	119.4
27.5°	1089.0	808.4	287.8	149.2	133.0	123.4	115.4	109.1	102.3	98.7	97.9
30°	1066.3	751.8	227.7	131.8	118.2	109.1	99.1	90.0	82.8	79.2	77.6
32.5°	1051.6	698.1	179.5	117.4	105.9	94.7	83.5	74.5	66.5	62.9	62.1
35°	1049.2	653.2	146.9	105.5	94.7	82.8	71.3	61.3	54.5	51.0	50.1
37.5°	1066.3	618.5	123.0	95.9	85.6	72.4	59.7	50.6	44.6	41.8	41.4
40°	1112.1	596.6	106.6	87.9	77.2	62.9	51.0	43.0	37.0	34.2	34.2
42.5°	1199.2	597.4	95.9	80.4	68.8	53.7	43.4	35.8	30.6	28.3	27.5
45°	1335.3	624.5	86.8	72.8	60.9	46.6	37.0	29.4	24.3	22.3	22.3
47.5°	1517.7	678.2	78.8	65.3	53.7	39.8	31.5	23.9	19.5	17.5	17.5
50°	1756.1	764.6	72.0	58.9	47.8	34.2	25.4	19.5	15.1	13.5	13.2
52.5°	2005.3	871.2	64.0	53.3	41.0	29.0	20.7	15.1	11.5	10.3	9.9
55°	2280.3	975.5	56.5	47.8	33.4	24.3	16.3	11.9	8.4	7.1	7.1
57.5°	2557.7	1077.9	47.4	39.8	26.2	17.9	12.8	8.8	5.6	4.4	4.4
60°	2792.5	1110.8	40.2	32.3	19.9	12.8	9.2	5.6	3.2	2.0	2.0
62.5°	2824.8	999.4	33.8	24.7	14.3	8.8	4.8	3.2	1.2	0.8	0.8
65°	2649.7	812.0	28.3	18.7	9.6	4.4	2.0	1.2	0.4	0.0	0.0
67°	2374.2	658.3	23.1	13.9	6.7	2.8	1.2	0.4	0.0	0.0	0.0
67.5°	2303.7	627.7	22.3	13.2	6.0	2.3	0.8	0.4	0.0	0.0	0.0
70°	1807.8	470.0	15.9	8.0	3.6	1.6	0.0	0.0	0.0	0.0	0.0
72.5°	1123.6	265.9	11.5	4.8	2.3	0.8	0.0	0.0	0.0	0.0	0.0
75°	424.7	93.1	8.0	3.2	1.6	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	132.2	35.4	4.8	2.3	0.8	0.0	0.0	0.0	0.0	0.0	0.0
80°	44.6	13.5	3.2	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	27.5	5.6	2.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	17.1	2.3	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.2	0.8	0.4	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)