

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: P651261

Luminaire Tested: **GALN-SA2D-840-U-T3R-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651261  
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-SA2D-840-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 4000K, 1200mA 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: 10243.4 lumens  
Efficiency: N/A  
Efficacy: 81.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

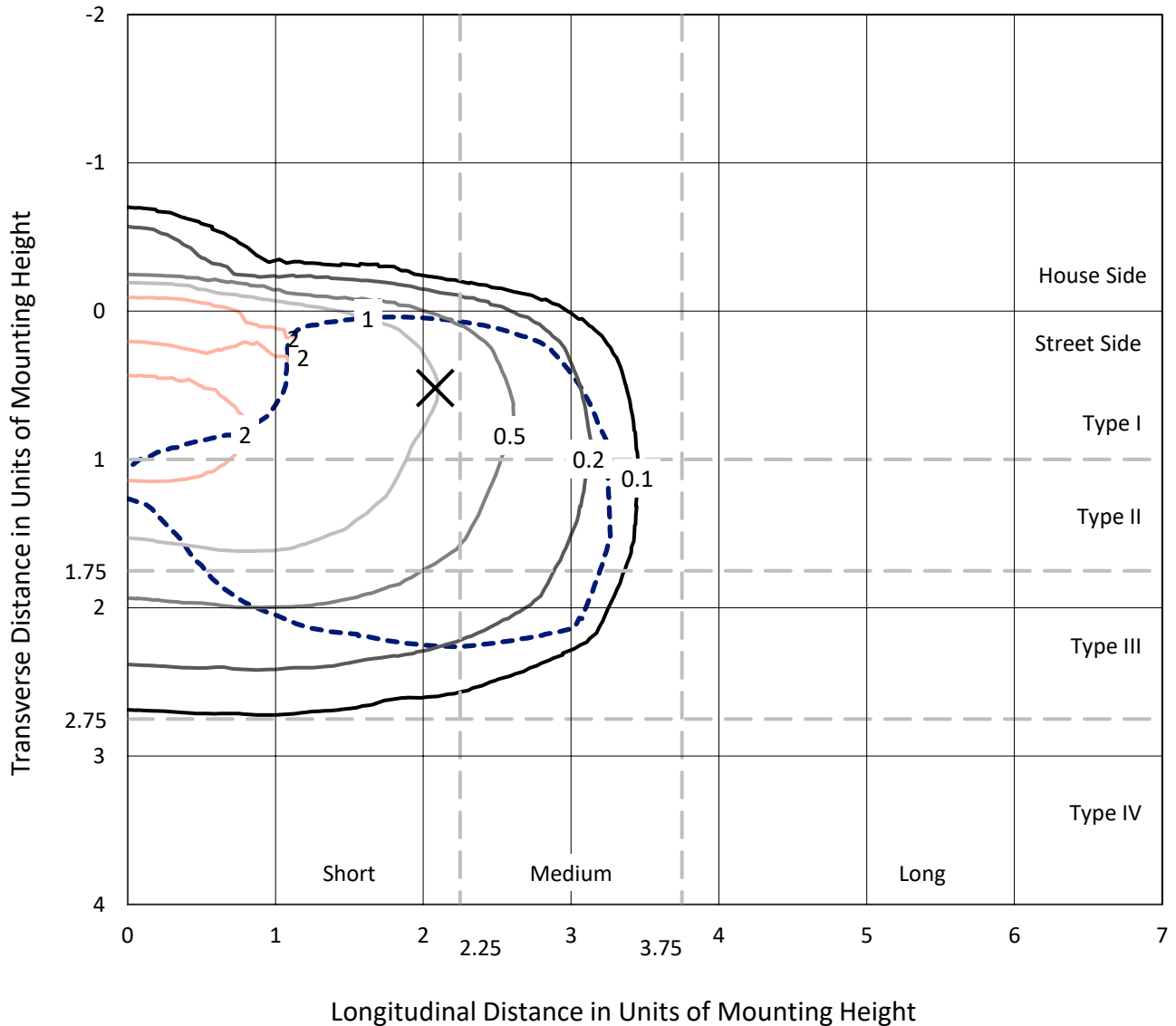
Input Watts (W): 125  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

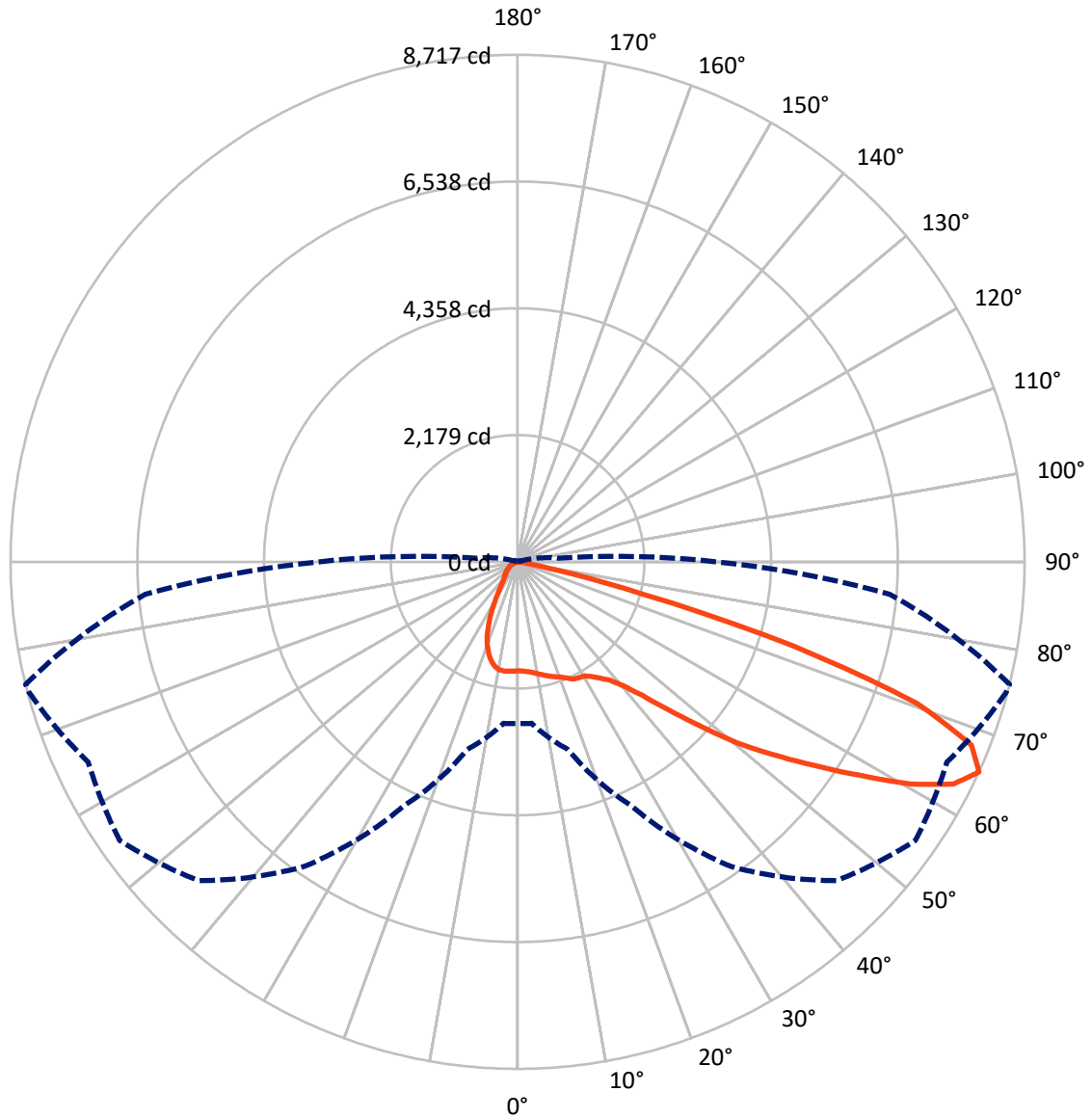
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 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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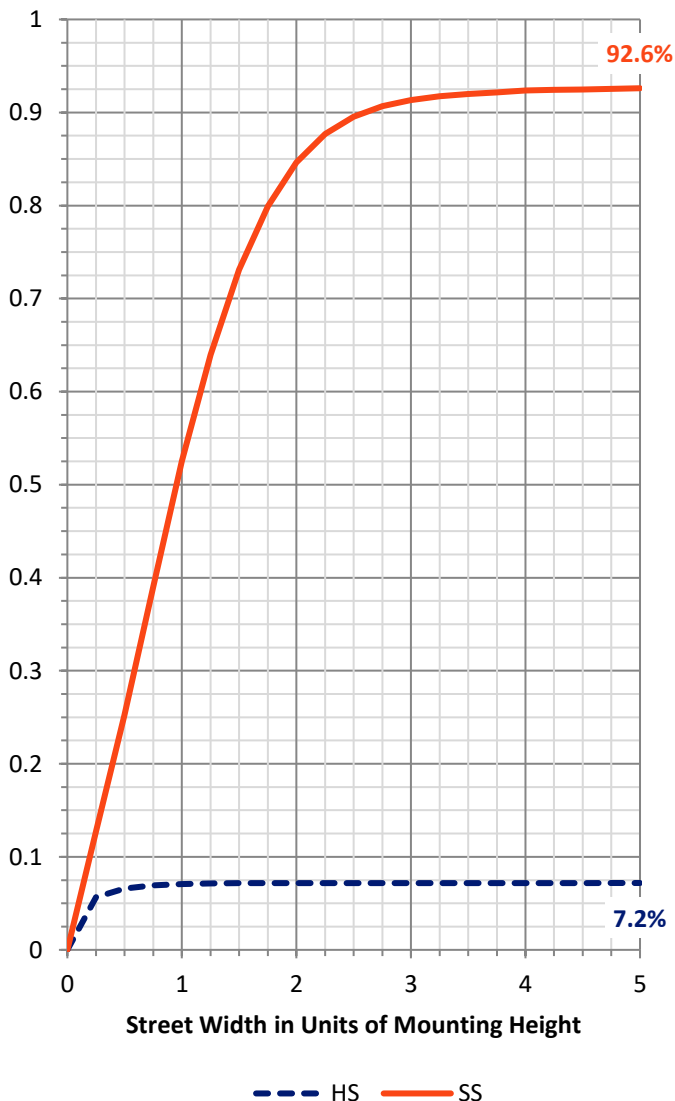
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	739.8	0.0	739.8
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	9503.6	0.0	9503.6
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	10243.4	0.0	10243.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	154.4	1.5
10°-20°	343.7	3.4
20°-30°	553.8	5.4
30°-40°	963.0	9.4
40°-50°	1591.3	15.5
50°-60°	2458.2	24.0
60°-70°	3001.8	29.3
70°-80°	1139.3	11.1
80°-90°	38.0	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°	10243.4	100.0
0°-180°	10243.4	100.0

**Coefficient of Utilization**



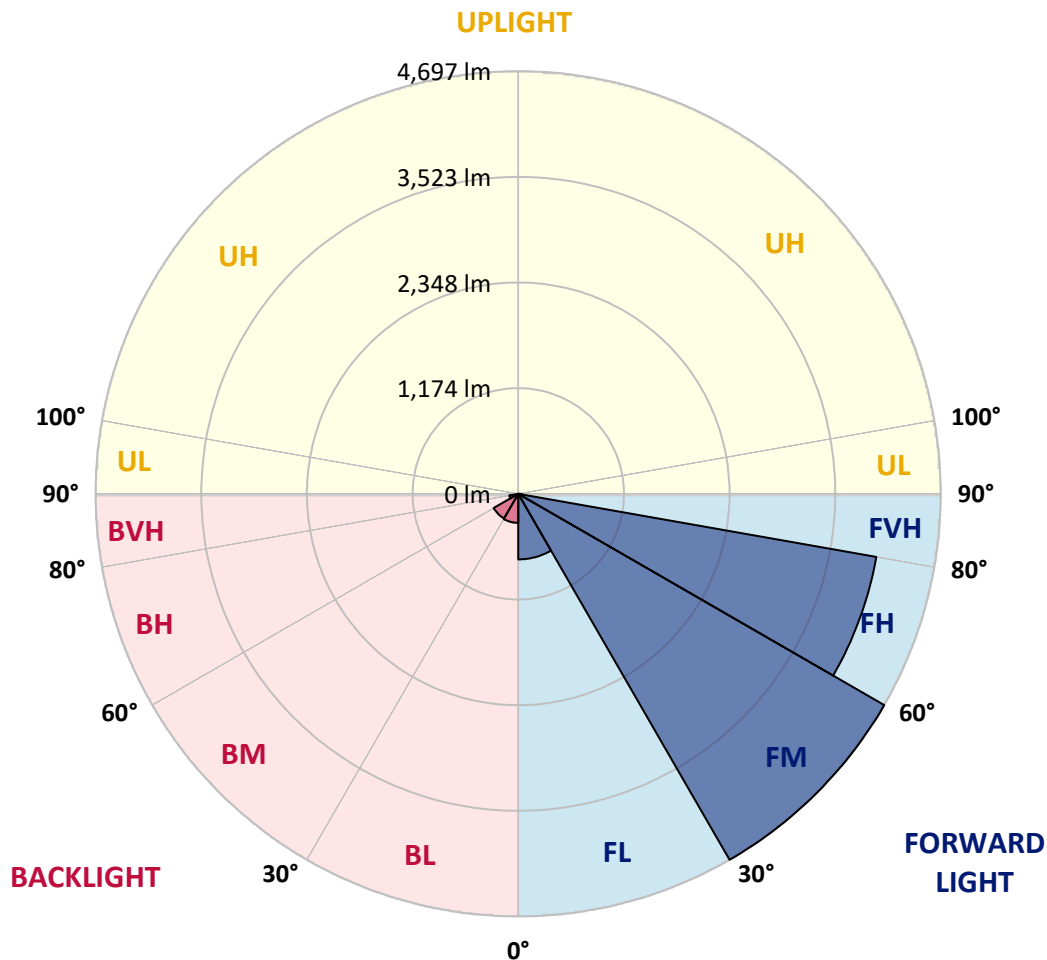
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	728.7	7.1			
FM (30°-60°)	4696.7	45.9			
FH (60°-80°)	4040.7	39.4			G2/5000
FVH (80°-90°)	37.5	0.4			G1/100
BL (0°-30°)	323.2	3.2	B1/500		
BM (30°-60°)	315.7	3.1	B1/1000		
BH (60°-80°)	100.4	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°	1873.8	1873.8	1873.8	1873.8	1873.8	1873.8	1873.8	1873.8	1873.8	1873.8	1873.8
2.5°	1790.7	1791.4	1795.7	1806.6	1823.2	1837.0	1848.5	1867.4	1880.4	1881.8	1886.1
5°	1667.0	1658.3	1667.0	1695.2	1720.5	1758.9	1805.9	1852.9	1894.8	1897.7	1918.0
7.5°	1528.2	1535.4	1549.1	1578.1	1625.8	1684.4	1752.3	1836.2	1915.8	1923.0	1962.8
10°	1387.1	1403.0	1425.4	1469.6	1536.1	1612.0	1704.6	1824.6	1949.0	1959.2	2027.9
12.5°	1257.0	1264.2	1291.7	1351.0	1433.4	1540.5	1668.5	1818.2	1985.9	1998.2	2097.3
15°	1157.1	1166.6	1190.4	1243.9	1335.8	1473.2	1638.8	1816.0	2022.1	2039.4	2166.8
17.5°	1138.3	1144.1	1154.3	1190.4	1270.7	1419.7	1612.0	1815.3	2056.8	2077.8	2231.1
20°	1215.7	1210.6	1200.5	1196.9	1241.1	1378.5	1592.5	1821.0	2090.1	2113.9	2299.1
22.5°	1409.5	1416.1	1356.8	1286.6	1272.1	1371.9	1589.7	1848.5	2142.9	2171.0	2375.1
25°	1821.0	1771.1	1678.6	1510.8	1384.2	1411.7	1622.2	1913.6	2204.3	2235.5	2443.7
27.5°	2275.9	2260.8	2116.9	1840.6	1604.8	1495.6	1680.0	1963.5	2224.6	2256.4	2482.8
30°	2722.9	2741.0	2576.1	2270.9	1925.2	1651.1	1734.2	1982.3	2242.7	2275.9	2532.7
32.5°	3137.3	3159.0	3014.3	2712.1	2302.7	1920.1	1827.6	2055.4	2318.6	2352.6	2615.8
35°	3463.5	3466.3	3357.2	3116.3	2714.9	2247.0	2029.3	2183.4	2421.3	2461.1	2704.1
37.5°	3762.9	3758.5	3630.5	3423.0	3058.5	2571.8	2283.1	2330.9	2538.5	2579.7	2831.4
40°	3984.9	3987.8	3946.6	3751.3	3378.9	2871.8	2484.2	2469.0	2735.2	2799.5	3016.5
42.5°	4133.2	4159.9	4180.2	4081.1	3781.6	3241.5	2793.0	2764.9	3076.5	3130.0	3278.3
45°	4253.2	4301.0	4402.2	4397.1	4168.6	3694.8	3216.8	3159.0	3560.4	3617.5	3611.8
47.5°	4340.7	4389.2	4557.0	4658.2	4532.4	4134.6	3749.9	3700.0	4138.2	4200.4	3979.9
50°	4385.6	4443.4	4657.5	4853.5	4816.6	4558.4	4357.4	4360.2	4836.1	4896.1	4406.5
52.5°	4280.7	4355.9	4711.0	5063.9	5135.6	4964.1	4926.5	5021.9	5457.3	5508.7	4792.0
55°	3945.8	4040.6	4637.9	5243.3	5505.1	5442.9	5573.1	5718.5	6136.4	6169.7	5187.6
57.5°	3734.0	3834.5	4422.4	5395.9	5949.1	6044.6	6250.7	6357.0	6837.2	6921.9	5641.8
60°	3555.3	3634.1	4245.3	5428.4	6400.4	6780.8	6981.1	7091.1	7702.2	7757.1	6141.5
62.5°	3258.0	3348.4	3945.8	5201.3	6627.5	7370.3	7785.4	7736.2	8371.1	8409.5	6448.1
65°	2780.0	2788.0	3338.3	4630.7	6393.2	7752.8	8350.2	8144.1	8690.8	8716.9	6424.3
67.5°	2074.9	2151.5	2568.2	3639.9	5400.2	7425.9	8533.2	8154.9	8489.1	8416.7	5914.4
70°	1336.5	1395.1	1740.8	2524.0	3893.7	6197.2	7926.4	7595.9	7450.5	7290.0	4841.2
72.5°	616.9	692.1	1034.2	1442.1	2309.2	4414.5	6434.4	6171.2	5362.6	4966.3	3077.3
75°	269.0	287.9	510.6	760.9	1082.6	2334.5	4242.3	3830.8	2422.0	2212.3	1231.6
77.5°	164.2	176.4	267.6	407.9	425.2	889.5	2285.3	1671.3	748.5	660.3	334.1
80°	111.3	125.1	194.5	213.4	145.3	248.1	857.7	446.2	151.1	144.7	71.6
82.5°	54.2	68.7	143.9	119.3	62.9	79.6	249.5	95.5	44.2	41.2	25.3
85°	8.0	13.7	81.0	78.1	28.2	18.8	44.2	23.9	15.2	14.5	11.6
87.5°	0.0	0.0	27.5	12.3	2.9	2.9	5.0	5.0	5.8	5.0	5.8
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°	1873.8	1873.8	1873.8	1873.8	1873.8	1873.8	1873.8	1873.8	1873.8	1873.8	1873.8
2.5°	1888.3	1891.9	1878.2	1858.7	1837.7	1816.7	1787.0	1760.3	1744.4	1753.8	1730.6
5°	1922.3	1919.4	1883.3	1824.0	1745.1	1650.4	1556.4	1476.0	1450.1	1410.9	1406.7
7.5°	1969.3	1961.4	1884.7	1748.7	1570.8	1392.9	1219.4	1104.3	1038.6	982.9	984.3
10°	2035.1	2012.0	1868.0	1616.4	1323.5	1055.2	833.9	682.0	616.2	595.2	578.6
12.5°	2103.1	2058.3	1821.8	1437.8	1030.6	721.1	507.0	414.4	373.9	360.9	359.4
15°	2163.8	2093.0	1740.8	1223.0	749.2	460.7	345.7	315.3	310.2	311.0	310.2
17.5°	2223.9	2120.5	1628.7	995.2	509.1	330.5	297.2	290.0	292.2	295.1	294.3
20°	2273.8	2126.2	1485.5	759.3	360.2	290.0	279.1	277.7	279.9	282.1	282.1
22.5°	2328.1	2130.6	1315.5	525.8	294.3	269.8	264.0	264.0	266.8	269.8	270.5
25°	2368.5	2106.7	1112.3	377.5	259.6	250.2	247.3	248.1	251.0	252.4	251.7
27.5°	2375.1	2039.4	896.8	289.3	235.7	226.4	223.5	226.4	222.8	224.9	223.5
30°	2380.8	1954.1	678.4	243.7	214.0	199.6	195.3	190.9	188.0	184.4	183.7
32.5°	2398.9	1853.6	495.4	219.2	193.9	177.9	167.8	155.5	146.1	143.2	142.5
35°	2406.9	1732.8	363.8	199.6	175.8	158.4	140.3	123.0	109.2	104.1	107.7
37.5°	2437.2	1615.6	282.1	185.1	159.8	138.1	115.0	93.3	80.3	77.4	78.8
40°	2499.5	1488.4	236.5	172.8	146.1	119.3	91.2	70.1	61.5	58.6	57.9
42.5°	2599.2	1361.8	210.4	161.3	132.4	100.5	71.6	55.0	47.8	45.6	45.6
45°	2720.7	1240.3	192.3	148.9	117.9	81.0	56.4	44.2	39.8	38.3	38.3
47.5°	2880.6	1134.0	177.2	136.7	102.0	64.3	45.6	38.3	35.4	36.2	36.9
50°	3042.6	1055.2	160.5	123.0	83.9	52.8	39.0	34.0	33.3	34.0	34.0
52.5°	3164.8	1008.9	138.1	104.1	65.9	44.2	34.7	31.8	31.1	29.7	29.7
55°	3329.7	998.8	109.9	84.6	52.1	36.9	31.1	28.9	26.7	25.3	24.6
57.5°	3541.5	1010.3	84.6	65.9	40.5	30.4	27.5	23.9	20.9	18.1	18.1
60°	3673.2	984.3	65.9	50.6	29.7	24.6	20.9	17.3	13.7	11.6	10.8
62.5°	3631.3	874.4	52.1	37.6	20.9	18.1	13.7	11.6	8.0	5.8	5.0
65°	3415.0	705.9	42.0	26.1	15.2	10.8	7.2	7.2	3.6	0.8	0.0
67.5°	2989.0	522.8	33.3	17.3	8.7	5.0	3.6	2.2	0.0	0.0	0.0
70°	2432.8	377.5	26.1	10.8	5.0	3.6	1.4	0.8	0.0	0.0	0.0
72.5°	1544.7	216.2	20.3	6.5	3.6	1.4	0.0	0.0	0.0	0.0	0.0
75°	597.4	84.6	13.7	4.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	169.2	39.8	8.0	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	44.2	17.3	4.4	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	20.9	7.2	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	12.3	2.9	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.8	0.8	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)