

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: P652282

Luminaire Tested: **GALN-SA3B-840-U-SL4-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652282  
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-SA3B-840-U-SL4-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 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: 11751.3 lumens  
Efficiency: N/A  
Efficacy: 97.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3

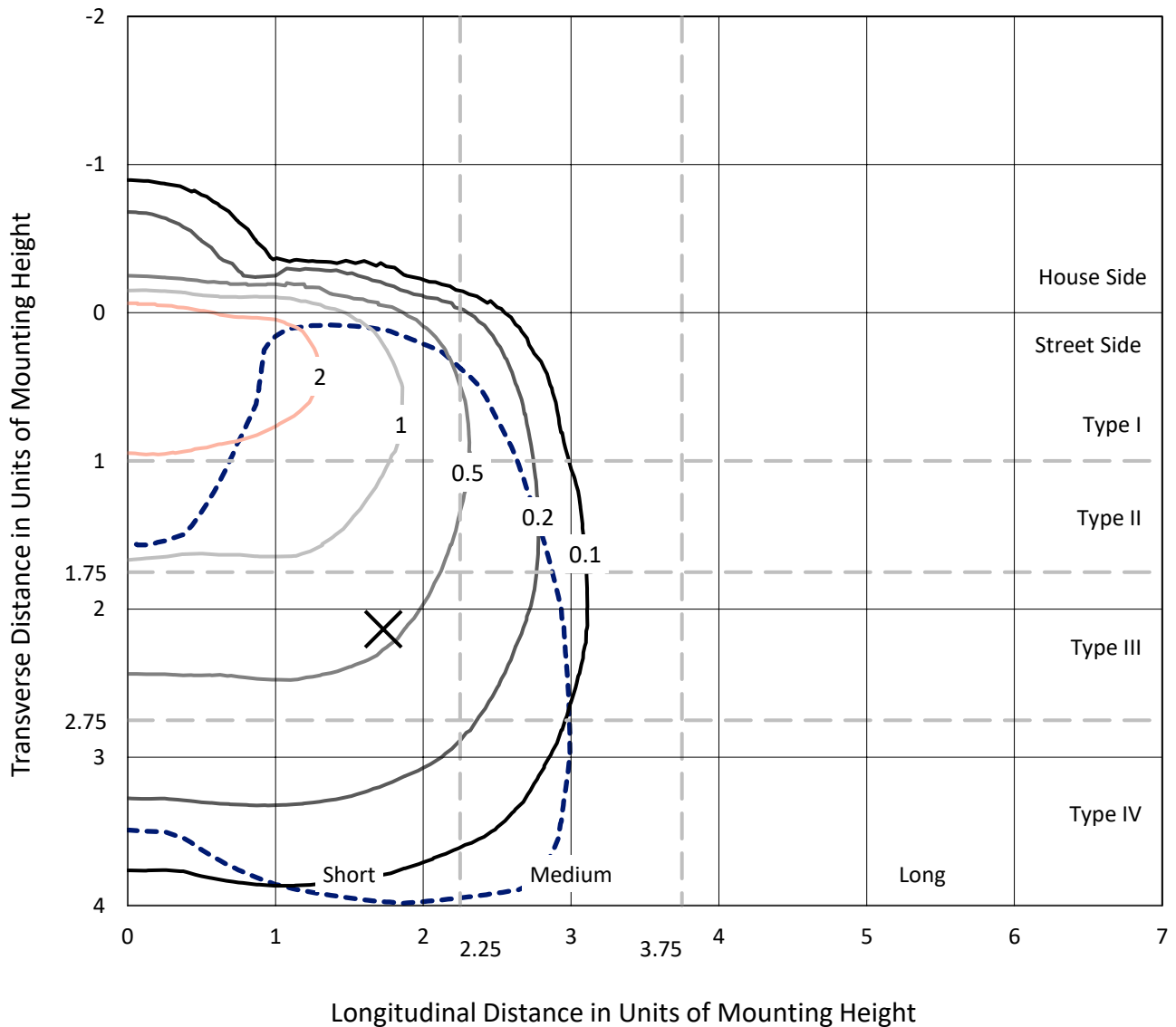
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

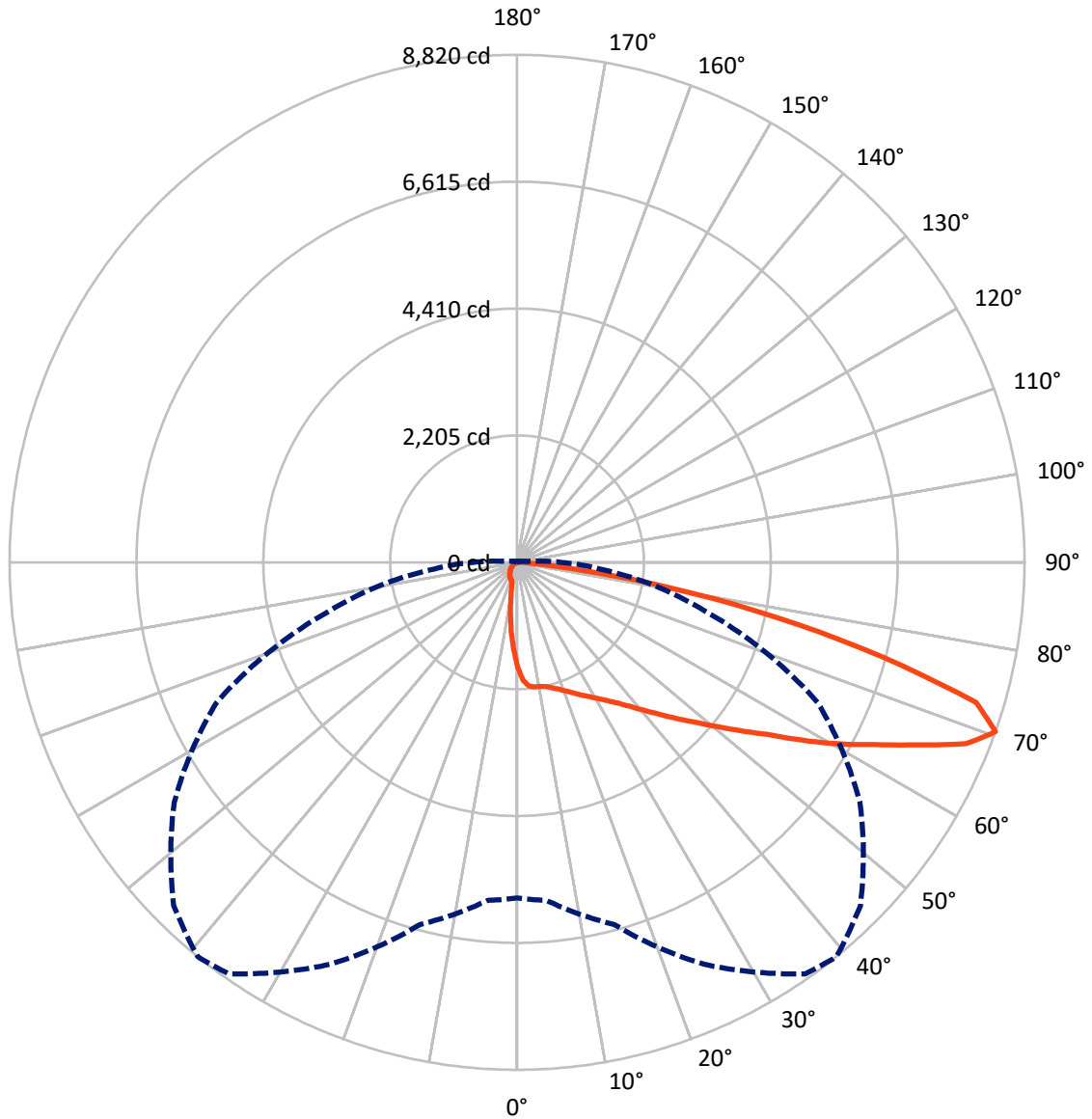
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 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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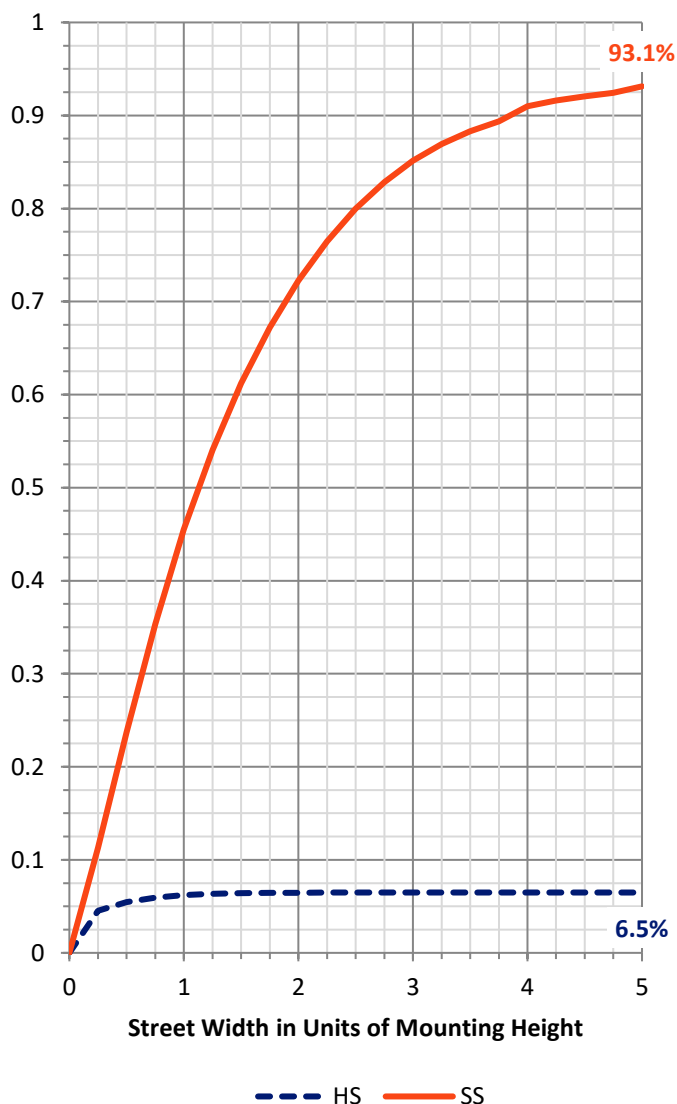
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	766.3	0.0	766.3
	% Fixture	6.5	0.0	6.5
<b>Street Side</b>	Lumens	10985.0	0.0	10985.0
	% Fixture	93.5	0.0	93.5
<b>Total</b>	Lumens	11751.3	0.0	11751.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	156.4	1.3
10°-20°	406.4	3.5
20°-30°	680.9	5.8
30°-40°	1055.9	9.0
40°-50°	1673.4	14.2
50°-60°	2452.9	20.9
60°-70°	3144.0	26.8
70°-80°	1975.6	16.8
80°-90°	205.8	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°	11751.3	100.0
0°-180°	11751.3	100.0

**Coefficient of Utilization**



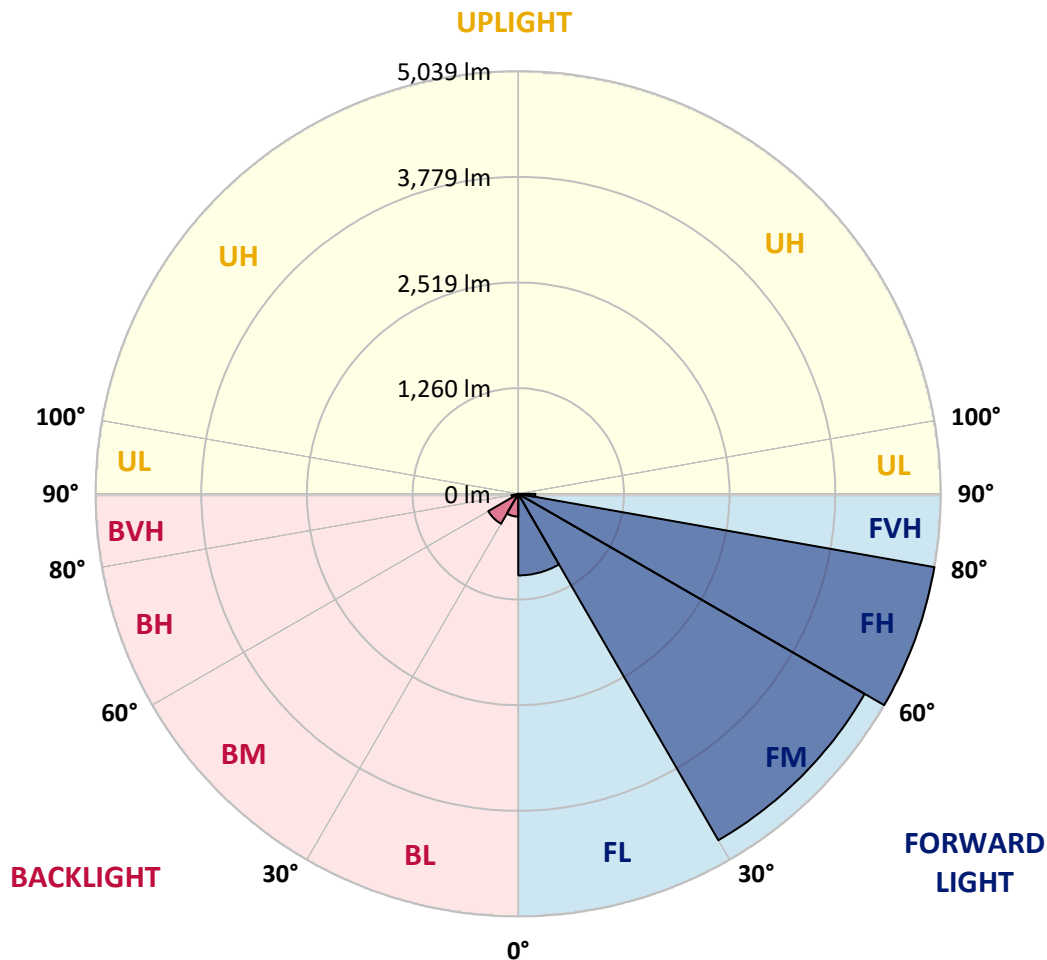
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	972.4	8.3			
FM (30°-60°)	4769.8	40.6			
FH (60°-80°)	5038.6	42.9			G3/7500
FVH (80°-90°)	204.3	1.7			G2/225
BL (0°-30°)	271.3	2.3	B1/500		
BM (30°-60°)	412.4	3.5	B1/1000		
BH (60°-80°)	81.0	0.7	B0/110		G0/110
BVH (80°-90°)	1.5	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-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	1833.6	1833.6	1833.6	1833.6	1833.6	1833.6	1833.6	1833.6	1833.6	1833.6	1833.6
2.5°	2118.6	2111.6	2102.1	2091.1	2059.4	2053.9	2035.0	1994.7	1946.5	1907.1	1852.6
5°	2219.0	2222.9	2215.8	2196.1	2173.1	2159.8	2136.1	2073.7	2011.3	1931.5	1842.3
7.5°	2241.9	2249.8	2241.1	2222.1	2200.0	2185.8	2166.8	2113.2	2040.5	1949.7	1827.3
10°	2239.5	2249.0	2243.5	2226.0	2207.9	2194.5	2174.0	2131.3	2072.9	1977.4	1832.0
12.5°	2235.5	2248.2	2247.4	2238.7	2223.7	2213.4	2200.8	2162.9	2108.4	2017.6	1858.1
15°	2224.5	2240.3	2254.5	2261.6	2262.4	2262.4	2246.6	2206.4	2154.2	2070.5	1892.1
17.5°	2229.2	2247.4	2282.9	2303.4	2317.7	2316.1	2299.5	2256.1	2198.5	2125.0	1927.6
20°	2258.4	2282.9	2332.7	2373.7	2387.9	2383.2	2361.1	2310.6	2245.0	2171.5	1962.3
22.5°	2330.3	2352.4	2414.8	2463.0	2473.2	2460.6	2429.0	2360.4	2301.1	2222.1	2004.2
25°	2437.7	2463.8	2521.4	2557.7	2557.7	2550.6	2506.4	2425.9	2364.2	2292.4	2058.7
27.5°	2568.0	2590.1	2647.0	2679.3	2660.4	2639.8	2595.7	2498.5	2439.3	2380.9	2124.2
30°	2699.9	2714.1	2774.1	2788.3	2768.6	2742.5	2695.2	2598.0	2545.9	2500.9	2219.0
32.5°	2824.7	2855.4	2905.2	2902.0	2875.2	2862.5	2819.1	2715.7	2686.4	2681.7	2351.6
35°	2949.4	2973.1	3017.3	3028.4	3004.6	3002.3	2970.7	2894.1	2894.9	2925.8	2558.5
37.5°	3056.8	3078.1	3130.2	3154.7	3159.5	3171.3	3158.6	3108.2	3180.0	3264.5	2832.6
40°	3146.9	3176.8	3243.1	3285.8	3334.7	3378.2	3380.6	3391.6	3536.2	3681.4	3190.2
42.5°	3217.1	3259.0	3355.3	3434.2	3546.4	3601.7	3645.9	3706.7	3949.9	4167.1	3611.9
45°	3308.7	3356.9	3476.9	3600.9	3776.2	3867.0	3928.6	4091.3	4436.4	4732.5	4044.7
47.5°	3460.3	3485.6	3608.0	3788.8	4019.4	4148.9	4268.9	4515.3	4958.3	5223.6	4404.7
50°	3655.4	3672.0	3764.3	4015.4	4313.9	4484.5	4703.3	4993.0	5500.1	5631.1	4608.5
52.5°	3871.0	3876.5	3946.0	4265.0	4644.0	4858.8	5103.6	5461.4	5941.4	5921.7	4743.5
55°	4121.2	4113.3	4172.6	4535.8	5034.9	5280.5	5565.6	5940.7	6324.4	6127.8	4820.9
57.5°	4407.9	4386.6	4444.3	4895.1	5535.5	5829.3	6119.1	6354.4	6621.4	6300.8	4858.0
60°	4708.0	4665.4	4734.1	5298.6	6125.4	6404.2	6645.1	6708.2	6934.0	6438.1	4794.0
62.5°	4947.3	4948.0	5075.9	5728.2	6731.9	6975.9	7103.8	7160.7	7203.3	6408.2	4457.6
65°	5320.8	5333.4	5537.9	6324.4	7433.9	7645.5	7733.2	7548.4	7215.2	6035.4	3952.3
67.5°	5706.1	5746.4	6120.7	7145.7	8244.9	8415.5	8302.5	7623.4	6893.0	5184.9	2996.8
70°	5831.7	5898.0	6514.7	7711.1	8731.3	8819.8	8437.6	7273.6	5762.2	3466.6	1508.2
72.5°	5343.6	5451.0	6288.1	7505.0	8421.0	8344.4	7549.2	6100.2	3663.2	1316.3	460.4
75°	3768.3	3815.7	5226.0	6225.8	6773.0	6555.8	5742.4	3932.5	1506.7	369.5	157.9
77.5°	1945.7	1922.9	3108.2	4130.7	4830.4	4605.3	3760.4	2035.7	571.0	154.0	97.9
80°	1006.0	1022.7	1344.8	2164.5	2948.6	2713.3	2004.9	943.7	304.0	85.3	75.0
82.5°	563.8	529.1	773.0	945.2	1378.7	1081.0	769.1	668.1	132.6	51.3	71.1
85°	102.7	107.4	424.0	510.9	478.5	304.0	247.9	446.2	38.7	28.4	49.8
87.5°	1.6	1.6	82.2	146.8	93.2	42.6	78.2	64.0	7.9	11.0	8.7
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°	1833.6	1833.6	1833.6	1833.6	1833.6	1833.6	1833.6	1833.6	1833.6	1833.6	1833.6
2.5°	1824.9	1794.9	1738.9	1683.6	1613.3	1555.7	1516.9	1476.7	1435.6	1438.8	1448.3
5°	1793.3	1741.2	1630.7	1513.8	1401.7	1300.6	1201.1	1111.9	1075.6	1042.3	1043.9
7.5°	1761.7	1688.3	1526.4	1343.2	1173.4	1001.3	876.5	773.9	719.4	678.4	666.5
10°	1747.5	1650.4	1430.9	1179.0	938.1	750.2	589.9	506.2	441.4	420.9	426.4
12.5°	1753.8	1631.5	1344.8	1030.5	743.9	522.8	410.7	368.0	353.8	351.4	349.9
15°	1765.7	1618.0	1260.3	866.2	546.5	388.5	345.1	337.2	335.6	334.0	334.8
17.5°	1781.5	1606.1	1170.3	712.2	419.3	339.6	326.9	322.9	322.2	322.2	322.2
20°	1797.3	1592.8	1070.0	574.9	349.9	320.6	312.7	310.3	309.6	309.6	308.7
22.5°	1815.5	1580.9	968.2	451.7	322.2	307.2	300.1	298.5	297.7	296.9	296.9
25°	1841.5	1565.9	859.9	369.5	304.8	294.5	287.5	285.9	285.1	281.9	282.7
27.5°	1876.3	1554.8	748.6	319.0	289.1	278.8	274.0	271.6	270.0	267.7	268.4
30°	1923.6	1545.3	630.2	291.4	270.9	262.1	257.4	255.8	254.2	251.9	251.9
32.5°	2005.8	1549.3	505.4	269.3	254.2	244.0	239.3	237.7	236.1	233.7	233.7
35°	2128.9	1572.2	404.3	250.4	234.6	224.3	219.5	219.5	217.1	214.0	213.2
37.5°	2330.3	1630.7	324.5	232.2	215.5	206.1	200.6	199.0	196.6	191.9	191.1
40°	2568.0	1721.4	273.2	214.0	198.2	188.7	184.0	179.2	172.9	168.2	167.4
42.5°	2866.5	1814.6	236.9	195.9	181.7	172.9	167.4	159.5	150.0	143.7	143.0
45°	3177.6	1899.9	212.4	179.2	165.8	158.7	152.4	139.8	127.9	120.0	119.3
47.5°	3409.8	1915.7	192.7	163.5	152.4	145.3	136.6	120.9	105.0	97.9	95.5
50°	3519.5	1839.1	172.2	147.7	139.0	131.1	120.0	101.8	84.5	75.8	74.3
52.5°	3558.3	1706.5	155.6	133.5	125.6	116.1	102.7	82.2	66.4	57.6	56.9
55°	3542.5	1539.0	140.5	120.0	109.8	98.7	85.3	65.5	48.9	41.9	40.3
57.5°	3459.5	1325.8	125.6	106.6	93.9	82.9	68.0	48.9	33.1	26.8	26.1
60°	3236.1	1035.3	110.6	91.6	79.7	68.0	53.7	34.7	20.5	15.0	15.0
62.5°	2858.6	768.3	96.4	76.6	67.1	54.5	37.9	22.1	11.0	7.9	7.1
65°	2388.8	567.0	80.6	64.8	56.1	42.6	26.8	13.5	5.6	2.4	1.6
67.5°	1666.9	349.9	67.1	52.9	45.8	30.8	16.6	5.6	2.4	0.0	0.0
70°	757.3	166.6	51.3	40.3	34.7	22.1	8.7	3.2	1.6	0.0	0.0
72.5°	235.3	87.6	36.3	29.2	23.7	14.2	4.7	2.4	1.6	0.0	0.0
75°	109.0	56.1	22.9	15.8	13.5	7.1	3.2	1.6	0.8	0.0	0.0
77.5°	81.3	43.4	13.5	8.7	7.1	4.7	2.4	1.6	0.8	0.0	0.0
80°	71.1	22.1	7.9	5.6	4.0	3.2	1.6	0.8	0.0	0.0	0.0
82.5°	64.0	11.0	4.7	3.2	2.4	1.6	0.8	0.8	0.0	0.0	0.0
85°	34.7	6.3	3.2	2.4	1.6	0.8	0.8	0.0	0.0	0.0	0.0
87.5°	6.3	3.2	2.4	1.6	1.6	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)