

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: P651981

Luminaire Tested: **GALN-SA6A-840-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651981
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6A-840-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16497.9 lumens
Efficiency: N/A
Efficacy: 90.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G3

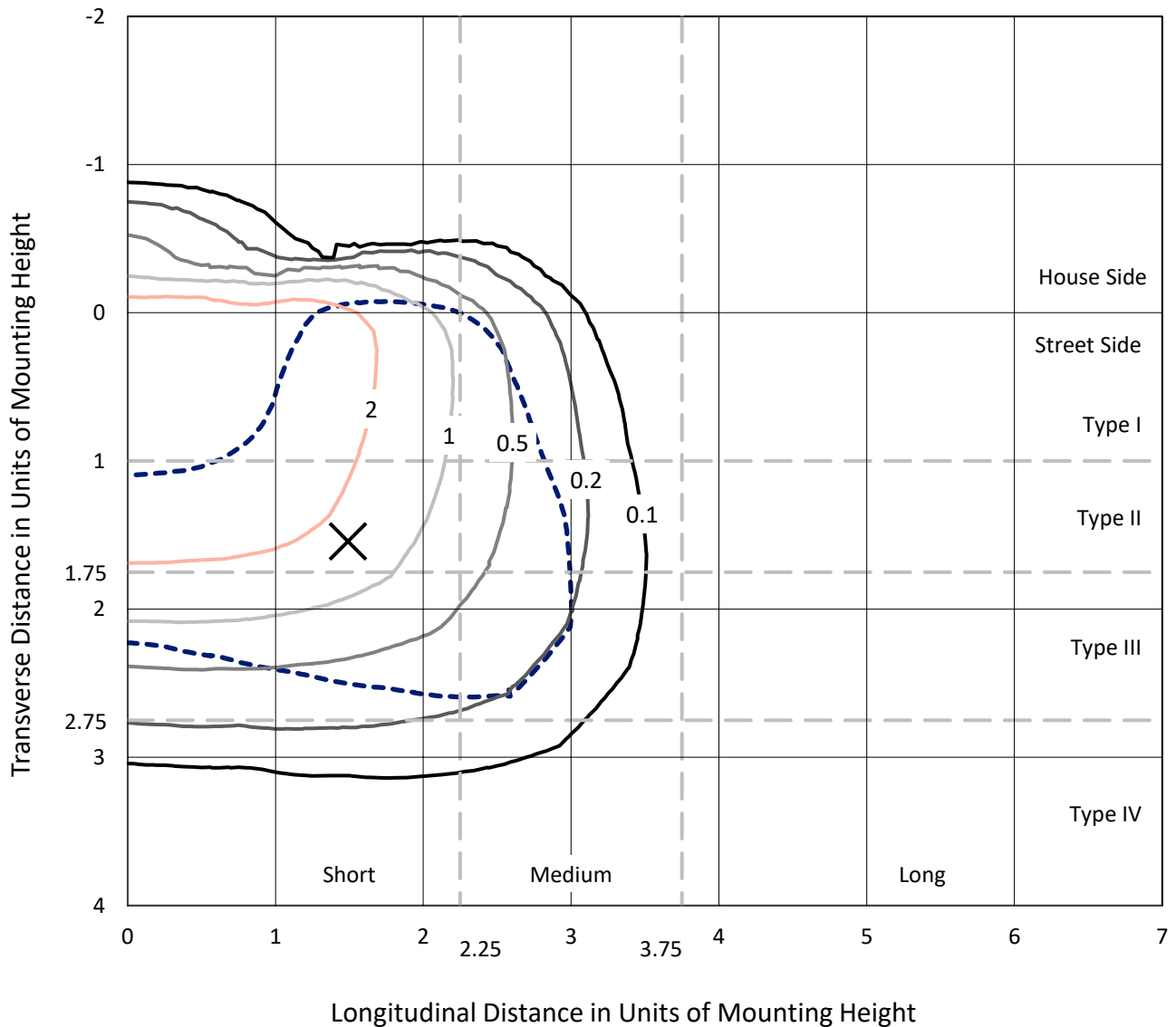
Input Watts (W): 182
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

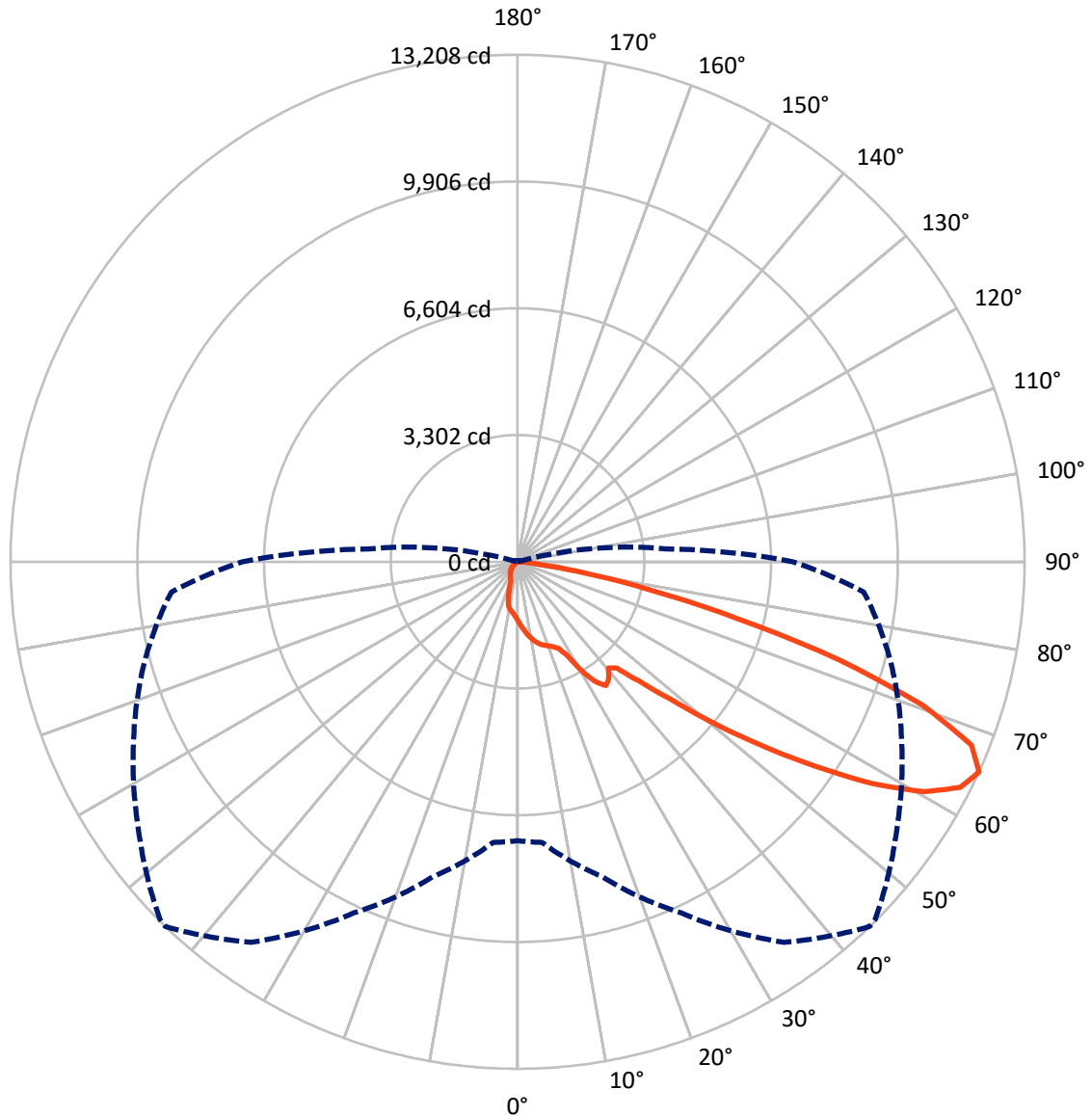
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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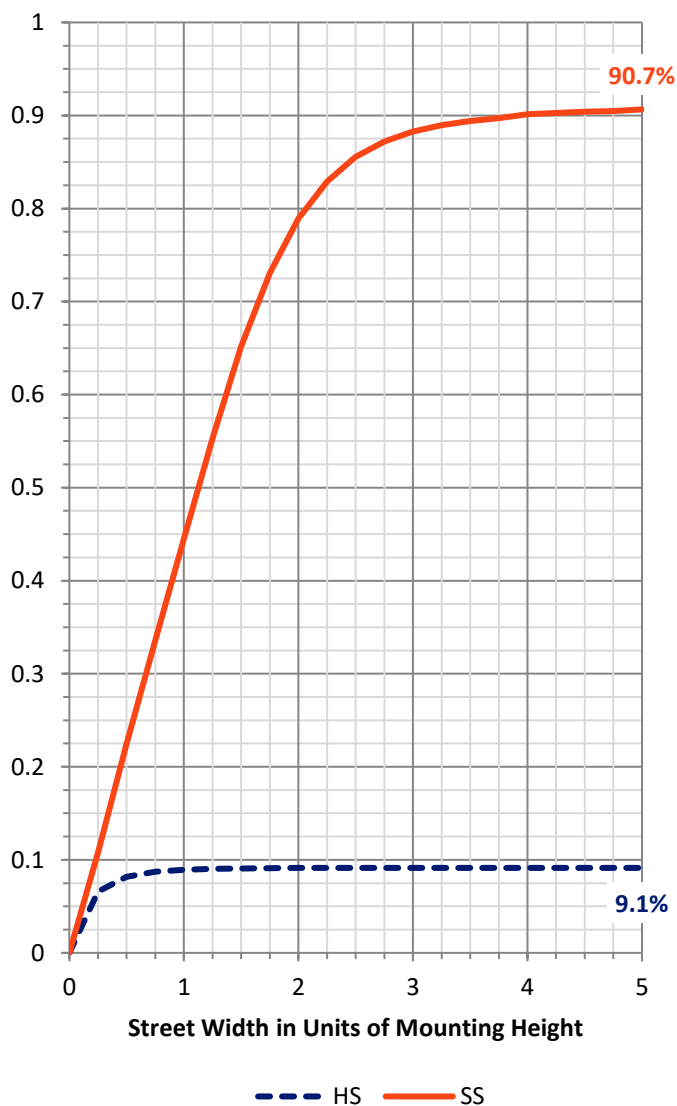
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1520.0	0.0	1520.0
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	14977.9	0.0	14977.9
	% Fixture	90.8	0.0	90.8
Total	Lumens	16497.9	0.0	16497.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.7	0.9
10°-20°	459.6	2.8
20°-30°	779.4	4.7
30°-40°	1295.8	7.9
40°-50°	2262.5	13.7
50°-60°	4420.2	26.8
60°-70°	5128.5	31.1
70°-80°	1867.5	11.3
80°-90°	131.6	0.8
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°	16497.9	100.0
0°-180°	16497.9	100.0

Coefficient of Utilization

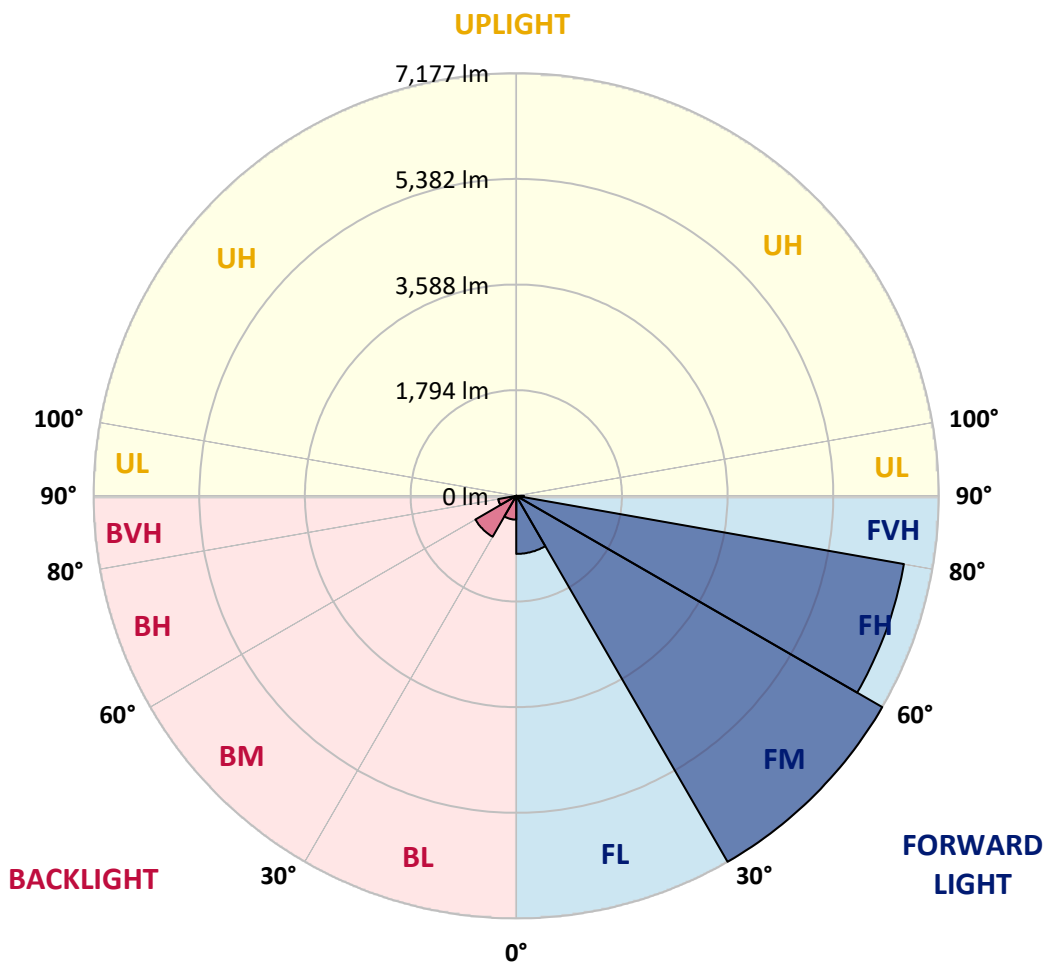


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	986.7	6.0			
FM (30°-60°)	7176.6	43.5			
FH (60°-80°)	6684.7	40.5			G3/7500
FVH (80°-90°)	129.8	0.8			G2/225
BL (0°-30°)	405.0	2.5	B1/500		
BM (30°-60°)	802.0	4.9	B1/1000		
BH (60°-80°)	311.3	1.9	B1/500		G1/500
BVH (80°-90°)	1.8	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-G3
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1535.5	1535.5	1535.5	1535.5	1535.5	1535.5	1535.5	1535.5	1535.5	1535.5	1535.5
2.5°	1728.3	1720.8	1717.0	1696.8	1681.7	1662.8	1662.8	1638.9	1611.1	1580.8	1553.1
5°	1921.2	1908.6	1892.2	1874.6	1839.3	1788.9	1788.9	1738.4	1680.4	1628.8	1572.0
7.5°	2106.5	2095.2	2067.4	2033.5	1975.4	1922.4	1918.7	1845.6	1776.3	1698.1	1617.4
10°	2269.2	2260.4	2236.4	2170.8	2110.3	2040.9	2039.7	1957.8	1877.1	1781.3	1681.7
12.5°	2382.6	2383.9	2352.4	2289.3	2211.2	2145.6	2140.6	2059.9	1975.4	1872.1	1749.8
15°	2463.3	2463.3	2430.5	2359.9	2289.3	2231.3	2226.3	2155.7	2068.7	1956.5	1824.1
17.5°	2486.0	2493.6	2458.2	2395.3	2338.5	2288.0	2286.8	2227.6	2158.3	2049.8	1899.8
20°	2477.2	2484.7	2457.0	2407.9	2368.8	2339.7	2336.0	2312.0	2247.7	2145.6	1980.5
22.5°	2458.2	2465.8	2445.6	2416.6	2397.8	2406.6	2400.3	2420.4	2386.4	2262.9	2076.3
25°	2462.0	2469.6	2454.5	2438.1	2454.5	2508.7	2525.1	2612.1	2581.8	2411.6	2179.6
27.5°	2580.5	2595.7	2574.2	2581.8	2639.8	2765.9	2797.3	2947.4	2813.7	2600.7	2341.0
30°	2844.0	2833.9	2793.5	2830.1	3031.8	3299.1	3290.2	3266.4	3057.0	2818.8	2532.7
32.5°	3083.5	3074.7	3072.2	3229.8	3595.4	3725.2	3718.9	3487.0	3275.2	3068.4	2721.7
35°	3180.6	3146.6	3139.0	3521.0	4132.4	3960.9	3921.8	3577.7	3539.9	3340.7	2914.6
37.5°	3473.1	3449.1	3331.9	3568.9	3918.1	3861.4	3831.1	3734.0	3822.3	3581.5	3132.7
40°	4075.7	4008.9	3902.9	3671.0	3614.3	3638.3	3668.4	3934.5	4156.3	3910.5	3423.9
42.5°	4824.5	4809.3	4612.7	4180.3	3755.5	3788.2	3827.3	4353.0	4636.6	4405.9	3899.1
45°	5723.3	5744.8	5461.1	4950.5	4393.3	4421.1	4477.8	4970.7	5287.1	5176.2	4646.7
47.5°	6540.2	6523.8	6428.0	5897.3	5382.9	5321.2	5413.2	5763.6	6187.2	6204.9	5574.6
50°	7362.1	7449.2	7306.7	7098.7	6716.7	6586.9	6552.8	6724.3	7369.7	7285.2	6689.0
52.5°	8543.4	8588.8	8321.5	8268.5	8355.5	7934.5	7900.4	7942.1	8519.4	8229.4	7523.5
55°	9285.9	9259.4	9159.8	9573.4	9917.5	9391.8	9348.9	9181.3	9473.7	8896.4	8326.6
57.5°	9520.4	9558.2	9790.2	10537.7	11352.1	10905.8	10827.6	10351.1	10162.1	9517.8	9065.3
60°	9415.8	9485.1	9985.5	11097.4	12227.0	12160.2	12093.3	11292.9	10656.2	10037.3	9583.4
62.5°	8670.7	8767.8	9568.3	10997.8	12523.2	12940.5	12857.3	11880.3	10985.2	10289.4	9674.2
65°	7266.3	7338.2	8487.9	10093.9	12102.2	13207.7	13177.5	12064.3	11036.9	10058.7	9052.7
67.5°	5180.0	5424.5	6489.7	8506.8	10856.6	12751.4	12803.0	11843.7	10551.6	9061.5	7497.0
70°	3256.3	3422.6	4186.6	6090.2	8703.5	11186.9	11357.1	10833.9	9157.3	7063.4	5018.6
72.5°	1553.1	1676.6	2221.2	3855.1	6143.1	8801.8	8936.7	8893.8	7081.1	4450.1	2589.4
75°	692.1	738.7	1060.2	1967.9	3966.0	5916.2	6265.4	6323.4	4424.8	2177.1	1007.3
77.5°	353.0	354.2	496.7	953.0	1980.5	3529.8	3599.1	3802.1	2399.0	959.3	350.4
80°	187.8	200.4	263.5	450.0	1027.4	1738.4	1729.6	1901.1	1063.9	470.2	117.2
82.5°	84.4	93.3	148.8	235.7	501.7	659.3	711.0	777.8	456.3	300.1	51.7
85°	25.2	30.3	73.1	118.5	181.6	190.3	213.0	274.8	258.4	213.0	26.5
87.5°	3.8	3.8	30.3	32.8	26.5	34.1	35.3	39.1	83.2	78.1	13.9
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°	1535.5	1535.5	1535.5	1535.5	1535.5	1535.5	1535.5	1535.5	1535.5	1535.5	1535.5
2.5°	1538.0	1529.2	1497.7	1471.2	1448.5	1434.6	1418.3	1408.2	1403.1	1399.3	1400.6
5°	1544.3	1522.9	1468.6	1425.7	1393.0	1357.7	1333.7	1319.9	1313.6	1303.5	1303.5
7.5°	1579.6	1545.5	1469.9	1404.4	1347.6	1299.7	1254.4	1238.0	1226.6	1224.1	1221.6
10°	1630.0	1587.1	1483.8	1393.0	1312.3	1246.8	1182.4	1125.8	1081.6	1055.1	1051.3
12.5°	1693.0	1631.3	1505.2	1385.5	1282.1	1166.1	995.9	881.2	804.2	780.4	784.1
15°	1751.0	1684.2	1526.7	1379.2	1226.6	966.9	774.1	642.9	603.8	600.1	601.3
17.5°	1820.3	1741.0	1551.8	1370.3	1074.0	738.7	574.8	539.6	547.2	559.7	558.4
20°	1892.2	1801.4	1582.1	1317.3	857.2	556.0	508.0	511.8	523.2	534.5	537.1
22.5°	1969.1	1870.8	1617.4	1190.0	654.3	484.1	481.6	486.6	498.0	510.6	513.1
25°	2075.0	1957.8	1643.9	1023.7	495.4	447.5	452.5	461.4	471.5	485.3	487.9
27.5°	2211.2	2075.0	1657.8	806.8	428.7	414.8	416.0	428.7	441.2	453.8	453.8
30°	2387.7	2214.9	1630.0	610.1	395.9	383.2	378.2	385.8	402.2	414.8	416.0
32.5°	2545.2	2347.3	1556.9	466.4	371.9	354.2	341.6	342.9	349.2	356.8	358.0
35°	2702.8	2475.9	1432.1	392.1	346.7	326.5	307.6	297.5	292.5	288.7	292.5
37.5°	2904.5	2636.0	1265.7	356.8	325.2	300.1	273.6	252.1	234.5	223.1	225.6
40°	3164.2	2857.9	1069.0	334.0	305.1	274.8	239.5	211.8	181.6	171.5	166.4
42.5°	3592.8	3194.5	862.3	315.1	284.9	248.3	204.2	166.4	138.7	128.6	131.1
45°	4269.8	3619.3	664.4	295.0	264.7	219.3	171.5	131.1	108.4	103.4	105.9
47.5°	5167.4	4168.9	511.8	272.3	239.5	187.8	134.9	103.4	89.5	88.2	87.0
50°	6012.0	4680.8	427.4	247.1	209.2	156.3	110.9	87.0	78.1	76.9	76.9
52.5°	6775.9	5047.6	347.9	218.1	176.5	128.6	93.3	76.9	69.3	65.5	65.5
55°	7455.5	5287.1	282.4	182.8	138.7	102.1	80.7	69.3	60.6	55.5	54.2
57.5°	7968.6	5316.1	211.8	146.2	103.4	79.4	69.3	60.6	50.5	44.2	41.6
60°	8187.9	5065.3	156.3	110.9	76.9	63.0	55.5	49.2	37.8	31.5	30.3
62.5°	7967.3	4577.4	116.0	84.4	59.3	46.7	39.1	36.6	26.5	18.9	17.7
65°	7176.8	3872.7	92.0	64.3	44.2	34.1	25.2	24.0	16.4	8.8	7.6
67.5°	5749.7	3033.1	73.1	47.9	31.5	22.7	16.4	15.1	8.8	2.5	2.5
70°	3739.1	1938.8	59.3	35.3	20.2	15.1	10.1	7.6	5.0	1.3	0.0
72.5°	1849.4	906.4	47.9	27.8	13.9	7.6	3.8	2.5	3.8	0.0	0.0
75°	717.3	322.7	35.3	18.9	7.6	3.8	2.5	0.0	1.3	0.0	0.0
77.5°	238.3	107.1	21.4	10.1	5.0	2.5	0.0	0.0	0.0	0.0	0.0
80°	88.2	41.6	11.4	6.3	2.5	1.3	0.0	0.0	0.0	0.0	0.0
82.5°	35.3	16.4	7.6	5.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	17.7	10.1	5.0	3.8	2.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	12.6	7.6	5.0	3.8	2.5	1.3	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)