

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: P650766

Luminaire Tested: **GALN-SA2C-840-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P650766
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2C-840-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9309 lumens
Efficiency: N/A
Efficacy: 86.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

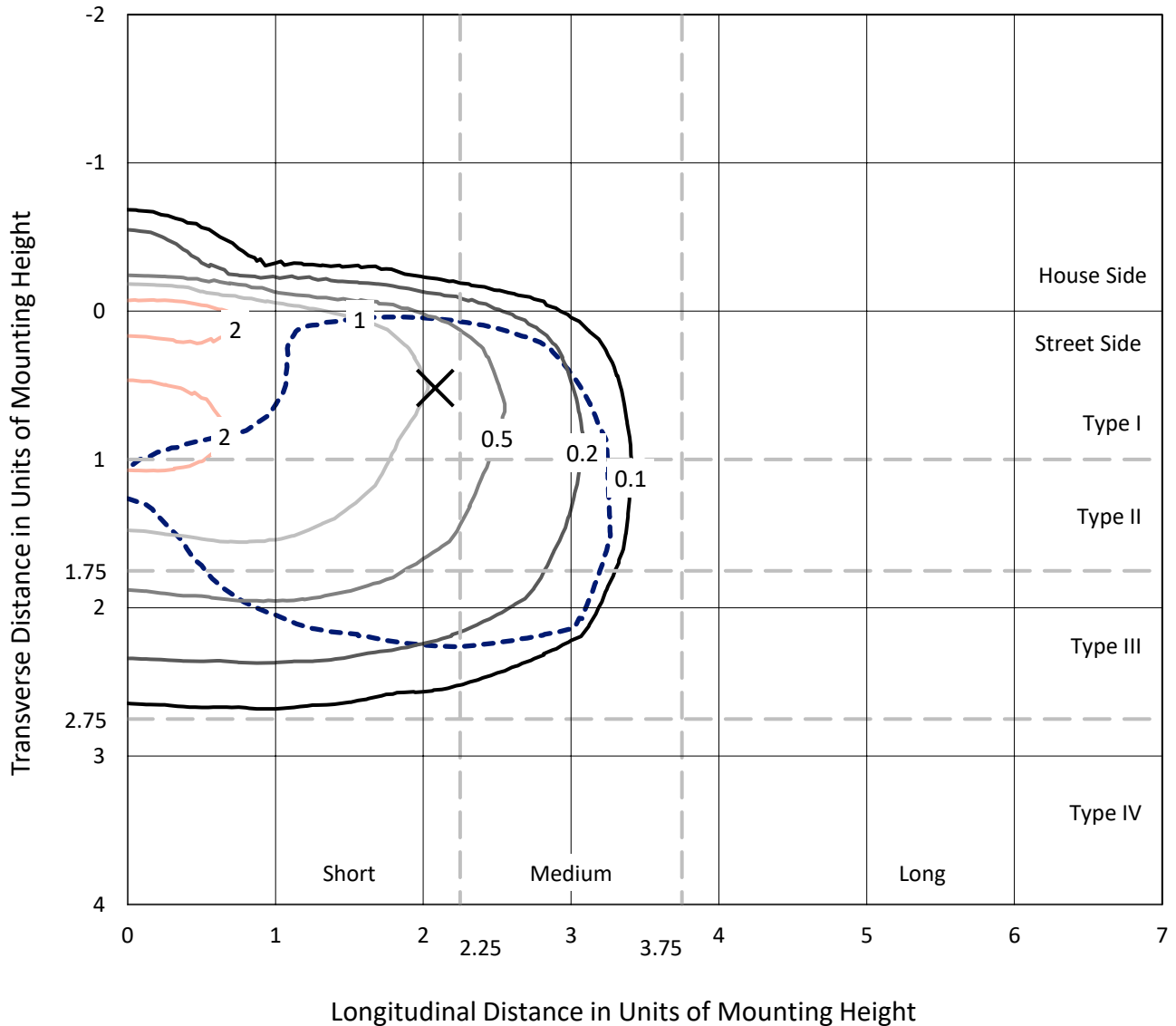
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

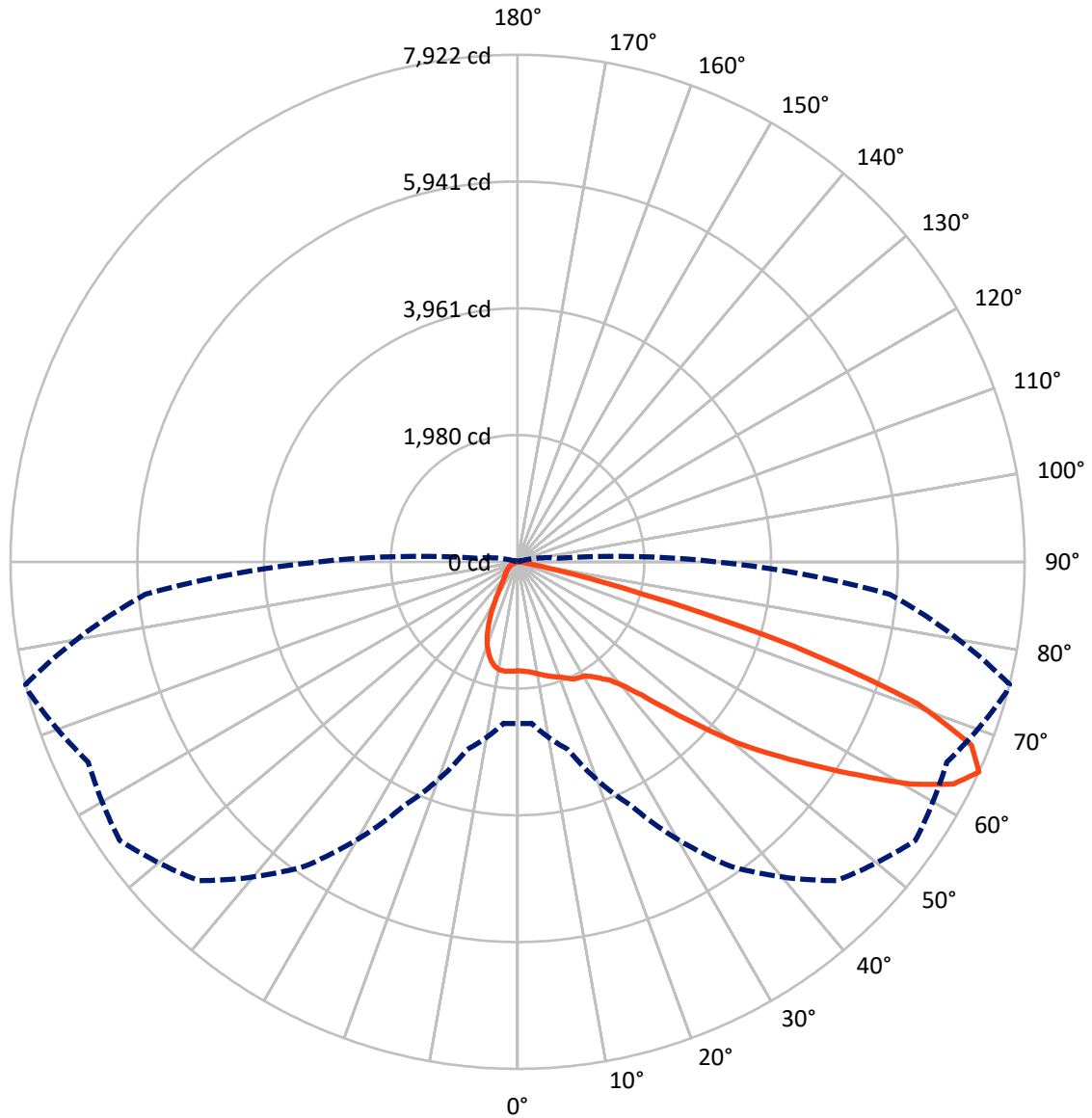
× Max cd
 - - - 1/2 Max cd



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 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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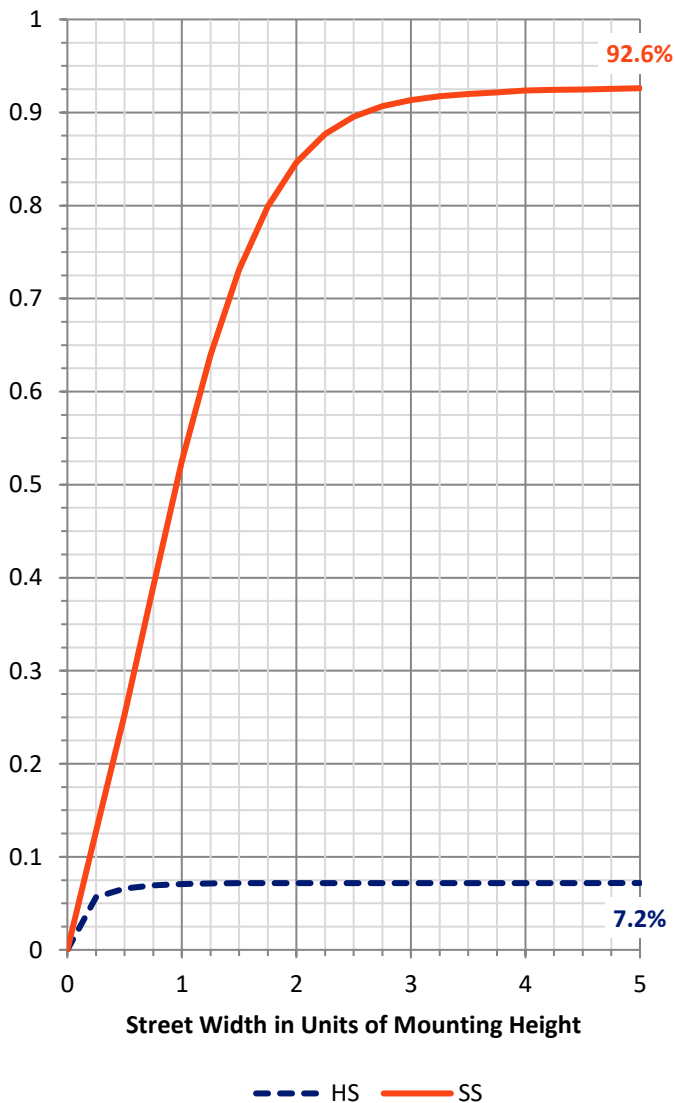
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	672.3	0.0	672.3
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	8636.7	0.0	8636.7
	% Fixture	92.8	0.0	92.8
Total	Lumens	9309.0	0.0	9309.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.3	1.5
10°-20°	312.3	3.4
20°-30°	503.3	5.4
30°-40°	875.1	9.4
40°-50°	1446.1	15.5
50°-60°	2234.0	24.0
60°-70°	2728.0	29.3
70°-80°	1035.3	11.1
80°-90°	34.6	0.4
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°	9309.0	100.0
0°-180°	9309.0	100.0

Coefficient of Utilization

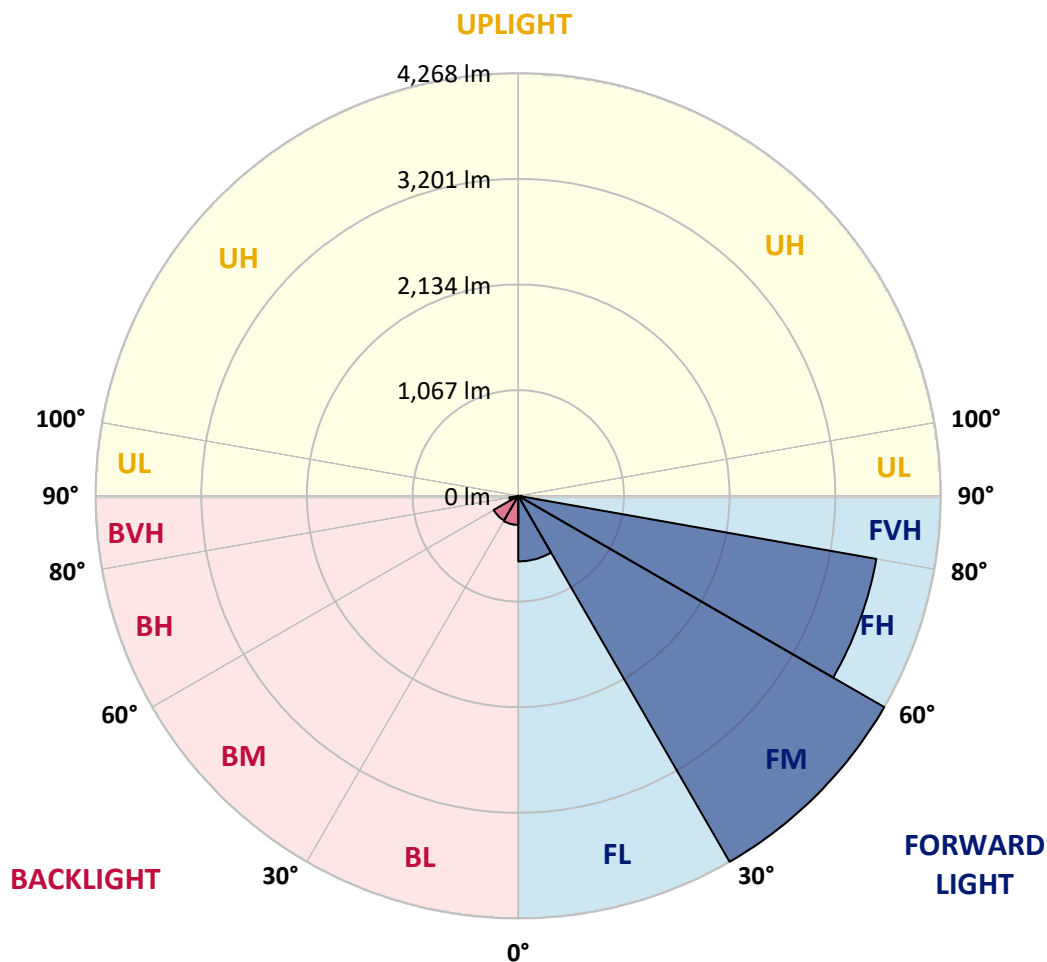


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	662.2	7.1			
FM (30°-60°)	4268.3	45.9			
FH (60°-80°)	3672.1	39.4			G2/5000
FVH (80°-90°)	34.1	0.4			G1/100
BL (0°-30°)	293.7	3.2	B1/500		
BM (30°-60°)	286.9	3.1	B1/1000		
BH (60°-80°)	91.2	1.0	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°	65°	75°	76°	85°
0°	1702.9	1702.9	1702.9	1702.9	1702.9	1702.9	1702.9	1702.9	1702.9	1702.9	1702.9
2.5°	1627.3	1628.0	1632.0	1641.8	1656.9	1669.4	1679.9	1697.0	1708.8	1710.2	1714.1
5°	1515.0	1507.1	1515.0	1540.5	1563.6	1598.4	1641.1	1683.9	1721.9	1724.6	1743.0
7.5°	1388.7	1395.3	1407.8	1434.1	1477.5	1530.7	1592.5	1668.7	1741.0	1747.6	1783.8
10°	1260.6	1275.0	1295.4	1335.5	1396.0	1465.0	1549.1	1658.2	1771.2	1780.5	1842.9
12.5°	1142.3	1148.9	1173.9	1227.7	1302.6	1399.9	1516.2	1652.3	1804.8	1816.0	1906.0
15°	1051.6	1060.2	1081.9	1130.5	1213.9	1338.8	1489.3	1650.4	1837.7	1853.4	1969.1
17.5°	1034.5	1039.7	1049.0	1081.9	1154.8	1290.2	1465.0	1649.7	1869.2	1888.3	2027.6
20°	1104.8	1100.2	1091.0	1087.7	1127.9	1252.7	1447.3	1654.9	1899.4	1921.1	2089.4
22.5°	1280.9	1286.9	1233.0	1169.2	1156.1	1246.8	1444.6	1679.9	1947.4	1973.1	2158.4
25°	1654.9	1609.6	1525.5	1373.0	1258.0	1282.9	1474.2	1739.1	2003.3	2031.5	2220.8
27.5°	2068.4	2054.6	1923.8	1672.7	1458.5	1359.1	1526.8	1784.4	2021.7	2050.6	2256.3
30°	2474.6	2491.0	2341.1	2063.7	1749.6	1500.5	1576.0	1801.5	2038.1	2068.4	2301.6
32.5°	2851.2	2870.8	2739.4	2464.6	2092.7	1745.0	1660.9	1867.9	2107.1	2138.0	2377.3
35°	3147.5	3150.1	3050.9	2832.1	2467.3	2042.0	1844.2	1984.3	2200.5	2236.6	2457.4
37.5°	3419.7	3415.7	3299.3	3110.8	2779.5	2337.1	2074.9	2118.3	2306.9	2344.4	2573.1
40°	3621.4	3624.0	3586.6	3409.2	3070.7	2609.9	2257.7	2243.9	2485.7	2544.2	2741.3
42.5°	3756.2	3780.5	3798.9	3708.8	3436.7	2945.8	2538.3	2512.7	2795.9	2844.5	2979.3
45°	3865.2	3908.6	4000.6	3996.0	3788.4	3357.9	2923.4	2870.8	3235.6	3287.6	3282.3
47.5°	3944.8	3988.8	4141.3	4233.3	4119.0	3757.5	3407.8	3362.5	3760.8	3817.3	3616.8
50°	3985.5	4038.1	4232.7	4410.8	4377.2	4142.6	3959.9	3962.5	4395.0	4449.6	4004.6
52.5°	3890.2	3958.6	4281.3	4602.0	4667.1	4511.3	4477.1	4563.9	4959.5	5006.2	4354.9
55°	3585.9	3672.1	4214.9	4765.0	5002.9	4946.4	5064.8	5196.8	5576.7	5606.9	4714.4
57.5°	3393.4	3484.7	4019.1	4903.7	5406.5	5493.2	5680.5	5777.2	6213.6	6290.5	5127.2
60°	3231.0	3302.7	3858.0	4933.3	5816.6	6162.3	6344.3	6444.2	6999.6	7049.6	5581.3
62.5°	2960.9	3043.1	3585.9	4726.9	6023.0	6698.0	7075.2	7030.5	7607.6	7642.4	5860.0
65°	2526.4	2533.7	3033.8	4208.4	5810.0	7045.6	7588.5	7401.2	7898.1	7921.8	5838.3
67.5°	1885.6	1955.3	2333.9	3307.9	4907.7	6748.6	7754.8	7411.1	7714.7	7649.0	5374.9
70°	1214.6	1267.8	1582.0	2293.7	3538.6	5631.9	7203.4	6903.0	6770.9	6625.0	4399.6
72.5°	560.6	629.0	939.8	1310.5	2098.5	4011.8	5847.5	5608.3	4873.4	4513.3	2796.6
75°	244.5	261.6	464.0	691.4	983.9	2121.6	3855.4	3481.4	2201.1	2010.5	1119.3
77.5°	149.2	160.4	243.2	370.7	386.4	808.4	2076.8	1518.9	680.3	600.1	303.7
80°	101.3	113.7	176.8	193.9	132.1	225.5	779.5	405.5	137.3	131.4	65.1
82.5°	49.3	62.4	130.8	108.4	57.2	72.3	226.7	86.8	40.1	37.4	23.0
85°	7.2	12.4	73.6	71.0	25.7	17.1	40.1	21.7	13.8	13.1	10.5
87.5°	0.0	0.0	25.0	11.2	2.6	2.6	4.6	4.6	5.3	4.6	5.3
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°	1702.9	1702.9	1702.9	1702.9	1702.9	1702.9	1702.9	1702.9	1702.9	1702.9	1702.9
2.5°	1716.1	1719.3	1706.9	1689.1	1670.1	1651.0	1624.1	1599.8	1585.3	1593.8	1572.8
5°	1746.9	1744.3	1711.4	1657.5	1586.0	1499.8	1414.4	1341.4	1317.8	1282.3	1278.3
7.5°	1789.6	1782.4	1712.8	1589.2	1427.5	1265.9	1108.1	1003.6	943.8	893.2	894.5
10°	1849.4	1828.4	1697.6	1469.0	1202.7	958.9	757.8	619.8	559.9	540.9	525.8
12.5°	1911.3	1870.6	1655.6	1306.6	936.5	655.3	460.7	376.6	339.8	328.0	326.6
15°	1966.5	1902.1	1582.0	1111.4	680.9	418.6	314.2	286.5	282.0	282.6	282.0
17.5°	2021.0	1927.1	1480.1	904.3	462.7	300.3	270.1	263.6	265.5	268.2	267.5
20°	2066.3	1932.3	1350.0	690.1	327.3	263.6	253.7	252.4	254.3	256.3	256.3
22.5°	2115.7	1936.2	1195.6	477.9	267.5	245.2	239.9	239.9	242.5	245.2	245.8
25°	2152.5	1914.5	1010.9	343.0	236.0	227.4	224.8	225.5	228.1	229.3	228.8
27.5°	2158.4	1853.4	815.0	262.9	214.3	205.7	203.1	205.7	202.4	204.4	203.1
30°	2163.6	1775.9	616.5	221.5	194.5	181.4	177.5	173.5	170.9	167.6	166.9
32.5°	2180.0	1684.5	450.2	199.1	176.1	161.6	152.5	141.3	132.8	130.1	129.5
35°	2187.3	1574.8	330.6	181.4	159.7	143.9	127.5	111.8	99.2	94.6	97.9
37.5°	2214.9	1468.3	256.3	168.3	145.2	125.6	104.5	84.8	72.9	70.3	71.7
40°	2271.5	1352.6	215.0	157.1	132.8	108.4	82.8	63.7	55.8	53.2	52.6
42.5°	2362.1	1237.6	191.2	146.6	120.3	91.3	65.1	50.0	43.4	41.4	41.4
45°	2472.5	1127.2	174.8	135.4	107.1	73.6	51.3	40.1	36.2	34.8	34.8
47.5°	2617.8	1030.6	161.1	124.2	92.7	58.5	41.4	34.8	32.2	32.9	33.6
50°	2765.0	958.9	145.9	111.8	76.3	47.9	35.5	30.9	30.2	30.9	30.9
52.5°	2876.1	916.9	125.6	94.6	59.8	40.1	31.5	28.9	28.3	26.9	26.9
55°	3025.9	907.7	99.9	76.9	47.3	33.6	28.3	26.3	24.3	23.0	22.4
57.5°	3218.5	918.2	76.9	59.8	36.8	27.6	25.0	21.7	19.1	16.4	16.4
60°	3338.2	894.5	59.8	46.0	26.9	22.4	19.1	15.8	12.4	10.5	9.8
62.5°	3300.0	794.6	47.3	34.1	19.1	16.4	12.4	10.5	7.2	5.3	4.6
65°	3103.5	641.4	38.1	23.6	13.8	9.8	6.6	6.6	3.3	0.7	0.0
67.5°	2716.4	475.2	30.2	15.8	7.9	4.6	3.3	1.9	0.0	0.0	0.0
70°	2211.0	343.0	23.6	9.8	4.6	3.3	1.3	0.7	0.0	0.0	0.0
72.5°	1403.9	196.5	18.4	5.9	3.3	1.3	0.0	0.0	0.0	0.0	0.0
75°	542.9	76.9	12.4	4.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	153.8	36.2	7.2	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	40.1	15.8	4.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	19.1	6.6	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	11.2	2.6	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.3	0.7	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)