

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: P647895

Luminaire Tested: **GALN-SA4A-835-U-T2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647895  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA4A-835-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10589.3 lumens  
Efficiency: N/A  
Efficacy: 87.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2

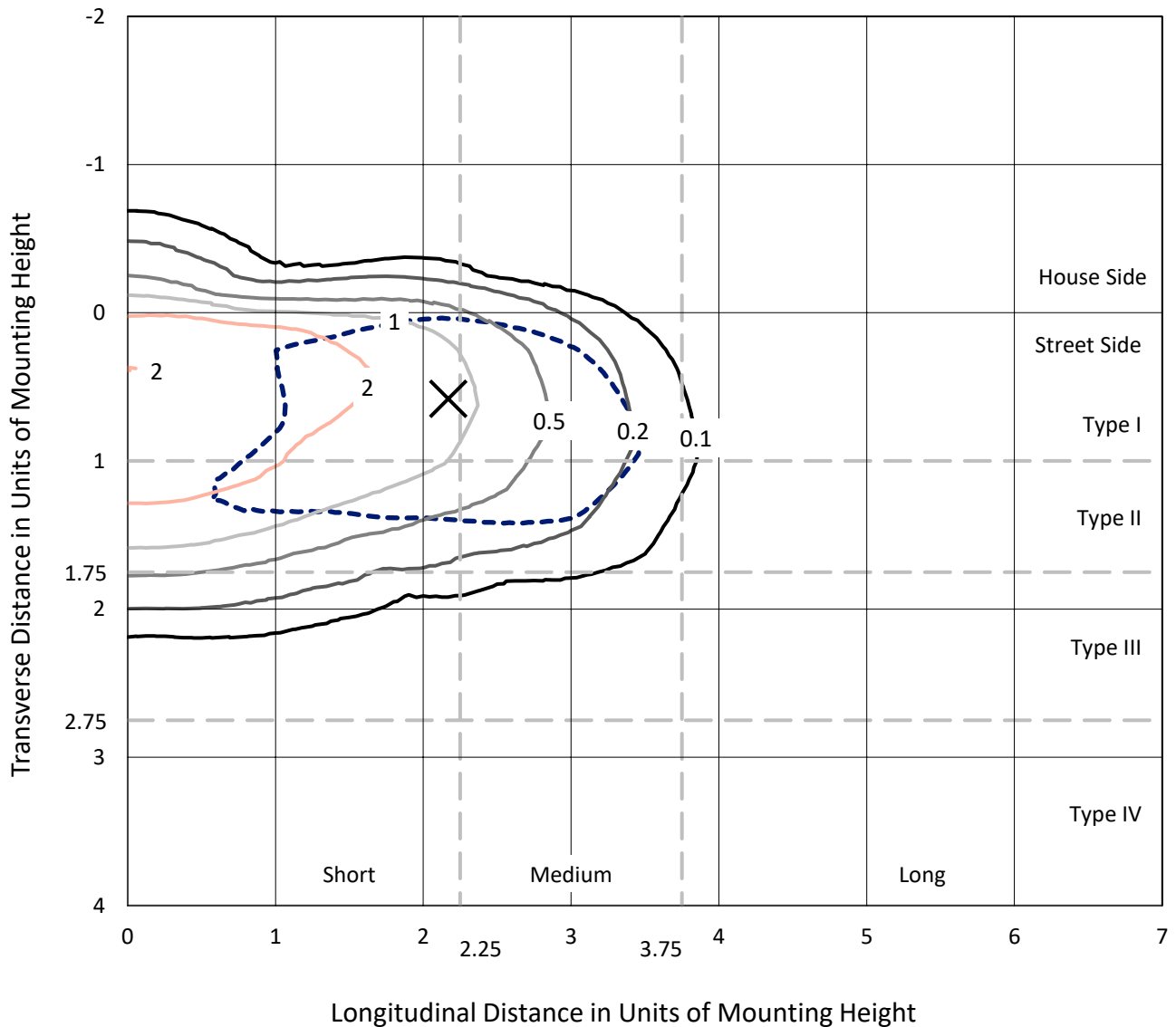
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

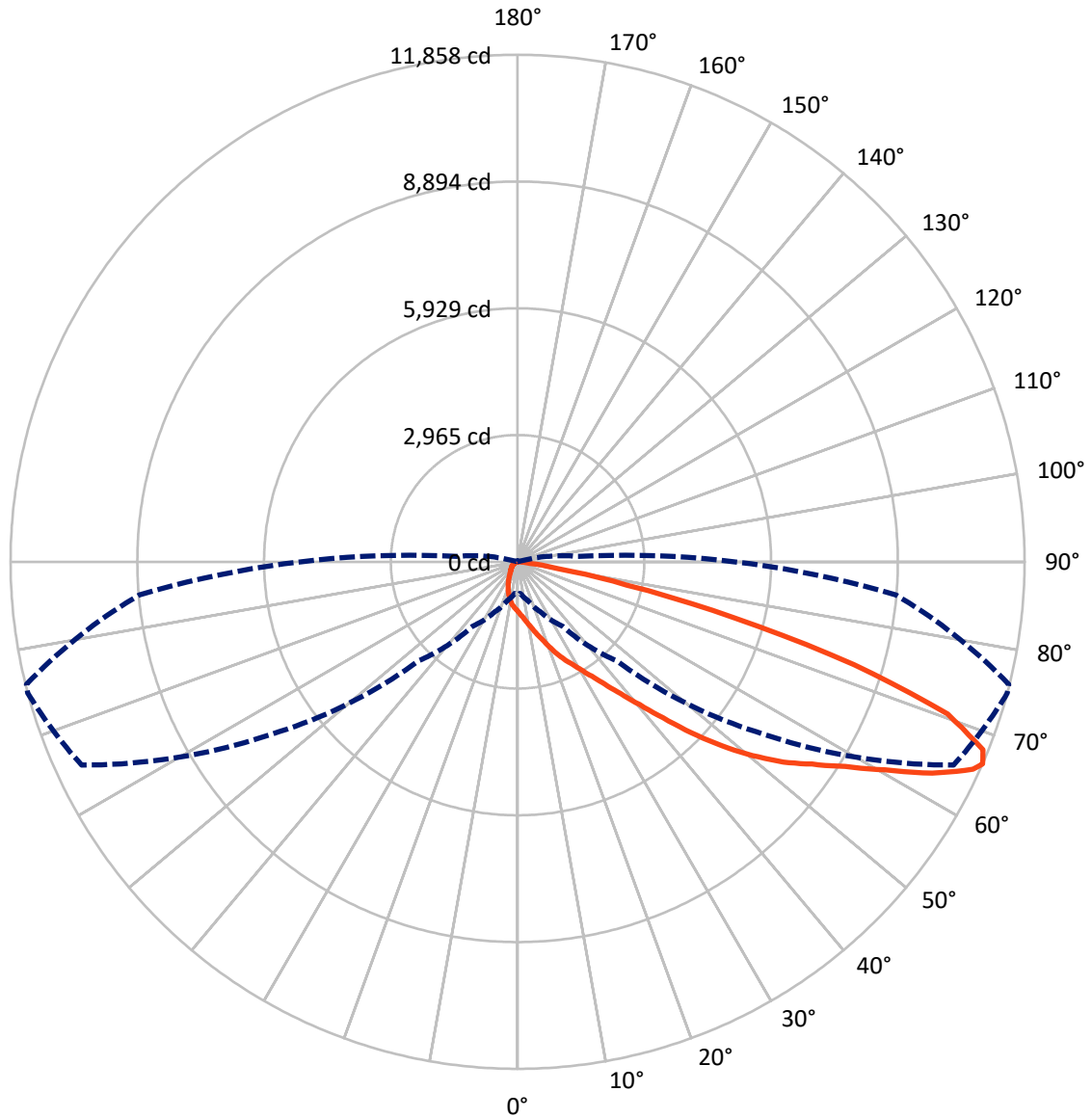
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 66-Deg Vertical

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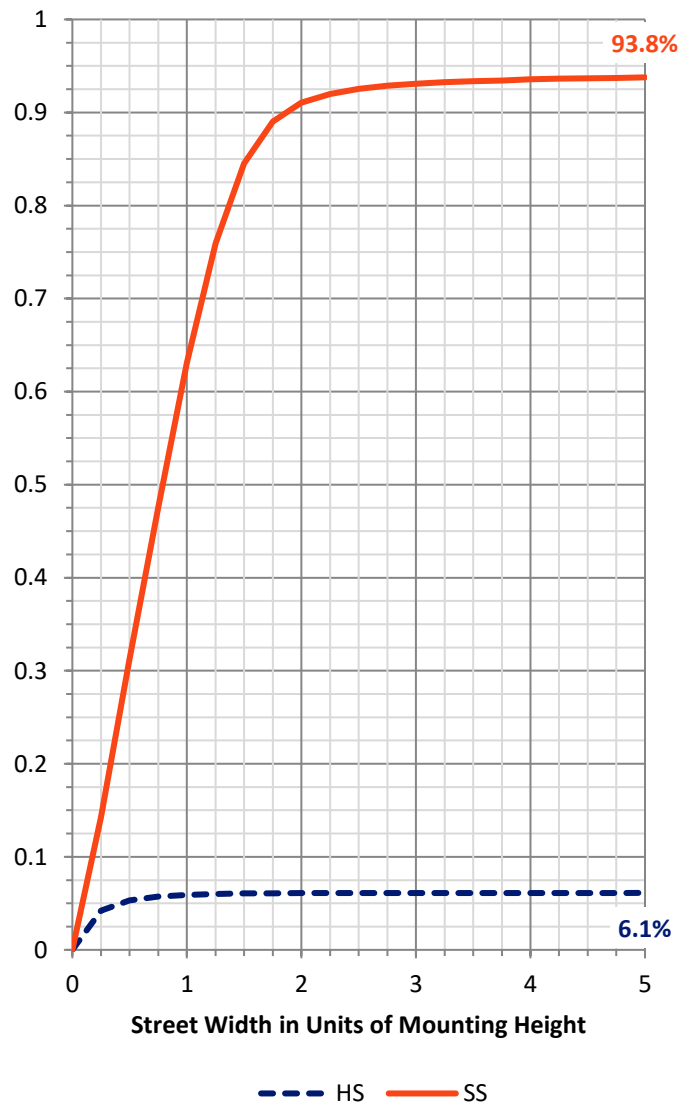
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	653.7	0.0	653.7
	% Fixture	6.2	0.0	6.2
<b>Street Side</b>	Lumens	9935.6	0.0	9935.6
	% Fixture	93.8	0.0	93.8
<b>Total</b>	Lumens	10589.3	0.0	10589.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	111.7	1.1
10°-20°	328.7	3.1
20°-30°	567.6	5.4
30°-40°	1023.9	9.7
40°-50°	1849.7	17.5
50°-60°	2883.7	27.2
60°-70°	2739.4	25.9
70°-80°	1026.7	9.7
80°-90°	57.9	0.5
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°	10589.3	100.0
0°-180°	10589.3	100.0

**Coefficient of Utilization**



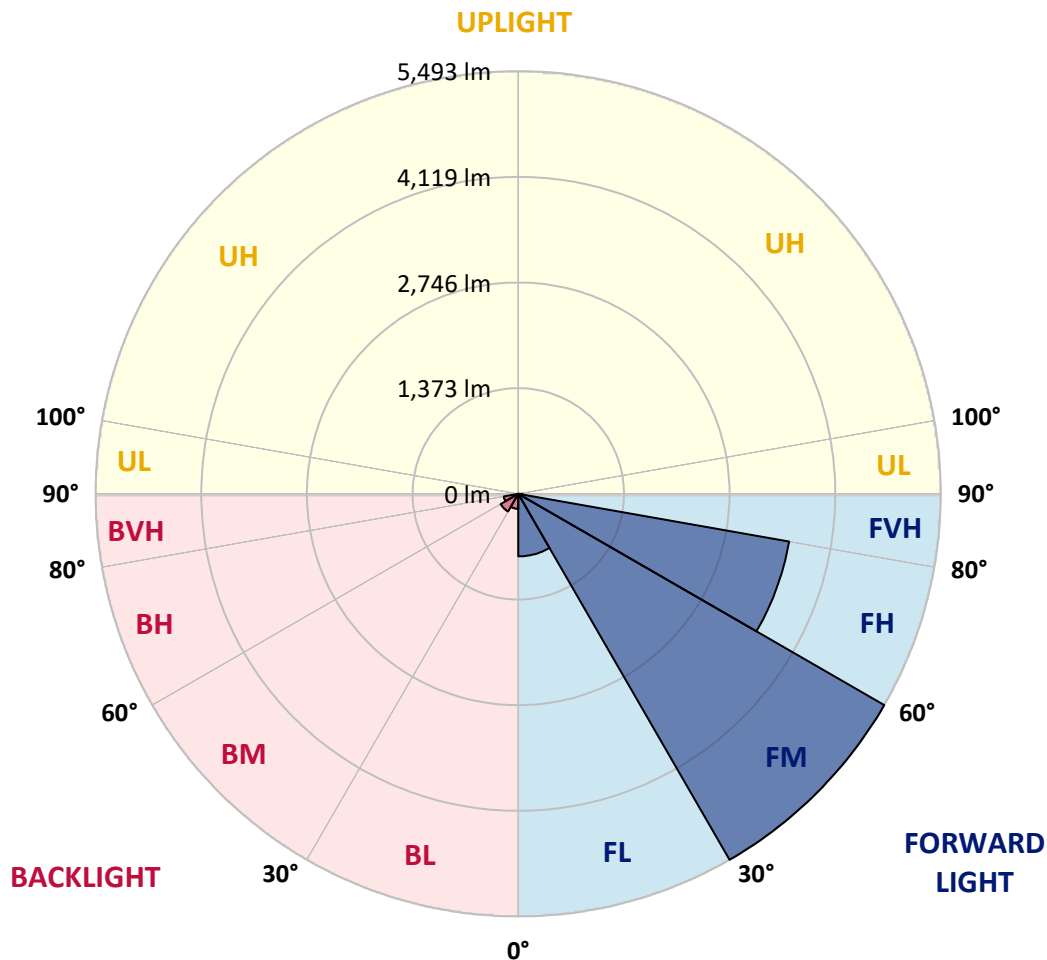
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	812.8	7.7			
FM (30°-60°)	5492.7	51.9			
FH (60°-80°)	3575.1	33.8			G2/5000
FVH (80°-90°)	54.9	0.5			G1/100
BL (0°-30°)	195.2	1.8	B1/500		
BM (30°-60°)	264.6	2.5	B1/1000		
BH (60°-80°)	190.9	1.8	B1/500		G1/500
BVH (80°-90°)	3.0	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 II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1158.1	1158.1	1158.1	1158.1	1158.1	1158.1	1158.1	1158.1	1158.1	1158.1	1158.1
2.5°	1383.6	1366.3	1371.8	1364.0	1346.0	1319.4	1295.9	1262.2	1228.5	1223.0	1185.5
5°	1566.0	1561.3	1555.0	1532.3	1519.8	1479.1	1430.5	1372.6	1302.9	1290.4	1222.3
7.5°	1690.5	1688.1	1691.3	1679.5	1668.6	1631.8	1580.1	1501.0	1393.0	1385.9	1272.4
10°	1731.2	1737.5	1749.2	1768.0	1785.2	1773.5	1734.3	1635.7	1509.6	1489.3	1329.5
12.5°	1707.7	1714.8	1743.0	1793.1	1848.7	1880.8	1865.1	1793.1	1633.3	1616.9	1393.7
15°	1647.4	1656.0	1696.0	1773.5	1872.9	1963.8	2002.9	1951.2	1777.4	1750.8	1471.3
17.5°	1558.2	1570.7	1627.9	1730.4	1866.7	2023.3	2133.7	2116.4	1930.9	1905.8	1555.8
20°	1490.8	1500.2	1548.8	1666.2	1840.0	2056.2	2258.2	2306.7	2120.4	2077.3	1655.3
22.5°	1535.5	1538.6	1555.0	1625.5	1792.3	2064.8	2367.8	2504.8	2321.6	2283.2	1758.6
25°	1753.9	1722.6	1706.2	1690.5	1782.1	2056.9	2467.2	2711.5	2522.0	2481.3	1861.2
27.5°	2098.4	2084.3	2001.3	1890.2	1869.0	2067.1	2533.0	2907.3	2710.7	2666.9	1961.4
30°	2473.5	2449.2	2398.3	2235.5	2071.8	2139.2	2580.8	3097.5	2933.9	2876.0	2053.0
32.5°	2818.0	2833.7	2757.7	2590.2	2400.7	2292.6	2642.6	3305.0	3189.9	3117.9	2159.5
35°	3219.7	3251.0	3134.3	2973.8	2752.2	2569.8	2763.2	3539.1	3514.8	3424.0	2323.9
37.5°	3627.6	3646.4	3575.1	3349.7	3150.0	2922.2	2990.3	3828.0	3914.9	3837.4	2520.5
40°	3970.5	3996.4	3943.9	3743.4	3530.5	3330.1	3319.9	4142.8	4391.0	4311.1	2813.3
42.5°	4232.8	4252.4	4254.0	4112.2	3920.4	3829.6	3740.3	4544.5	4987.6	4895.2	3153.1
45°	4564.0	4592.2	4575.8	4479.5	4336.2	4319.7	4273.5	5029.9	5701.7	5585.1	3593.9
47.5°	5076.1	5094.9	5054.2	4940.7	4795.0	4820.9	4793.4	5574.1	6429.9	6329.7	4050.4
50°	5431.6	5462.9	5520.9	5566.3	5460.6	5365.0	5283.6	6082.3	7121.3	7031.3	4517.0
52.5°	5427.7	5479.4	5662.6	5891.2	6122.2	6093.2	5859.1	6643.7	7781.4	7670.2	4955.5
55°	5062.0	5162.2	5431.6	5837.2	6476.9	6795.6	6689.1	7293.6	8351.4	8276.2	5463.7
57.5°	4307.2	4368.3	4742.6	5309.4	6278.8	7126.0	7650.6	8174.4	9035.0	8999.7	6253.0
60°	2897.1	2924.5	3406.0	4106.8	5345.5	6796.4	8355.3	9240.1	9876.7	9859.5	7174.6
62.5°	1660.0	1671.7	2020.9	2612.1	3803.7	5759.7	8414.8	10554.7	10885.9	10895.3	8241.0
65°	893.4	899.7	1181.5	1533.1	2314.5	4105.2	7566.8	11275.0	11701.8	11719.8	8901.8
66°	771.3	741.5	940.4	1306.8	1841.6	3267.5	7030.5	11249.2	11858.4	11838.8	8878.4
67.5°	586.5	613.1	750.9	1004.6	1364.8	2323.2	5804.3	10748.9	11739.4	11678.3	8517.4
70°	419.7	430.6	534.8	716.4	929.4	1274.7	3709.0	8927.7	10669.8	10587.6	7420.4
72.5°	270.9	282.7	379.0	518.3	671.8	696.1	2076.5	6450.3	8226.1	8214.4	5588.2
75°	193.4	204.4	250.6	371.1	505.0	430.6	999.9	4347.1	5229.6	5194.3	3456.9
77.5°	140.2	145.6	167.6	242.7	361.0	308.5	463.5	2321.6	2603.5	2726.4	1527.6
80°	80.6	85.3	116.7	148.0	244.3	210.6	221.6	931.8	960.7	914.5	477.6
82.5°	39.9	45.4	69.7	101.0	152.7	141.7	101.8	280.3	296.0	288.1	120.6
85°	9.4	11.7	39.2	66.6	74.4	63.4	49.3	82.2	101.8	99.4	46.2
87.5°	0.8	1.6	14.1	11.7	12.5	21.1	17.2	21.1	32.9	30.5	16.4
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°	1158.1	1158.1	1158.1	1158.1	1158.1	1158.1	1158.1	1158.1	1158.1	1158.1	1158.1
2.5°	1168.2	1153.4	1110.3	1068.0	1032.8	996.0	962.3	942.7	934.9	926.3	930.2
5°	1184.7	1148.7	1061.7	986.6	913.0	850.3	800.2	768.1	752.5	750.1	746.2
7.5°	1206.6	1144.7	1010.1	892.6	796.3	726.6	669.5	623.3	609.2	596.6	586.5
10°	1233.2	1137.7	945.9	794.0	691.4	603.7	528.5	473.7	445.5	437.7	443.2
12.5°	1261.4	1124.4	878.5	703.1	584.9	472.9	403.2	375.8	368.0	364.9	365.7
15°	1289.6	1107.9	808.1	615.4	465.9	377.4	345.3	338.3	335.1	333.6	332.0
17.5°	1315.4	1081.3	729.0	530.1	377.4	322.6	310.9	304.6	298.3	296.0	292.1
20°	1346.0	1050.8	657.7	434.6	319.5	292.1	278.0	266.2	256.8	250.6	249.8
22.5°	1374.9	1011.6	583.3	360.2	291.3	262.3	239.6	227.1	216.1	208.3	210.6
25°	1390.6	963.9	516.8	314.0	265.4	232.6	207.5	191.8	180.1	176.2	175.4
27.5°	1390.6	905.1	451.8	287.4	241.9	205.9	180.1	165.2	157.4	151.9	152.7
30°	1379.6	840.2	391.5	267.0	221.6	182.4	158.2	144.9	138.6	134.7	133.9
32.5°	1371.0	778.3	339.8	247.4	200.4	162.1	140.9	130.8	124.5	120.6	120.6
35°	1384.3	725.1	299.9	227.9	180.9	146.4	127.6	118.2	112.0	108.8	108.1
37.5°	1419.6	676.5	269.4	206.7	162.9	133.1	118.2	107.3	101.0	97.1	95.5
40°	1506.5	649.1	246.6	187.1	145.6	122.1	107.3	97.1	89.3	85.3	84.6
42.5°	1645.9	649.9	224.7	169.1	132.3	112.8	97.9	86.1	77.5	73.6	72.8
45°	1855.7	679.6	207.5	151.9	120.6	102.6	87.7	75.2	67.3	63.4	63.4
47.5°	2107.1	737.6	192.6	137.0	109.6	93.2	77.5	65.0	57.2	54.0	54.0
50°	2379.5	812.8	177.7	121.4	100.2	83.0	66.6	56.4	50.1	47.8	47.8
52.5°	2657.5	903.6	162.9	108.8	90.0	72.0	57.2	50.1	44.6	43.1	42.3
55°	3022.4	1019.5	147.2	95.5	79.1	61.9	50.9	43.8	37.6	35.2	34.5
57.5°	3583.7	1194.1	130.0	83.8	65.0	51.7	43.8	36.8	29.8	25.8	25.1
60°	4261.0	1407.1	112.0	73.6	52.5	42.3	35.2	28.2	21.9	17.2	16.4
62.5°	4895.2	1542.5	94.7	61.9	41.5	32.1	25.1	21.1	15.7	11.0	10.2
65°	5175.6	1497.1	78.3	50.1	32.9	22.7	16.4	14.9	9.4	4.7	3.9
66°	5082.4	1429.8	72.0	45.4	29.8	19.6	14.1	12.5	7.0	2.3	2.3
67.5°	4807.5	1270.8	62.6	39.2	25.8	15.7	11.0	9.4	3.9	0.8	0.0
70°	4119.3	1028.1	49.3	29.0	18.8	11.0	6.3	4.7	2.3	0.0	0.0
72.5°	3164.1	765.8	39.2	21.9	13.3	6.3	3.1	1.6	2.3	0.0	0.0
75°	1938.7	437.7	30.5	16.4	8.6	3.9	2.3	0.0	2.3	0.8	0.0
77.5°	860.5	196.5	20.4	11.0	6.3	3.1	1.6	0.0	1.6	0.8	0.0
80°	217.7	64.2	11.7	7.8	4.7	2.3	0.8	0.0	1.6	1.6	0.8
82.5°	59.5	23.5	8.6	6.3	3.9	2.3	0.8	0.0	1.6	1.6	1.6
85°	23.5	11.0	7.8	6.3	4.7	2.3	0.8	0.0	1.6	1.6	1.6
87.5°	11.0	7.8	7.8	7.0	5.5	2.3	0.8	0.0	1.6	0.8	1.6
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)