

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: P651237

Luminaire Tested: **GALN-SA2D-840-U-SL4-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651237  
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-SA2D-840-U-SL4-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 4000K, 1200mA 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: 10762.3 lumens  
Efficiency: N/A  
Efficacy: 86.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

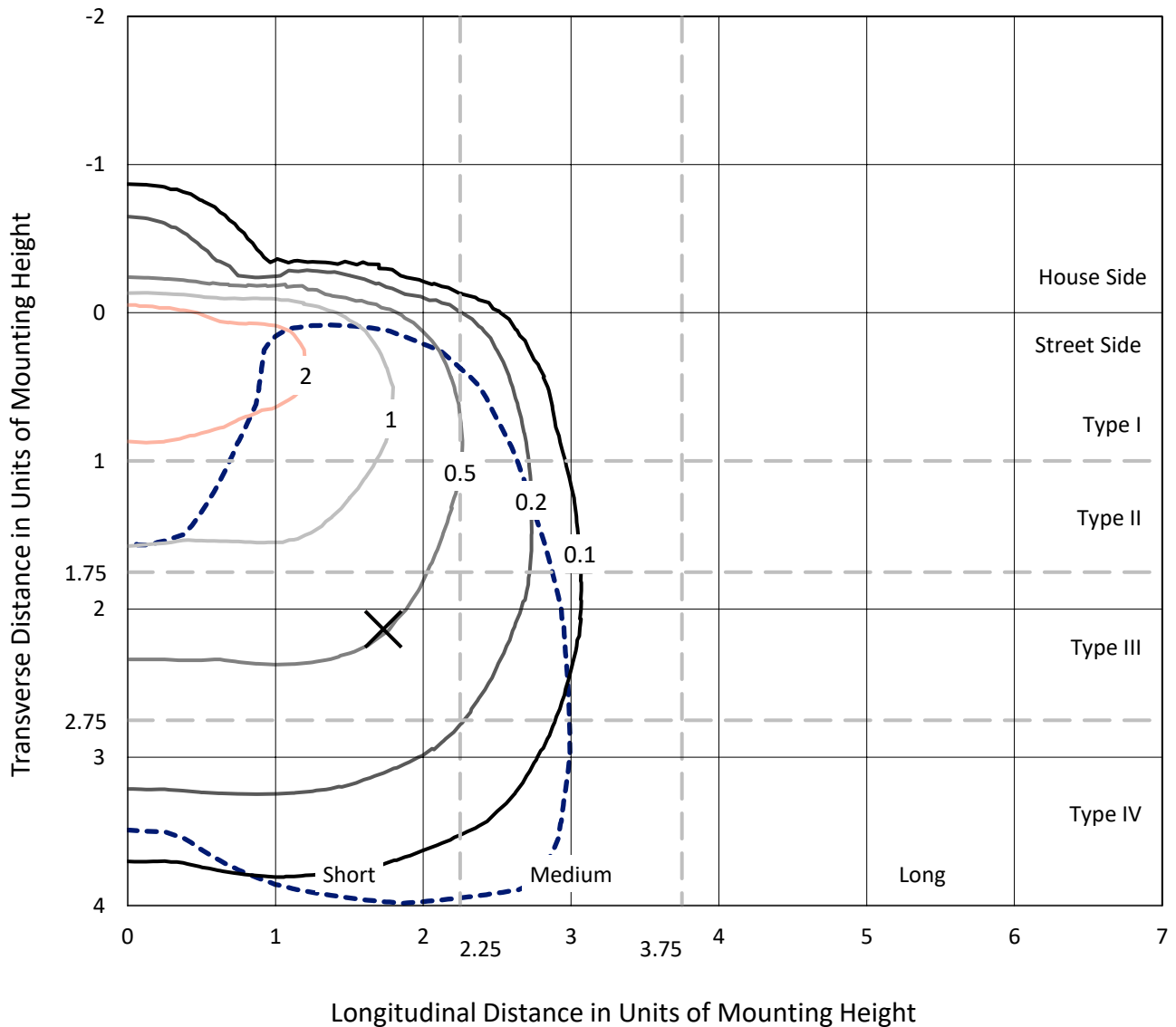
Input Watts (W): 125  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

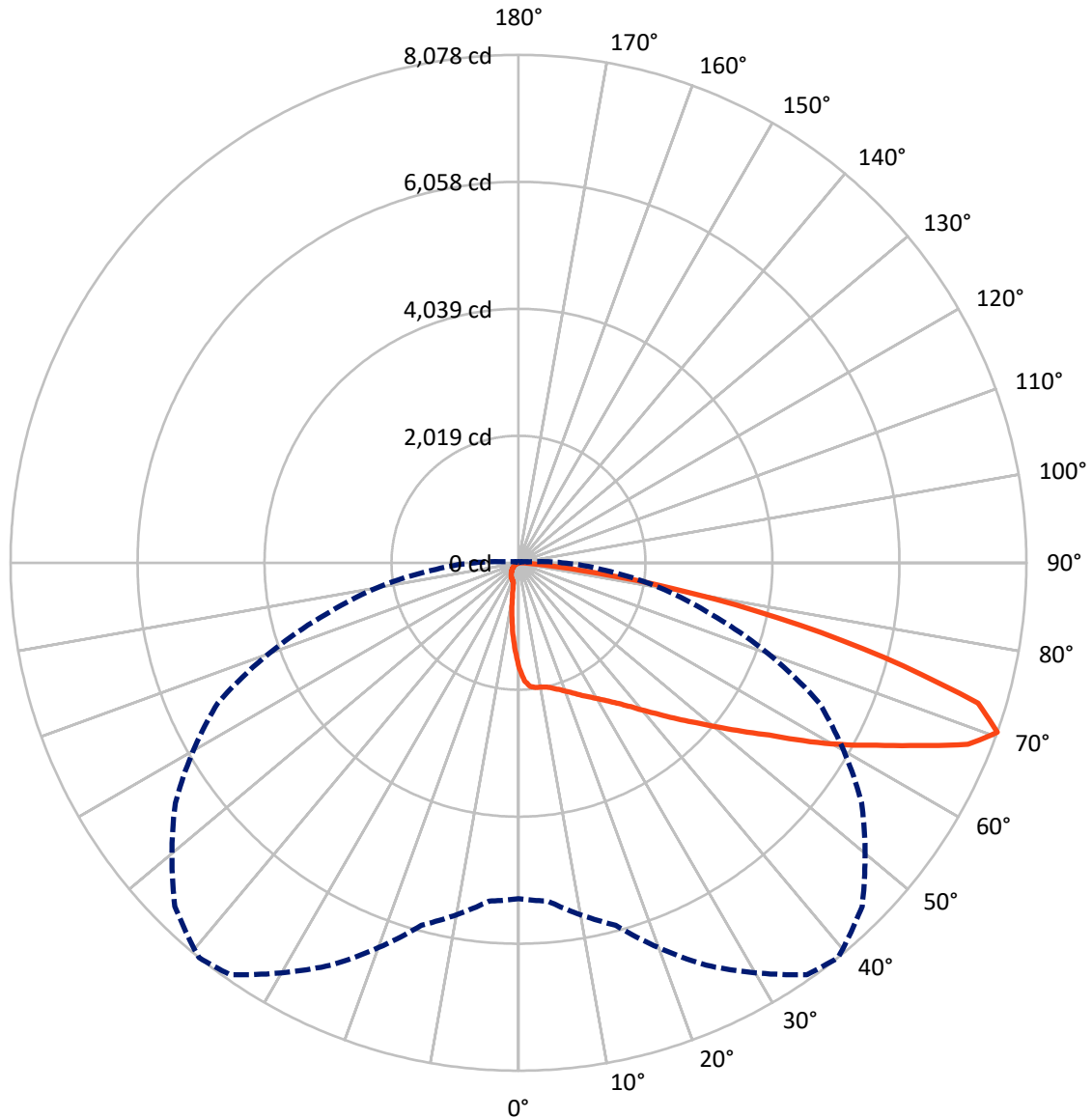
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 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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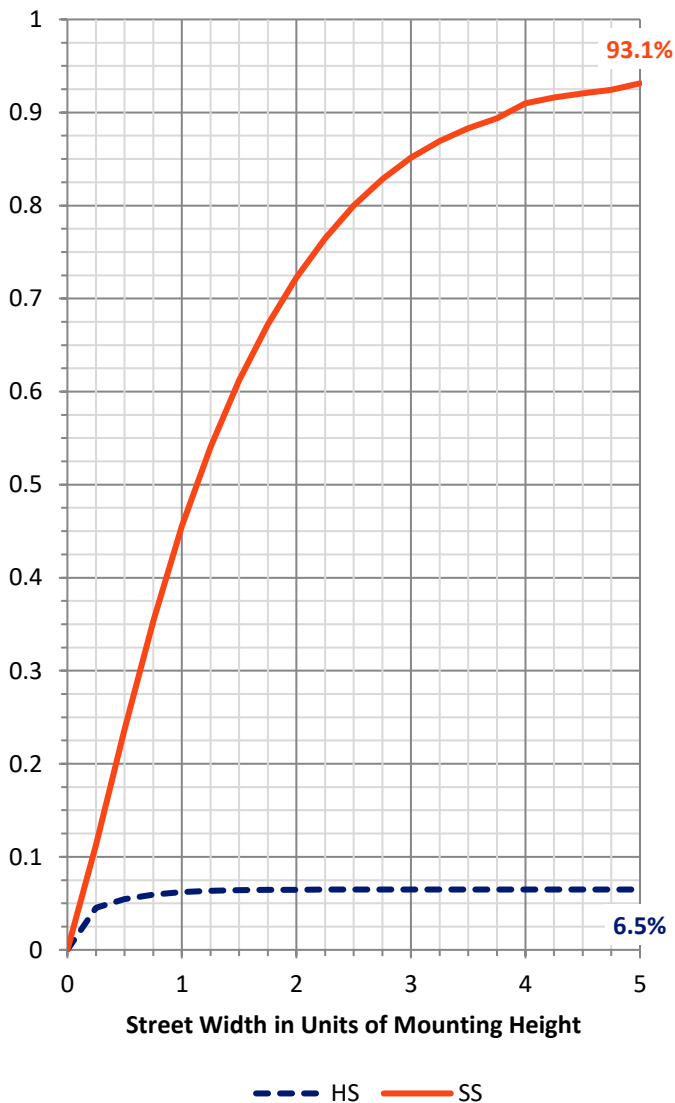
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	701.8	0.0	701.8
	% Fixture	6.5	0.0	6.5
<b>Street Side</b>	Lumens	10060.5	0.0	10060.5
	% Fixture	93.5	0.0	93.5
<b>Total</b>	Lumens	10762.3	0.0	10762.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	143.2	1.3
10°-20°	372.2	3.5
20°-30°	623.6	5.8
30°-40°	967.1	9.0
40°-50°	1532.5	14.2
50°-60°	2246.4	20.9
60°-70°	2879.4	26.8
70°-80°	1809.3	16.8
80°-90°	188.5	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°	10762.3	100.0
0°-180°	10762.3	100.0

**Coefficient of Utilization**



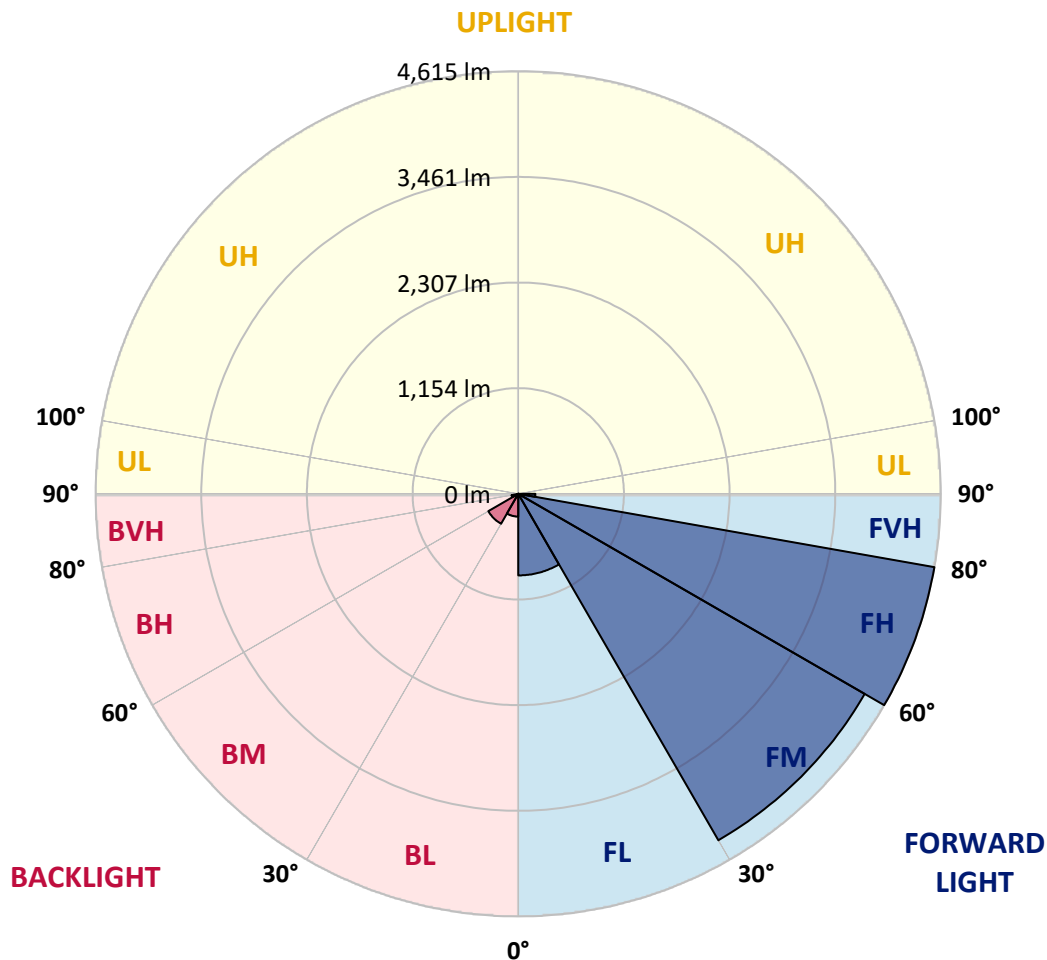
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	890.5	8.3			
FM (30°-60°)	4368.4	40.6			
FH (60°-80°)	4614.5	42.9			G2/5000
FVH (80°-90°)	187.1	1.7			G2/225
BL (0°-30°)	248.5	2.3	B1/500		
BM (30°-60°)	377.7	3.5	B1/1000		
BH (60°-80°)	74.2	0.7	B0/110		G0/110
BVH (80°-90°)	1.4	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°	1679.3	1679.3	1679.3	1679.3	1679.3	1679.3	1679.3	1679.3	1679.3	1679.3	1679.3
2.5°	1940.4	1933.9	1925.1	1915.0	1886.1	1881.1	1863.7	1826.8	1782.7	1746.5	1696.6
5°	2032.2	2035.8	2029.3	2011.3	1990.2	1977.9	1956.3	1899.1	1842.0	1769.0	1687.2
7.5°	2053.2	2060.4	2052.5	2035.1	2014.9	2001.8	1984.5	1935.3	1868.8	1785.6	1673.5
10°	2051.0	2059.7	2054.6	2038.8	2022.1	2009.8	1991.0	1952.0	1898.4	1810.9	1677.9
12.5°	2047.4	2058.9	2058.3	2050.3	2036.6	2027.1	2015.5	1980.9	1930.9	1847.8	1701.7
15°	2037.2	2051.7	2064.7	2071.3	2072.0	2072.0	2057.5	2020.7	1972.9	1896.3	1732.8
17.5°	2041.6	2058.3	2090.8	2109.6	2122.6	2121.2	2105.9	2066.2	2013.4	1946.2	1765.3
20°	2068.4	2090.8	2136.4	2174.0	2186.9	2182.6	2162.4	2116.1	2056.1	1988.8	1797.1
22.5°	2134.2	2154.4	2211.6	2255.6	2265.1	2253.5	2224.6	2161.6	2107.5	2035.1	1835.5
25°	2232.5	2256.4	2309.2	2342.4	2342.4	2336.0	2295.4	2221.7	2165.2	2099.5	1885.4
27.5°	2351.9	2372.1	2424.2	2453.9	2436.5	2417.7	2377.2	2288.2	2233.9	2180.5	1945.4
30°	2472.6	2485.7	2540.7	2553.6	2535.5	2511.7	2468.3	2379.4	2331.6	2290.4	2032.2
32.5°	2586.9	2615.1	2660.7	2657.8	2633.2	2621.6	2581.9	2487.1	2460.3	2456.0	2153.7
35°	2701.2	2722.9	2763.4	2773.5	2751.8	2749.6	2720.7	2650.6	2651.3	2679.5	2343.2
37.5°	2799.5	2819.0	2866.8	2889.2	2893.5	2904.4	2892.8	2846.5	2912.4	2989.8	2594.1
40°	2881.9	2909.4	2970.2	3009.3	3054.1	3093.9	3096.1	3106.1	3238.5	3371.6	2921.7
42.5°	2946.4	2984.7	3072.9	3145.3	3247.9	3298.6	3339.0	3394.7	3617.5	3816.4	3307.9
45°	3030.2	3074.4	3184.3	3297.8	3458.4	3541.5	3598.0	3746.9	4063.0	4334.2	3704.3
47.5°	3169.1	3192.3	3304.3	3470.0	3681.1	3799.7	3909.6	4135.3	4541.0	4784.0	4034.0
50°	3347.7	3362.9	3447.5	3677.5	3950.8	4107.1	4307.4	4572.9	5037.2	5157.2	4220.6
52.5°	3545.2	3550.2	3613.9	3906.0	4253.2	4449.9	4674.1	5001.7	5441.4	5423.4	4344.3
55°	3774.4	3767.2	3821.4	4154.1	4611.2	4836.1	5097.1	5440.7	5792.1	5612.1	4415.2
57.5°	4037.0	4017.4	4070.2	4483.1	5069.7	5338.7	5604.1	5819.6	6064.1	5770.4	4449.1
60°	4311.7	4272.7	4335.6	4852.7	5609.9	5865.2	6085.8	6143.7	6350.5	5896.3	4390.6
62.5°	4530.9	4531.6	4648.8	5246.2	6165.4	6388.8	6506.0	6558.0	6597.1	5868.8	4082.5
65°	4872.9	4884.5	5071.8	5792.1	6808.2	7002.1	7082.4	6913.1	6607.9	5527.5	3619.7
67.5°	5225.9	5262.8	5605.6	6544.3	7551.0	7707.2	7603.8	6981.8	6312.9	4748.5	2744.6
70°	5340.9	5401.7	5966.5	7062.1	7996.5	8077.5	7727.4	6661.5	5277.3	3174.9	1381.3
72.5°	4893.9	4992.3	5758.9	6873.3	7712.3	7642.1	6913.9	5586.8	3354.9	1205.6	421.6
75°	3451.1	3494.5	4786.2	5701.7	6203.0	6004.1	5259.2	3601.6	1379.9	338.4	144.7
77.5°	1782.0	1761.0	2846.5	3783.1	4423.8	4217.7	3443.9	1864.4	522.8	141.0	89.7
80°	921.4	936.5	1231.6	1982.3	2700.5	2484.9	1836.2	864.2	278.5	78.1	68.7
82.5°	516.4	484.6	708.0	865.6	1262.7	990.1	704.4	611.8	121.5	47.0	65.1
85°	94.0	98.4	388.4	467.9	438.2	278.5	227.1	408.6	35.4	26.1	45.6
87.5°	1.4	1.4	75.2	134.5	85.4	39.0	71.6	58.6	7.2	10.1	8.0
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°	1679.3	1679.3	1679.3	1679.3	1679.3	1679.3	1679.3	1679.3	1679.3	1679.3	1679.3
2.5°	1671.3	1643.8	1592.5	1541.9	1477.5	1424.7	1389.2	1352.4	1314.8	1317.7	1326.3
5°	1642.4	1594.7	1493.4	1386.4	1283.7	1191.1	1100.0	1018.3	985.0	954.6	956.0
7.5°	1613.5	1546.2	1398.0	1230.2	1074.7	917.0	802.7	708.7	658.8	621.2	610.4
10°	1600.4	1511.5	1310.4	1079.8	859.2	687.0	540.3	463.6	404.3	385.4	390.6
12.5°	1606.2	1494.1	1231.6	943.8	681.3	478.8	376.1	337.0	324.0	321.9	320.4
15°	1617.1	1481.8	1154.3	793.3	500.5	355.8	316.0	308.8	307.4	306.0	306.6
17.5°	1631.5	1471.0	1071.8	652.4	384.0	311.0	299.4	295.8	295.1	295.1	295.1
20°	1646.0	1458.7	979.9	526.5	320.4	293.6	286.4	284.3	283.5	283.5	282.7
22.5°	1662.7	1447.9	886.7	413.7	295.1	281.3	274.8	273.4	272.7	271.9	271.9
25°	1686.5	1434.2	787.6	338.4	279.1	269.8	263.2	261.8	261.0	258.2	258.9
27.5°	1718.3	1424.0	685.6	292.2	264.7	255.3	251.0	248.8	247.3	245.2	245.9
30°	1761.7	1415.3	577.1	266.8	248.1	240.1	235.7	234.3	232.9	230.7	230.7
32.5°	1836.9	1418.9	462.9	246.6	232.9	223.5	219.2	217.7	216.2	214.0	214.0
35°	1949.8	1439.9	370.3	229.3	214.8	205.4	201.1	201.1	198.9	196.0	195.3
37.5°	2134.2	1493.4	297.2	212.6	197.5	188.7	183.7	182.2	180.1	175.8	175.0
40°	2351.9	1576.6	250.2	196.0	181.5	172.8	168.5	164.2	158.4	154.1	153.3
42.5°	2625.3	1661.9	217.0	179.4	166.3	158.4	153.3	146.1	137.4	131.6	130.9
45°	2910.2	1740.0	194.5	164.2	151.9	145.3	139.6	128.0	117.2	109.9	109.2
47.5°	3122.8	1754.5	176.4	149.7	139.6	133.0	125.1	110.7	96.2	89.7	87.5
50°	3223.3	1684.4	157.7	135.2	127.2	120.0	109.9	93.3	77.4	69.5	68.0
52.5°	3258.8	1562.8	142.5	122.2	115.0	106.3	94.0	75.2	60.7	52.8	52.1
55°	3244.3	1409.5	128.8	109.9	100.5	90.4	78.1	60.0	44.8	38.3	36.9
57.5°	3168.4	1214.2	115.0	97.6	86.0	75.9	62.2	44.8	30.4	24.6	23.9
60°	2963.7	948.1	101.3	83.9	73.1	62.2	49.2	31.8	18.8	13.7	13.7
62.5°	2618.0	703.7	88.2	70.1	61.5	49.9	34.7	20.3	10.1	7.2	6.5
65°	2187.7	519.2	73.8	59.3	51.4	39.0	24.6	12.3	5.0	2.2	1.4
67.5°	1526.7	320.4	61.5	48.4	42.0	28.2	15.2	5.0	2.2	0.0	0.0
70°	693.6	152.6	47.0	36.9	31.8	20.3	8.0	2.9	1.4	0.0	0.0
72.5°	215.5	80.3	33.3	26.7	21.7	13.0	4.4	2.2	1.4	0.0	0.0
75°	99.8	51.4	20.9	14.5	12.3	6.5	2.9	1.4	0.8	0.0	0.0
77.5°	74.5	39.8	12.3	8.0	6.5	4.4	2.2	1.4	0.8	0.0	0.0
80°	65.1	20.3	7.2	5.0	3.6	2.9	1.4	0.8	0.0	0.0	0.0
82.5°	58.6	10.1	4.4	2.9	2.2	1.4	0.8	0.8	0.0	0.0	0.0
85°	31.8	5.8	2.9	2.2	1.4	0.8	0.8	0.0	0.0	0.0	0.0
87.5°	5.8	2.9	2.2	1.4	1.4	0.8	0.8	0.8	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)