

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: P651787

Luminaire Tested: **GALN-SA3A-840-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651787
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3A-840-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9444.4 lumens
Efficiency: N/A
Efficacy: 101.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

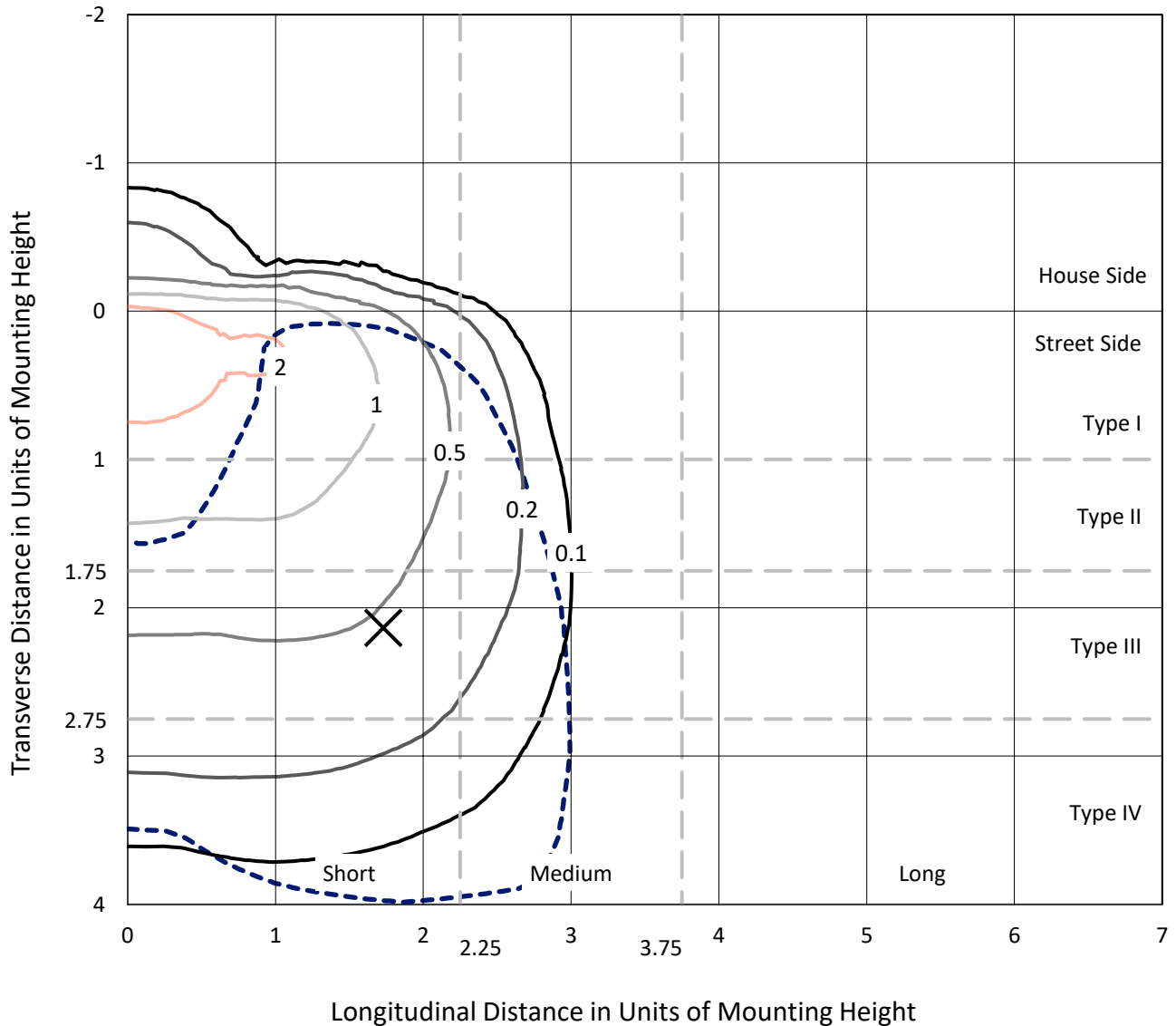
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

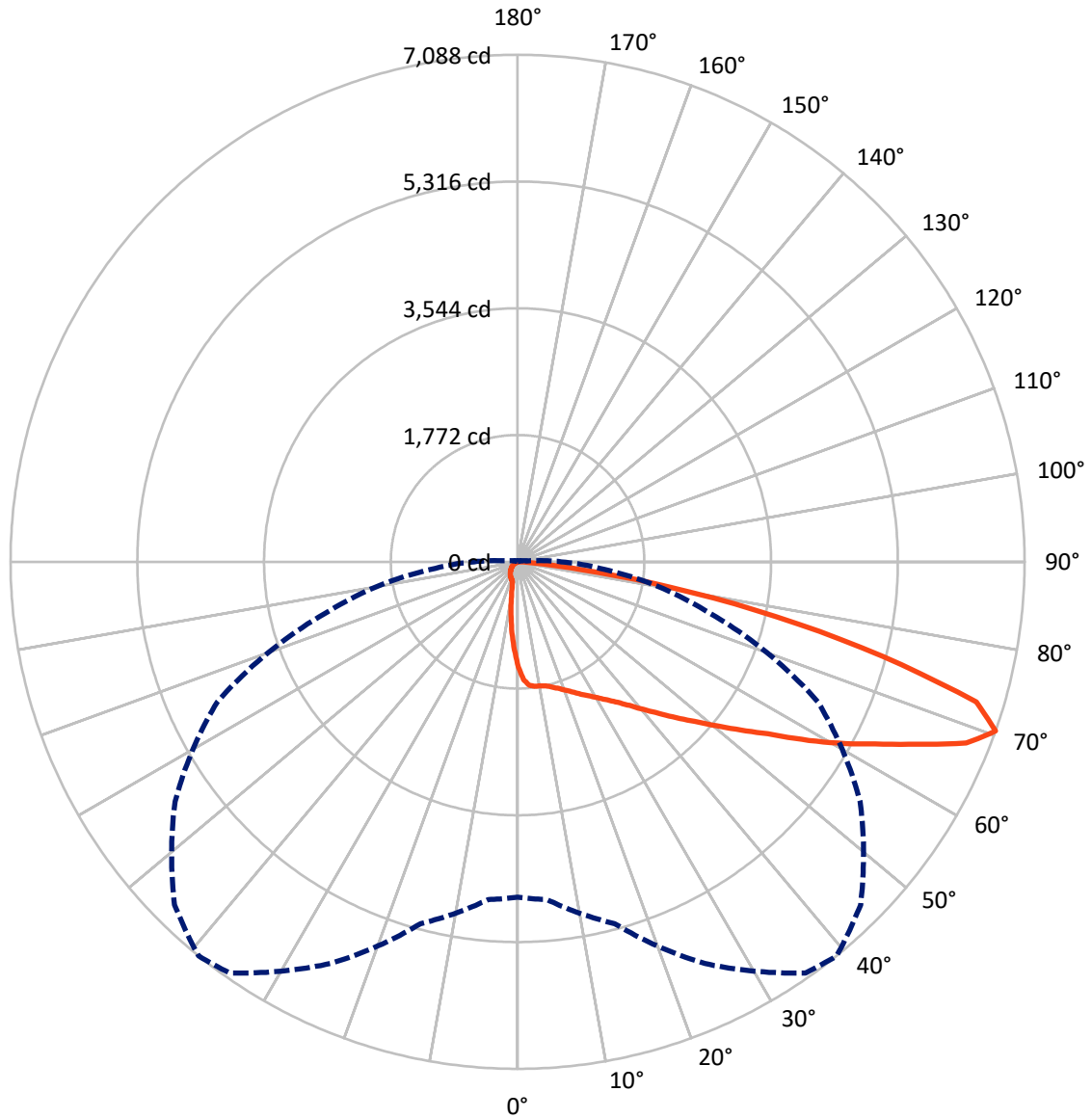
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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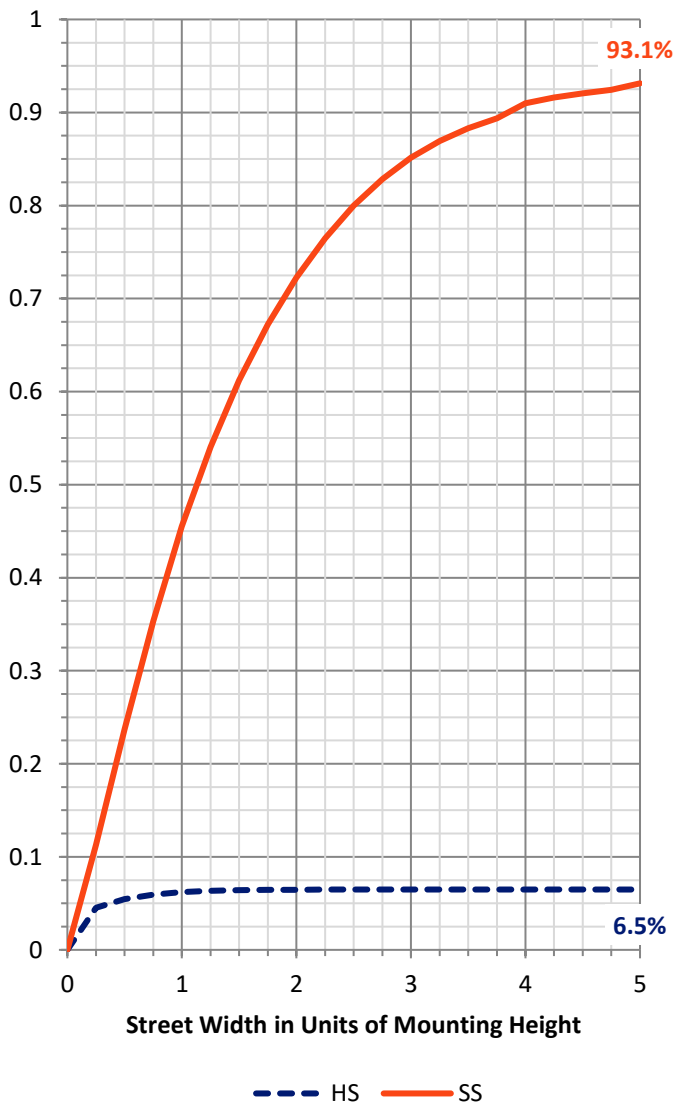
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	615.8	0.0	615.8
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	8828.6	0.0	8828.6
	% Fixture	93.5	0.0	93.5
Total	Lumens	9444.4	0.0	9444.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.7	1.3
10°-20°	326.6	3.5
20°-30°	547.2	5.8
30°-40°	848.7	9.0
40°-50°	1344.9	14.2
50°-60°	1971.4	20.9
60°-70°	2526.8	26.8
70°-80°	1587.8	16.8
80°-90°	165.4	1.8
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°	9444.4	100.0
0°-180°	9444.4	100.0

Coefficient of Utilization

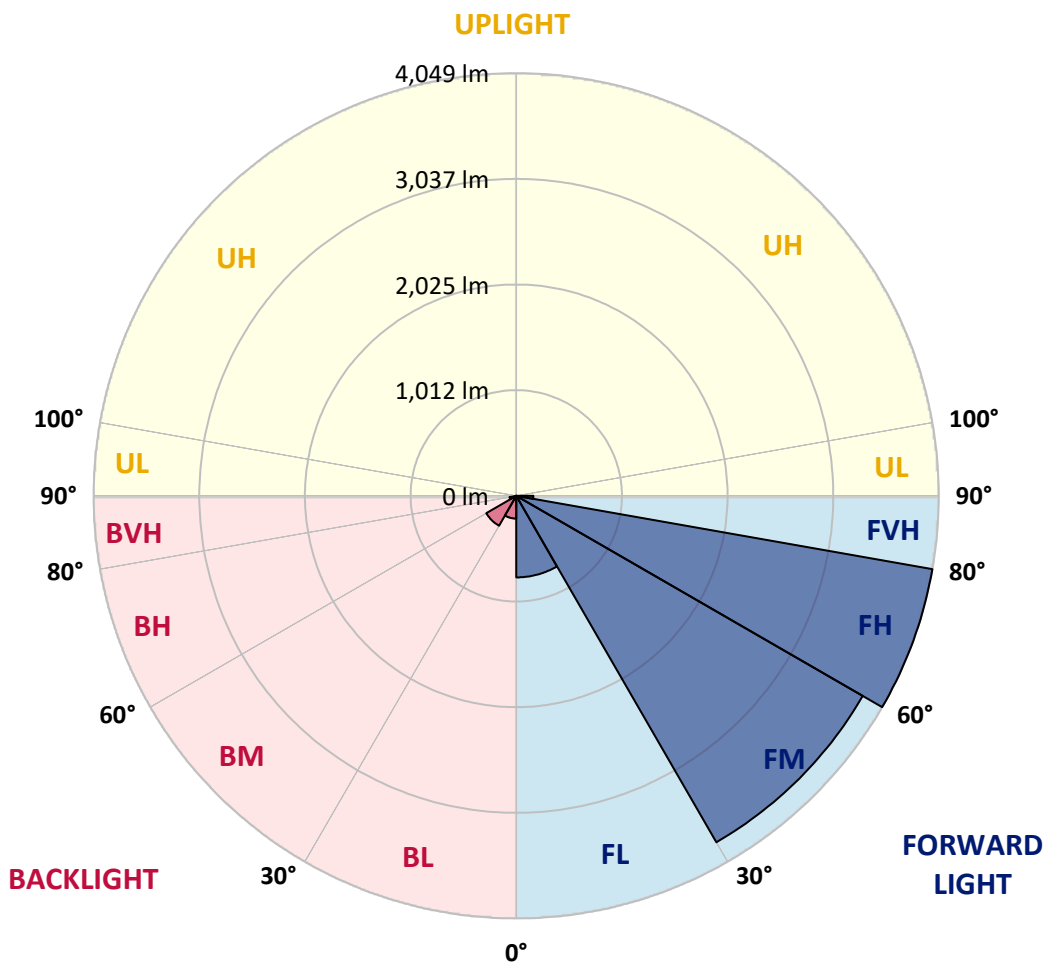


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	781.5	8.3			
FM (30°-60°)	3833.5	40.6			
FH (60°-80°)	4049.5	42.9			G2/5000
FVH (80°-90°)	164.2	1.7			G2/225
BL (0°-30°)	218.1	2.3	B1/500		
BM (30°-60°)	331.4	3.5	B1/1000		
BH (60°-80°)	65.1	0.7	B0/110		G0/110
BVH (80°-90°)	1.2	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	1473.7	1473.7	1473.7	1473.7	1473.7	1473.7	1473.7	1473.7	1473.7	1473.7	1473.7
2.5°	1702.8	1697.1	1689.4	1680.6	1655.2	1650.7	1635.5	1603.1	1564.4	1532.6	1488.9
5°	1783.3	1786.5	1780.8	1764.9	1746.6	1735.7	1716.7	1666.6	1616.5	1552.3	1480.7
7.5°	1801.8	1808.2	1801.2	1785.9	1768.1	1756.7	1741.5	1698.3	1640.0	1567.0	1468.6
10°	1799.8	1807.5	1803.0	1789.1	1774.5	1763.7	1747.2	1712.9	1665.9	1589.2	1472.4
12.5°	1796.7	1806.8	1806.2	1799.2	1787.2	1778.9	1768.8	1738.3	1694.5	1621.5	1493.4
15°	1787.8	1800.5	1811.9	1817.7	1818.2	1818.2	1805.5	1773.2	1731.3	1664.1	1520.6
17.5°	1791.6	1806.2	1834.8	1851.3	1862.7	1861.4	1848.1	1813.2	1766.9	1707.8	1549.2
20°	1815.1	1834.8	1874.8	1907.7	1919.2	1915.4	1897.6	1857.0	1804.3	1745.2	1577.1
22.5°	1872.8	1890.7	1940.8	1979.5	1987.7	1977.5	1952.2	1897.0	1849.4	1785.9	1610.8
25°	1959.2	1980.1	2026.5	2055.7	2055.7	2049.9	2014.4	1949.6	1900.2	1842.4	1654.5
27.5°	2063.9	2081.6	2127.3	2153.4	2138.2	2121.6	2086.1	2008.1	1960.5	1913.4	1707.2
30°	2169.9	2181.3	2229.5	2240.9	2225.1	2204.2	2166.1	2088.0	2046.1	2009.9	1783.3
32.5°	2270.1	2294.9	2334.9	2332.3	2310.7	2300.6	2265.7	2182.6	2159.1	2155.2	1890.0
35°	2370.4	2389.4	2425.0	2433.9	2414.8	2412.9	2387.5	2326.0	2326.6	2351.4	2056.2
37.5°	2456.7	2473.9	2515.8	2535.4	2539.2	2548.7	2538.6	2497.9	2555.7	2623.7	2276.5
40°	2529.1	2553.2	2606.5	2640.7	2680.1	2715.0	2716.9	2725.8	2842.0	2958.7	2564.0
42.5°	2585.6	2619.2	2696.6	2760.1	2850.2	2894.6	2930.2	2979.1	3174.5	3349.0	2902.9
45°	2659.2	2697.9	2794.4	2894.0	3034.9	3107.9	3157.4	3288.1	3565.4	3803.4	3250.6
47.5°	2781.0	2801.4	2899.7	3045.0	3230.4	3334.5	3430.9	3628.9	3985.0	4198.2	3540.1
50°	2937.8	2951.2	3025.4	3227.2	3467.1	3604.2	3780.0	4012.9	4420.3	4525.7	3703.8
52.5°	3111.0	3115.5	3171.3	3427.7	3732.4	3905.0	4101.7	4389.3	4775.1	4759.2	3812.3
55°	3312.2	3305.9	3353.5	3645.4	4046.6	4243.9	4473.0	4774.4	5082.9	4924.9	3874.6
57.5°	3542.6	3525.5	3571.8	3934.2	4448.9	4685.0	4917.9	5107.1	5321.5	5063.8	3904.3
60°	3783.7	3749.5	3804.7	4258.5	4923.0	5147.0	5340.6	5391.3	5572.9	5174.3	3853.0
62.5°	3976.1	3976.8	4079.5	4603.7	5410.4	5606.5	5709.3	5755.0	5789.3	5150.2	3582.6
65°	4276.2	4286.4	4450.8	5082.9	5974.5	6144.7	6215.2	6066.6	5798.8	4850.6	3176.5
67.5°	4586.0	4618.4	4919.2	5742.9	6626.4	6763.5	6672.7	6126.9	5539.8	4167.1	2408.5
70°	4686.9	4740.2	5235.8	6197.3	7017.3	7088.4	6781.2	5845.8	4631.1	2786.1	1212.2
72.5°	4294.7	4381.0	5053.7	6031.7	6767.9	6706.3	6067.2	4902.7	2944.2	1058.0	370.0
75°	3028.5	3066.6	4200.1	5003.6	5443.4	5268.9	4615.2	3160.6	1210.9	297.0	126.9
77.5°	1563.8	1545.3	2497.9	3319.8	3882.1	3701.2	3022.2	1636.2	458.8	123.8	78.7
80°	808.5	821.9	1080.8	1739.6	2369.8	2180.6	1611.4	758.4	244.3	68.5	60.3
82.5°	453.1	425.2	621.3	759.7	1108.1	868.8	618.1	536.9	106.6	41.3	57.1
85°	82.5	86.3	340.8	410.6	384.6	244.3	199.3	358.6	31.1	22.9	39.9
87.5°	1.3	1.3	66.0	118.1	74.8	34.3	62.8	51.4	6.3	8.9	7.0
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°	1473.7	1473.7	1473.7	1473.7	1473.7	1473.7	1473.7	1473.7	1473.7	1473.7	1473.7
2.5°	1466.7	1442.6	1397.5	1353.1	1296.6	1250.2	1219.2	1186.8	1153.8	1156.3	1163.9
5°	1441.3	1399.4	1310.5	1216.6	1126.5	1045.3	965.3	893.6	864.4	837.7	839.0
7.5°	1415.9	1356.9	1226.8	1079.5	943.1	804.8	704.4	621.9	578.2	545.1	535.6
10°	1404.5	1326.4	1150.0	947.6	754.0	602.9	474.1	406.8	354.7	338.3	342.7
12.5°	1409.5	1311.2	1080.8	828.2	597.9	420.2	330.0	295.8	284.3	282.4	281.1
15°	1419.1	1300.4	1012.9	696.2	439.2	312.3	277.4	271.0	269.7	268.4	269.1
17.5°	1431.8	1290.9	940.6	572.5	337.0	272.9	262.7	259.5	258.9	258.9	258.9
20°	1444.5	1280.1	859.9	462.0	281.1	257.7	251.3	249.4	248.8	248.8	248.2
22.5°	1459.1	1270.6	778.1	363.1	258.9	246.9	241.2	239.9	239.3	238.6	238.6
25°	1480.0	1258.5	691.1	297.0	245.0	236.7	231.0	229.8	229.1	226.6	227.2
27.5°	1507.9	1249.6	601.7	256.4	232.3	224.0	220.3	218.3	217.1	215.1	215.8
30°	1546.0	1242.0	506.5	234.2	217.7	210.7	206.9	205.6	204.4	202.4	202.4
32.5°	1612.0	1245.2	406.2	216.4	204.4	196.1	192.3	191.0	189.7	187.9	187.9
35°	1711.0	1263.6	325.0	201.2	188.5	180.2	176.4	176.4	174.5	172.0	171.4
37.5°	1872.8	1310.5	260.9	186.6	173.2	165.7	161.2	160.0	158.0	154.2	153.6
40°	2063.9	1383.5	219.6	172.0	159.3	151.7	147.8	144.1	139.0	135.1	134.6
42.5°	2303.8	1458.5	190.4	157.4	146.0	139.0	134.6	128.2	120.6	115.5	114.9
45°	2553.9	1527.0	170.7	144.1	133.3	127.6	122.4	112.4	102.9	96.5	95.9
47.5°	2740.4	1539.6	154.8	131.4	122.4	116.8	109.8	97.1	84.4	78.7	76.8
50°	2828.6	1478.1	138.3	118.7	111.7	105.4	96.5	81.8	67.9	60.9	59.6
52.5°	2859.7	1371.5	125.1	107.2	100.9	93.3	82.5	66.0	53.3	46.3	45.7
55°	2847.0	1236.9	112.9	96.5	88.2	79.3	68.5	52.6	39.4	33.6	32.4
57.5°	2780.4	1065.5	100.9	85.7	75.5	66.6	54.6	39.4	26.7	21.6	20.9
60°	2600.8	832.0	88.8	73.6	64.1	54.6	43.1	27.9	16.5	12.0	12.0
62.5°	2297.4	617.5	77.5	61.6	53.9	43.8	30.4	17.7	8.9	6.3	5.7
65°	1919.8	455.7	64.8	52.1	45.1	34.3	21.6	10.8	4.5	1.9	1.3
67.5°	1339.7	281.1	53.9	42.6	36.8	24.7	13.3	4.5	1.9	0.0	0.0
70°	608.6	133.9	41.3	32.4	27.9	17.7	7.0	2.5	1.3	0.0	0.0
72.5°	189.1	70.5	29.2	23.5	19.0	11.4	3.8	1.9	1.3	0.0	0.0
75°	87.5	45.1	18.4	12.7	10.8	5.7	2.5	1.3	0.7	0.0	0.0
77.5°	65.3	34.9	10.8	7.0	5.7	3.8	1.9	1.3	0.7	0.0	0.0
80°	57.1	17.7	6.3	4.5	3.2	2.5	1.3	0.7	0.0	0.0	0.0
82.5°	51.4	8.9	3.8	2.5	1.9	1.3	0.7	0.7	0.0	0.0	0.0
85°	27.9	5.0	2.5	1.9	1.3	0.7	0.7	0.0	0.0	0.0	0.0
87.5°	5.0	2.5	1.9	1.3	1.3	0.7	0.7	0.7	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)