

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: P382774

Luminaire Tested: **GLEON-SA1C-735-U-SL3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382774
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-23)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA1C-735-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 1050mA LIGHTSQUARE WITH 16 LEDS 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: 5893 lumens
Efficiency: N/A
Efficacy: 99.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

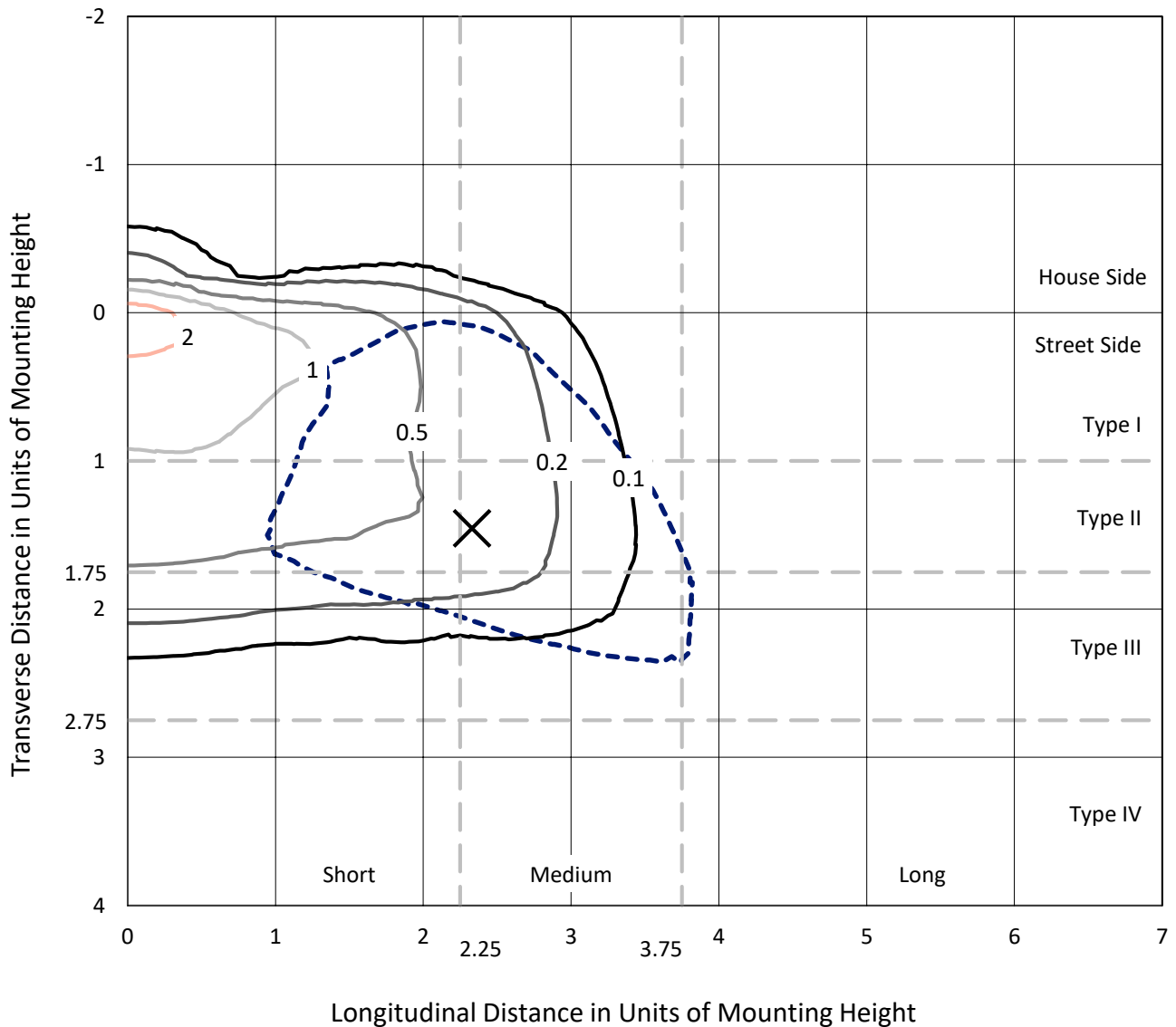
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

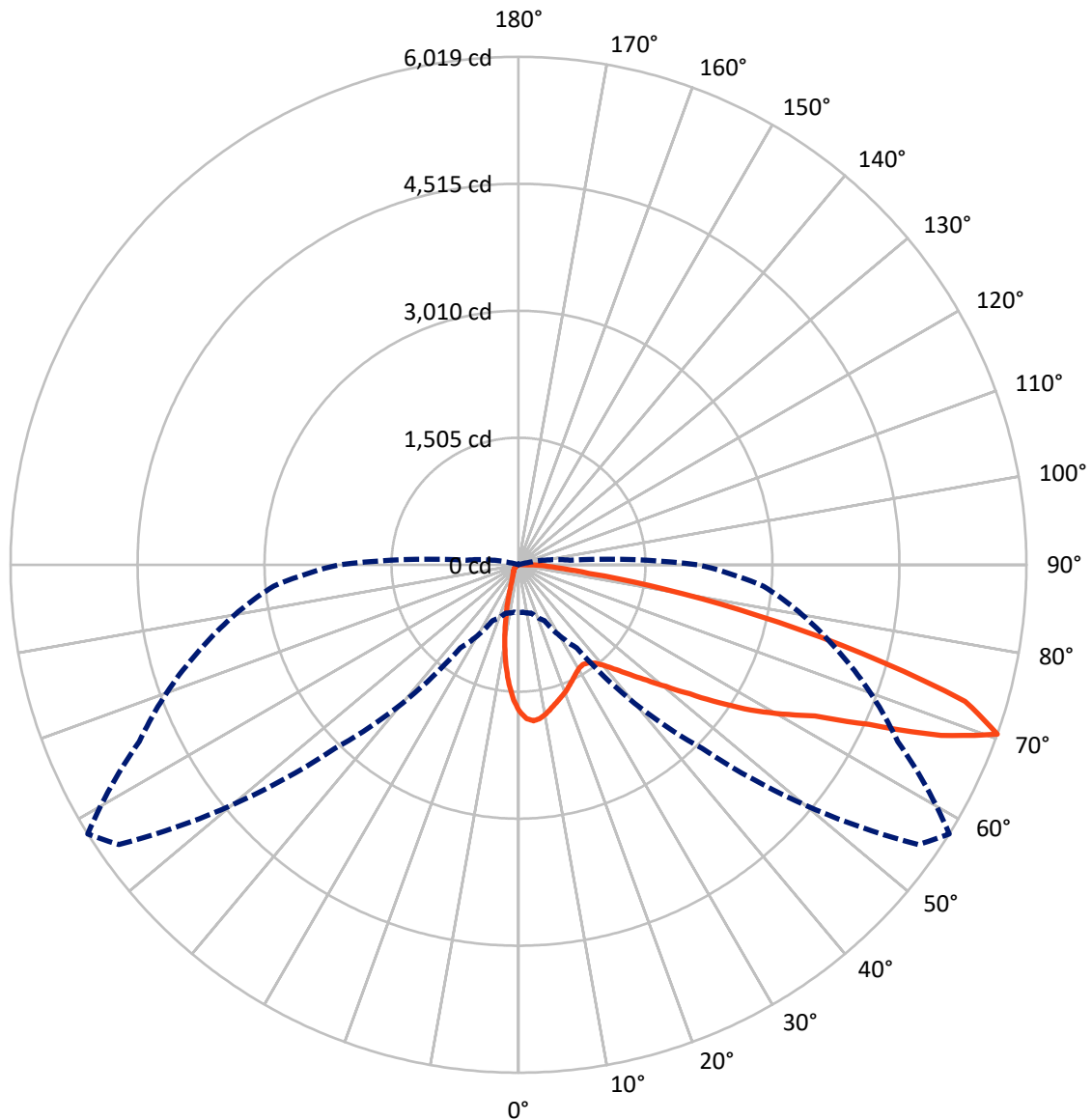
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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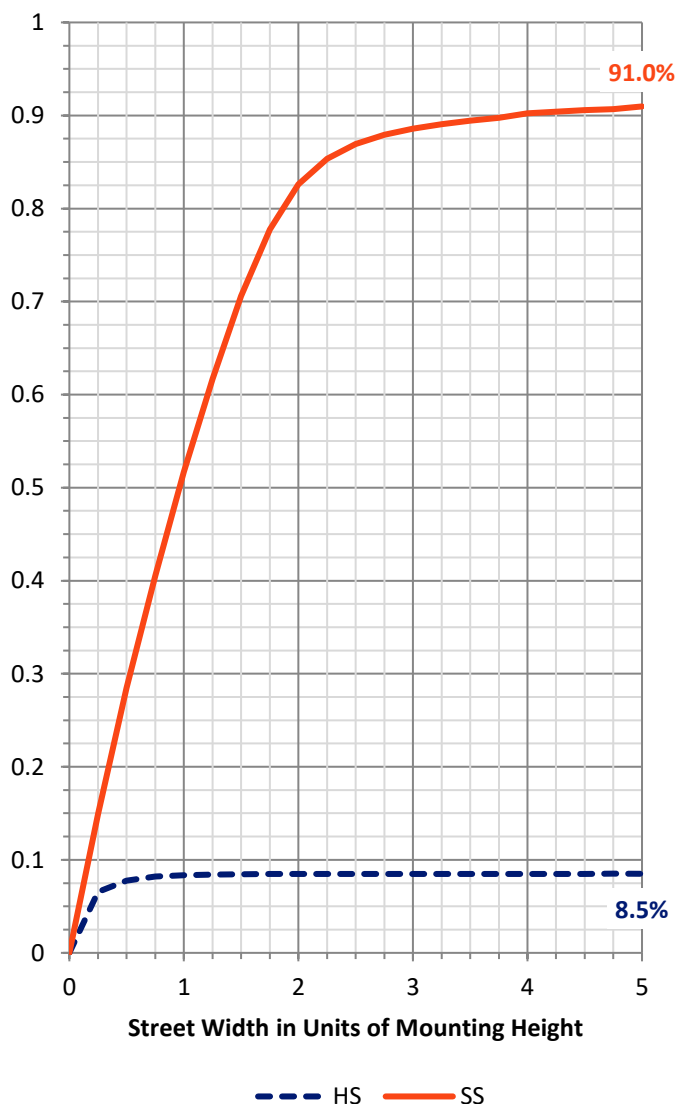
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	504.3	0.0	504.3
	% Fixture	8.6	0.0	8.6
Street Side	Lumens	5388.7	0.0	5388.7
	% Fixture	91.4	0.0	91.4
Total	Lumens	5893.0	0.0	5893.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.3	2.4
10°-20°	298.8	5.1
20°-30°	392.8	6.7
30°-40°	520.2	8.8
40°-50°	777.5	13.2
50°-60°	1245.5	21.1
60°-70°	1570.0	26.6
70°-80°	846.8	14.4
80°-90°	99.1	1.7
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°	5893.0	100.0
0°-180°	5893.0	100.0

Coefficient of Utilization

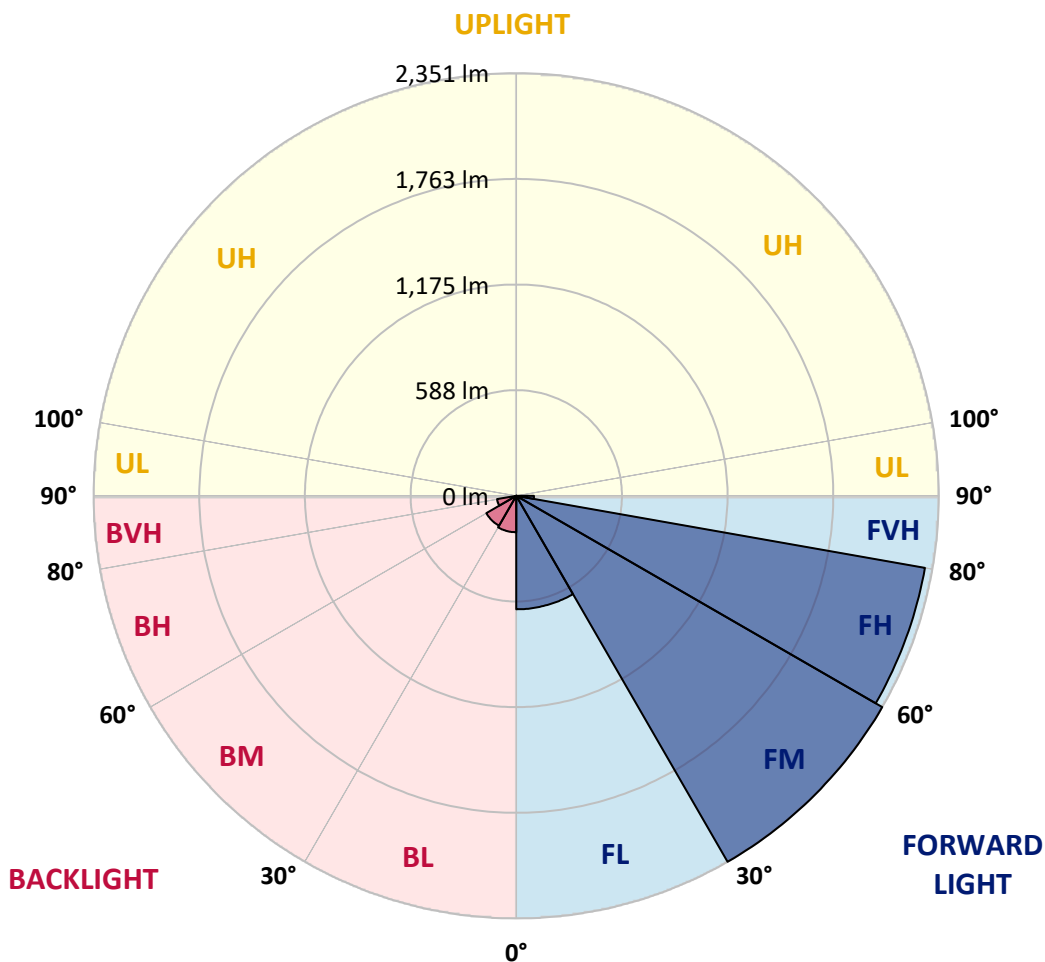


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	631.3	10.7			
FM (30°-60°)	2350.8	39.9			
FH (60°-80°)	2308.3	39.2			G2/5000
FVH (80°-90°)	98.3	1.7			G1/100
BL (0°-30°)	202.6	3.4	B1/500		
BM (30°-60°)	192.4	3.3	B0/220		
BH (60°-80°)	108.5	1.8	B0/110		G0/110
BVH (80°-90°)	0.9	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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1740.8	1740.8	1740.8	1740.8	1740.8	1740.8	1740.8	1740.8	1740.8	1740.8	1740.8
2.5°	1885.1	1880.4	1878.7	1875.8	1864.5	1853.5	1831.7	1825.6	1811.9	1779.3	1744.7
5°	1886.6	1886.3	1891.4	1890.2	1886.3	1881.2	1865.5	1857.4	1834.1	1787.5	1724.3
7.5°	1795.7	1800.3	1811.9	1821.1	1831.9	1845.9	1847.8	1840.0	1820.9	1770.7	1686.8
10°	1673.6	1681.0	1697.1	1715.5	1743.7	1771.6	1796.6	1795.7	1789.0	1739.6	1641.8
12.5°	1551.3	1559.9	1578.5	1605.7	1645.7	1691.2	1735.8	1742.0	1753.0	1711.6	1600.1
15°	1444.3	1451.6	1470.0	1503.3	1552.8	1614.1	1679.5	1690.8	1719.2	1689.8	1565.3
17.5°	1353.4	1358.0	1371.5	1408.5	1465.8	1540.0	1625.1	1647.2	1689.5	1672.6	1535.2
20°	1289.9	1290.7	1299.4	1325.4	1382.8	1465.8	1568.7	1600.3	1658.2	1658.0	1504.1
22.5°	1258.5	1256.1	1257.8	1272.8	1314.9	1395.0	1512.4	1549.9	1630.0	1645.4	1472.4
25°	1252.7	1250.7	1245.8	1247.7	1273.2	1333.0	1455.5	1498.9	1605.2	1637.8	1445.0
27.5°	1271.0	1273.0	1264.7	1255.8	1257.8	1292.8	1405.1	1455.3	1585.1	1637.8	1425.6
30°	1308.0	1309.0	1302.9	1291.3	1275.9	1281.5	1370.0	1420.2	1575.2	1649.1	1413.3
32.5°	1349.0	1354.3	1353.6	1344.3	1322.2	1299.4	1361.6	1407.5	1574.4	1674.1	1412.1
35°	1399.7	1405.8	1416.0	1414.1	1391.1	1353.6	1390.1	1426.1	1588.8	1715.3	1425.4
37.5°	1453.6	1462.9	1485.0	1495.5	1480.5	1438.1	1453.8	1479.6	1627.5	1782.0	1459.0
40°	1505.8	1516.3	1556.5	1597.9	1586.6	1543.0	1550.4	1571.0	1696.4	1877.7	1522.7
42.5°	1557.0	1572.6	1631.7	1699.8	1713.3	1678.6	1682.5	1698.9	1798.5	2009.5	1626.9
45°	1618.2	1635.9	1723.4	1807.4	1843.4	1828.3	1844.9	1855.6	1932.1	2183.8	1767.2
47.5°	1708.2	1728.5	1835.8	1931.7	1994.8	2004.7	2038.2	2045.3	2100.9	2386.7	1950.3
50°	1883.6	1889.3	1986.2	2073.3	2164.5	2223.2	2261.4	2266.8	2305.3	2608.4	2178.9
52.5°	2104.4	2108.1	2163.0	2221.3	2325.0	2445.0	2534.5	2542.0	2550.1	2824.5	2404.6
55°	2323.7	2323.2	2359.5	2393.8	2512.4	2686.9	2880.9	2885.6	2827.5	3029.7	2577.0
57.5°	2460.7	2473.9	2529.1	2573.1	2738.8	2962.5	3231.8	3249.0	3118.8	3181.6	2747.6
60°	2417.1	2423.4	2545.7	2708.9	3020.8	3354.3	3586.9	3591.3	3337.9	3333.3	2963.3
62.5°	2059.3	2062.7	2254.8	2591.3	3163.7	3862.6	4015.2	3943.4	3589.8	3543.8	3221.3
65°	1411.4	1433.7	1594.3	2010.1	2901.3	4181.3	4678.3	4559.5	3973.8	3847.1	3454.6
67.5°	831.1	826.6	905.9	1212.2	2130.8	3969.6	5517.1	5399.0	4497.4	4050.3	3386.2
70°	567.8	564.6	595.0	733.9	1202.9	3079.4	5781.0	6019.4	4959.8	3913.5	2914.3
72.5°	405.3	407.0	451.9	570.2	755.2	1794.2	4971.4	5535.6	4815.0	3411.7	2215.1
75°	275.2	279.8	344.0	467.8	662.1	912.7	3527.9	4208.1	3920.9	2479.6	1273.2
77.5°	148.0	153.1	228.9	376.9	598.6	634.2	2269.3	2896.1	2462.9	1114.7	369.0
80°	61.8	64.6	107.1	274.0	517.3	557.0	1335.2	1756.2	1049.5	219.8	82.3
82.5°	26.7	28.2	44.6	163.5	386.7	470.2	707.0	844.9	318.0	48.3	41.5
85°	5.1	5.4	18.4	86.5	246.8	265.4	458.2	449.2	142.9	20.9	30.2
87.5°	0.0	0.0	4.4	27.2	72.6	144.6	279.6	276.2	48.5	10.1	11.3
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°	1740.8	1740.8	1740.8	1740.8	1740.8	1740.8	1740.8	1740.8	1740.8	1740.8	1740.8
2.5°	1727.0	1710.1	1674.5	1630.8	1597.1	1560.2	1530.7	1493.6	1477.3	1478.1	1469.2
5°	1688.3	1653.5	1574.9	1475.7	1399.2	1320.3	1252.4	1184.7	1144.8	1131.8	1119.6
7.5°	1632.9	1577.8	1452.4	1299.4	1170.0	1043.6	933.6	836.8	775.5	745.6	734.6
10°	1570.5	1493.0	1311.4	1110.0	925.3	754.3	611.7	487.7	438.1	404.6	396.0
12.5°	1515.5	1410.6	1173.7	915.7	696.4	490.1	354.1	276.9	243.3	230.1	227.9
15°	1463.8	1333.8	1041.2	739.7	482.3	301.6	225.2	199.0	191.2	188.9	188.9
17.5°	1415.1	1260.5	911.5	566.6	319.1	211.5	186.5	180.6	178.1	177.9	178.1
20°	1364.2	1187.3	784.1	415.1	222.7	179.1	172.2	169.1	168.3	168.3	168.3
22.5°	1315.3	1113.9	660.1	296.5	178.7	163.5	160.0	157.8	157.1	156.8	156.3
25°	1268.6	1044.4	539.1	209.5	156.8	149.7	146.8	143.8	141.6	140.4	139.6
27.5°	1230.1	982.3	426.4	168.1	141.6	135.5	131.8	127.4	122.0	119.6	118.6
30°	1199.5	925.8	328.6	141.9	127.4	121.3	115.7	108.1	100.2	96.0	95.9
32.5°	1175.4	870.2	249.5	125.5	114.7	107.1	99.0	89.4	80.4	75.7	75.5
35°	1163.7	821.2	190.6	113.5	103.4	93.8	83.8	73.3	64.5	60.0	59.5
37.5°	1171.5	779.7	148.8	103.4	93.8	82.8	71.1	60.0	52.2	48.3	48.1
40°	1200.2	753.2	120.8	94.8	85.8	72.3	59.5	49.3	42.7	39.5	39.2
42.5°	1261.2	743.5	103.1	87.8	77.9	62.5	49.5	40.7	34.6	32.3	31.9
45°	1363.1	757.9	91.2	80.9	69.9	53.2	40.9	33.3	27.9	26.2	26.0
47.5°	1498.9	795.9	82.5	74.2	62.5	44.8	34.1	26.9	22.8	21.1	20.9
50°	1673.9	856.2	75.5	67.6	55.6	38.0	28.2	21.3	17.6	16.4	16.4
52.5°	1864.2	928.0	69.1	61.5	48.7	31.6	22.8	16.4	14.0	12.5	12.5
55°	2021.6	990.7	62.2	56.8	40.4	26.2	17.4	12.5	10.2	9.6	9.6
57.5°	2178.6	1057.6	54.4	48.7	32.3	21.3	13.2	9.3	7.6	7.1	7.1
60°	2382.2	1139.5	46.8	39.7	25.5	16.2	9.8	6.6	5.7	5.4	5.4
62.5°	2606.2	1187.4	40.0	31.9	19.8	12.0	7.1	4.4	4.2	4.2	3.9
65°	2743.2	1119.6	33.5	25.5	15.5	9.0	4.7	3.2	3.6	3.4	3.0
67.5°	2568.5	876.5	27.5	19.8	12.0	6.9	3.0	2.2	3.9	3.2	2.4
70°	2126.7	613.6	21.3	14.0	9.6	5.9	2.0	1.5	4.2	3.2	2.0
72.5°	1591.5	410.7	17.0	9.3	7.1	5.1	1.7	0.7	3.6	2.7	1.7
75°	869.6	165.4	13.5	5.9	4.4	3.6	1.2	0.5	2.4	2.0	1.2
77.5°	228.9	43.6	9.8	3.9	2.4	1.5	0.7	0.3	1.2	1.0	0.5
80°	58.3	17.0	6.3	2.7	1.7	0.7	0.0	0.0	0.3	0.0	0.0
82.5°	31.1	7.1	3.9	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	23.6	4.7	2.2	1.2	0.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.0	1.5	0.7	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)