

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: P451418

Luminaire Tested: **GALN-SA2B-740-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451418
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-SA2B-740-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 800mA 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: 9412 lumens
Efficiency: N/A
Efficacy: 114.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

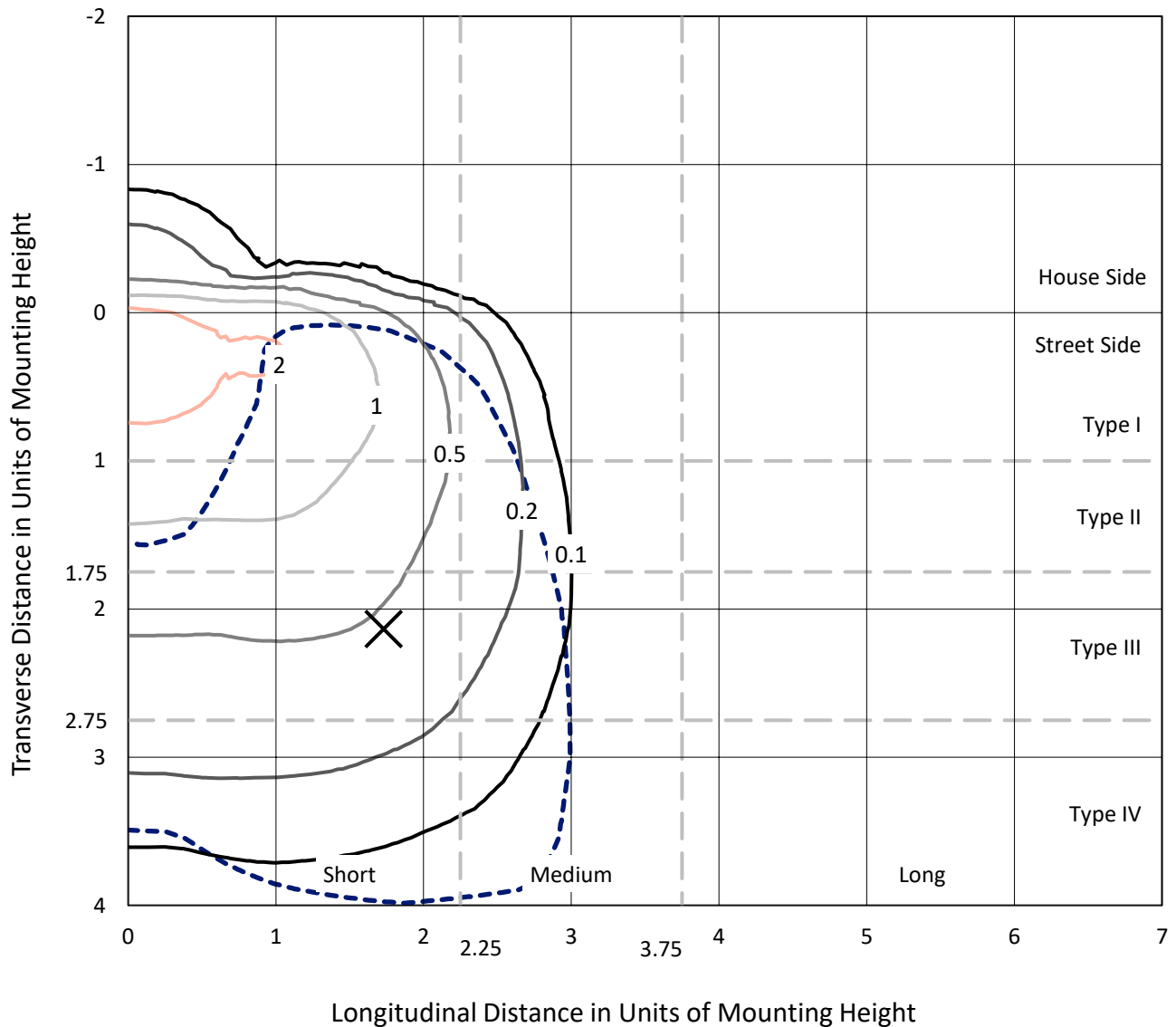
Input Watts (W): 82
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

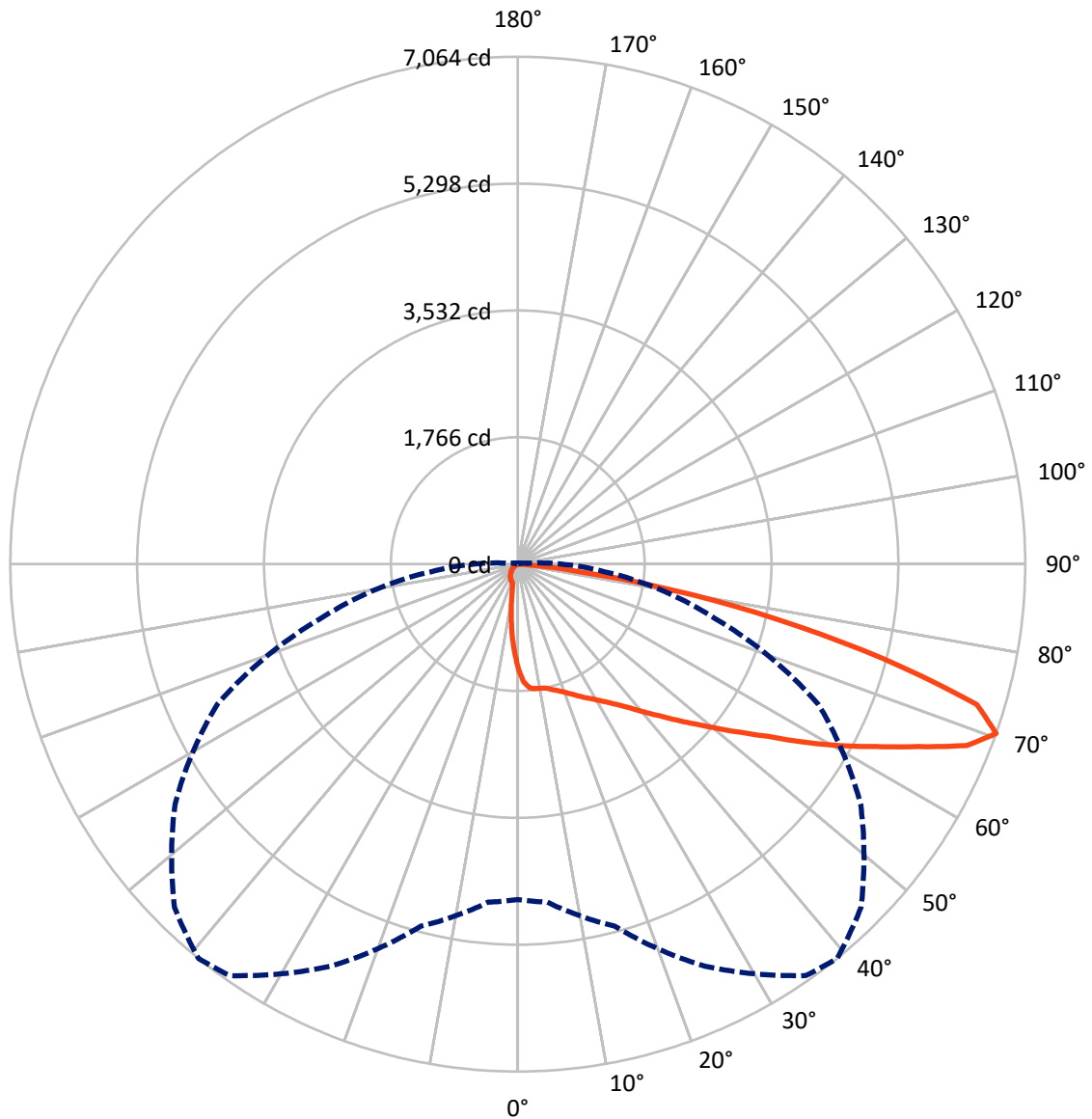
× Max cd
 - - - 1/2 Max cd



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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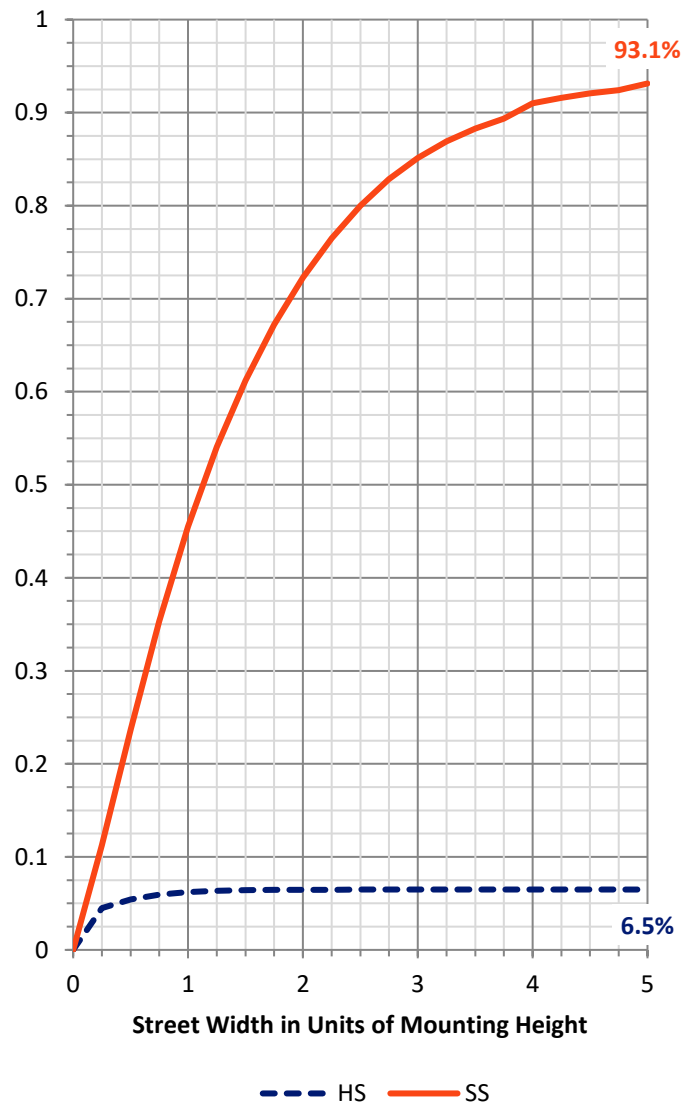
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	613.7	0.0	613.7
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	8798.3	0.0	8798.3
	% Fixture	93.5	0.0	93.5
Total	Lumens	9412.0	0.0	9412.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.3	1.3
10°-20°	325.5	3.5
20°-30°	545.3	5.8
30°-40°	845.7	9.0
40°-50°	1340.2	14.2
50°-60°	1964.6	20.9
60°-70°	2518.1	26.8
70°-80°	1582.3	16.8
80°-90°	164.8	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°	9412.0	100.0
0°-180°	9412.0	100.0



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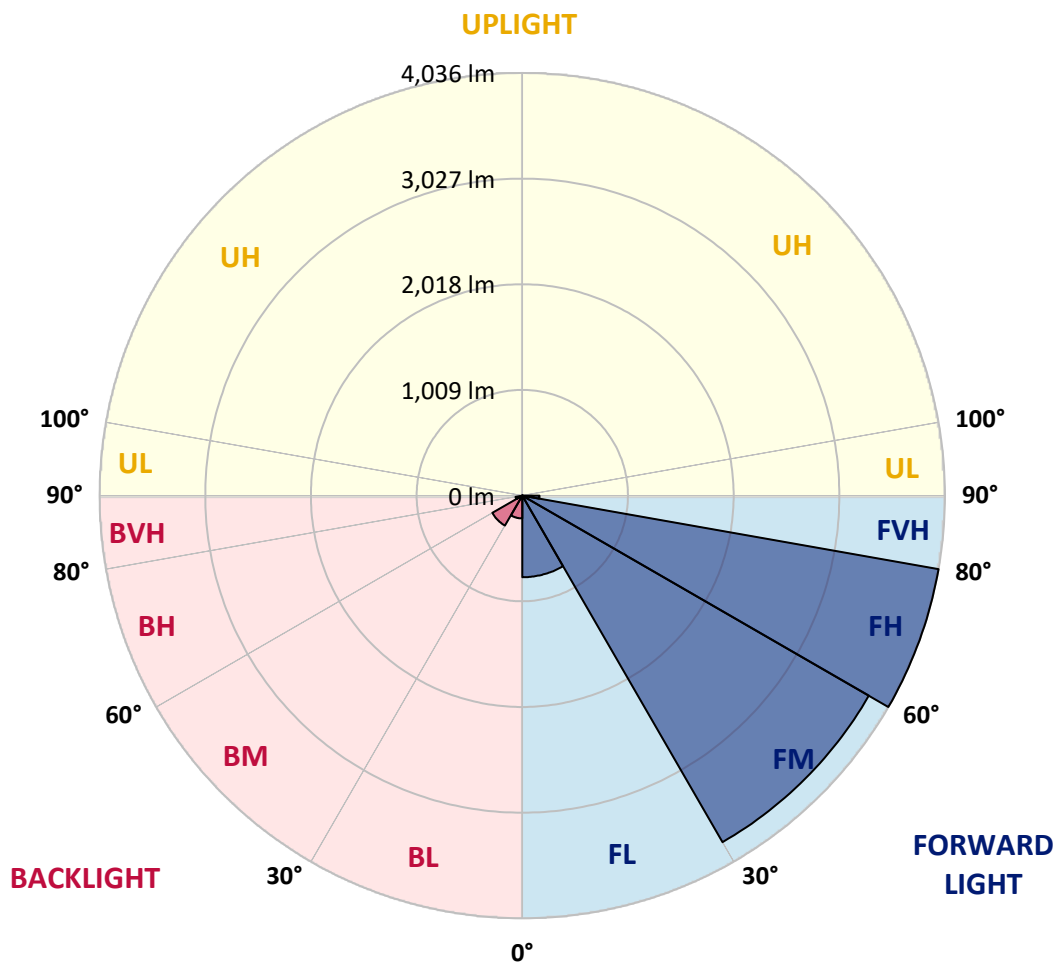
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	778.8	8.3			
FM (30°-60°)	3820.3	40.6			
FH (60°-80°)	4035.6	42.9			G2/5000
FVH (80°-90°)	163.6	1.7			G2/225
BL (0°-30°)	217.3	2.3	B1/500		
BM (30°-60°)	330.3	3.5	B1/1000		
BH (60°-80°)	64.9	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°	1468.6	1468.6	1468.6	1468.6	1468.6	1468.6	1468.6	1468.6	1468.6	1468.6	1468.6
2.5°	1696.9	1691.2	1683.6	1674.8	1649.5	1645.1	1629.9	1597.6	1559.0	1527.4	1483.8
5°	1777.2	1780.4	1774.7	1758.9	1740.6	1729.8	1710.8	1660.9	1610.9	1547.0	1475.6
7.5°	1795.6	1801.9	1794.9	1779.8	1762.1	1750.7	1735.5	1692.5	1634.3	1561.6	1463.5
10°	1793.7	1801.3	1796.8	1782.9	1768.4	1757.6	1741.2	1707.0	1660.2	1583.7	1467.3
12.5°	1790.5	1800.6	1800.0	1793.1	1781.0	1772.8	1762.7	1732.3	1688.7	1616.0	1488.2
15°	1781.7	1794.3	1805.7	1811.4	1812.0	1812.0	1799.4	1767.1	1725.4	1658.3	1515.4
17.5°	1785.5	1800.0	1828.5	1844.9	1856.3	1855.0	1841.8	1807.0	1760.8	1702.0	1543.9
20°	1808.9	1828.5	1868.3	1901.2	1912.6	1908.8	1891.1	1850.6	1798.1	1739.3	1571.7
22.5°	1866.4	1884.1	1934.1	1972.7	1980.9	1970.8	1945.5	1890.5	1843.0	1779.8	1605.2
25°	1952.4	1973.3	2019.5	2048.6	2048.6	2042.9	2007.5	1942.9	1893.6	1836.1	1648.8
27.5°	2056.8	2074.5	2120.0	2146.0	2130.8	2114.3	2078.9	2001.1	1953.7	1906.9	1701.3
30°	2162.4	2173.8	2221.9	2233.3	2217.4	2196.6	2158.6	2080.8	2039.1	2003.0	1777.2
32.5°	2262.3	2287.0	2326.9	2324.3	2302.8	2292.7	2257.9	2175.1	2151.7	2147.9	1883.5
35°	2362.3	2381.2	2416.7	2425.5	2406.5	2404.7	2379.4	2318.0	2318.6	2343.3	2049.2
37.5°	2448.3	2465.4	2507.1	2526.7	2530.5	2540.0	2529.9	2489.4	2547.0	2614.6	2268.7
40°	2520.4	2544.4	2597.6	2631.7	2670.9	2705.7	2707.6	2716.5	2832.2	2948.6	2555.2
42.5°	2576.7	2610.2	2687.4	2750.6	2840.4	2884.7	2920.1	2968.8	3163.6	3337.5	2892.9
45°	2650.0	2688.6	2784.8	2884.1	3024.5	3097.2	3146.5	3276.8	3553.2	3790.4	3239.5
47.5°	2771.5	2791.7	2889.8	3034.6	3219.3	3323.0	3419.1	3616.5	3971.3	4183.8	3527.9
50°	2927.7	2941.0	3015.0	3216.1	3455.2	3591.8	3767.0	3999.1	4405.2	4510.1	3691.1
52.5°	3100.4	3104.8	3160.5	3416.0	3719.6	3891.6	4087.7	4374.2	4758.7	4742.9	3799.2
55°	3300.9	3294.5	3342.0	3632.9	4032.6	4229.3	4457.6	4758.1	5065.5	4908.0	3861.2
57.5°	3530.4	3513.4	3559.5	3920.7	4433.6	4668.9	4901.0	5089.5	5303.3	5046.5	3891.0
60°	3770.8	3736.6	3791.7	4243.9	4906.1	5129.3	5322.2	5372.8	5553.7	5156.5	3839.7
62.5°	3962.4	3963.1	4065.5	4587.9	5391.8	5587.2	5689.7	5735.2	5769.4	5132.5	3570.3
65°	4261.6	4271.7	4435.5	5065.5	5954.1	6123.6	6193.8	6045.8	5778.9	4834.0	3165.5
67.5°	4570.2	4602.5	4902.3	5723.2	6603.6	6740.2	6649.8	6105.9	5520.8	4152.8	2400.2
70°	4670.8	4723.9	5217.9	6176.1	6993.2	7064.1	6757.9	5825.7	4615.1	2776.5	1208.0
72.5°	4279.9	4365.9	5036.4	6011.0	6744.7	6683.3	6046.4	4885.8	2934.0	1054.3	368.7
75°	3018.1	3056.1	4185.7	4986.4	5424.7	5250.8	4599.3	3149.7	1206.8	296.0	126.5
77.5°	1558.4	1540.1	2489.4	3308.4	3868.8	3688.6	3011.8	1630.5	457.3	123.3	78.4
80°	805.8	819.0	1077.1	1733.6	2361.6	2173.2	1605.8	755.8	243.5	68.3	60.1
82.5°	451.6	423.8	619.2	757.1	1104.3	865.9	616.0	535.1	106.3	41.1	56.9
85°	82.2	86.0	339.6	409.2	383.3	243.5	198.6	357.3	31.0	22.8	39.8
87.5°	1.3	1.3	65.8	117.6	74.6	34.2	62.6	51.2	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°	1468.6	1468.6	1468.6	1468.6	1468.6	1468.6	1468.6	1468.6	1468.6	1468.6	1468.6
2.5°	1461.6	1437.6	1392.7	1348.4	1292.1	1246.0	1215.0	1182.7	1149.8	1152.4	1159.9
5°	1436.3	1394.6	1306.1	1212.4	1122.6	1041.7	962.0	890.5	861.4	834.9	836.1
7.5°	1411.0	1352.2	1222.6	1075.8	939.9	802.0	702.0	619.8	576.2	543.3	533.8
10°	1399.7	1321.9	1146.0	944.3	751.4	600.8	472.5	405.4	353.6	337.1	341.5
12.5°	1404.7	1306.7	1077.1	825.4	595.8	418.7	328.9	294.7	283.3	281.4	280.2
15°	1414.2	1295.9	1009.4	693.8	437.7	311.2	276.4	270.1	268.8	267.5	268.2
17.5°	1426.9	1286.4	937.3	570.5	335.8	272.0	261.8	258.7	258.0	258.0	258.0
20°	1439.5	1275.7	857.0	460.4	280.2	256.8	250.5	248.6	247.9	247.9	247.3
22.5°	1454.0	1266.2	775.4	361.8	258.0	246.0	240.3	239.1	238.4	237.8	237.8
25°	1474.9	1254.2	688.8	296.0	244.1	235.9	230.2	229.0	228.3	225.8	226.4
27.5°	1502.7	1245.3	599.6	255.5	231.5	223.3	219.5	217.6	216.3	214.4	215.0
30°	1540.7	1237.7	504.7	233.4	216.9	210.0	206.2	204.9	203.7	201.8	201.8
32.5°	1606.5	1240.9	404.8	215.7	203.7	195.4	191.6	190.4	189.1	187.2	187.2
35°	1705.1	1259.2	323.8	200.5	187.8	179.6	175.8	175.8	173.9	171.4	170.8
37.5°	1866.4	1306.1	259.9	185.9	172.7	165.1	160.6	159.4	157.5	153.7	153.1
40°	2056.8	1378.8	218.8	171.4	158.7	151.2	147.4	143.6	138.5	134.7	134.1
42.5°	2295.9	1453.4	189.7	156.9	145.5	138.5	134.1	127.8	120.2	115.1	114.5
45°	2545.1	1521.7	170.1	143.6	132.8	127.1	122.1	111.9	102.5	96.1	95.5
47.5°	2731.0	1534.4	154.3	130.9	122.1	116.4	109.4	96.8	84.1	78.4	76.5
50°	2818.9	1473.0	137.9	118.3	111.3	105.0	96.1	81.6	67.7	60.7	59.5
52.5°	2849.9	1366.8	124.6	106.9	100.6	93.0	82.2	65.8	53.1	46.2	45.5
55°	2837.3	1232.7	112.6	96.1	87.9	79.1	68.3	52.5	39.2	33.5	32.3
57.5°	2770.9	1061.9	100.6	85.4	75.3	66.4	54.4	39.2	26.6	21.5	20.9
60°	2591.9	829.2	88.5	73.4	63.9	54.4	43.0	27.8	16.4	12.0	12.0
62.5°	2289.5	615.4	77.2	61.3	53.8	43.6	30.4	17.7	8.9	6.3	5.7
65°	1913.2	454.1	64.5	51.9	44.9	34.2	21.5	10.8	4.4	1.9	1.3
67.5°	1335.1	280.2	53.8	42.4	36.7	24.7	13.3	4.4	1.9	0.0	0.0
70°	606.5	133.5	41.1	32.3	27.8	17.7	7.0	2.5	1.3	0.0	0.0
72.5°	188.5	70.2	29.1	23.4	19.0	11.4	3.8	1.9	1.3	0.0	0.0
75°	87.3	44.9	18.3	12.6	10.8	5.7	2.5	1.3	0.6	0.0	0.0
77.5°	65.1	34.8	10.8	7.0	5.7	3.8	1.9	1.3	0.6	0.0	0.0
80°	56.9	17.7	6.3	4.4	3.2	2.5	1.3	0.6	0.0	0.0	0.0
82.5°	51.2	8.9	3.8	2.5	1.9	1.3	0.6	0.6	0.0	0.0	0.0
85°	27.8	5.1	2.5	1.9	1.3	0.6	0.6	0.0	0.0	0.0	0.0
87.5°	5.1	2.5	1.9	1.3	1.3	0.6	0.6	0.6	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)