

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: P527485

Luminaire Tested: **GALN-SA2C-730-U-T2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P527485  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2C-730-U-T2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7595 lumens  
Efficiency: N/A  
Efficacy: 70.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

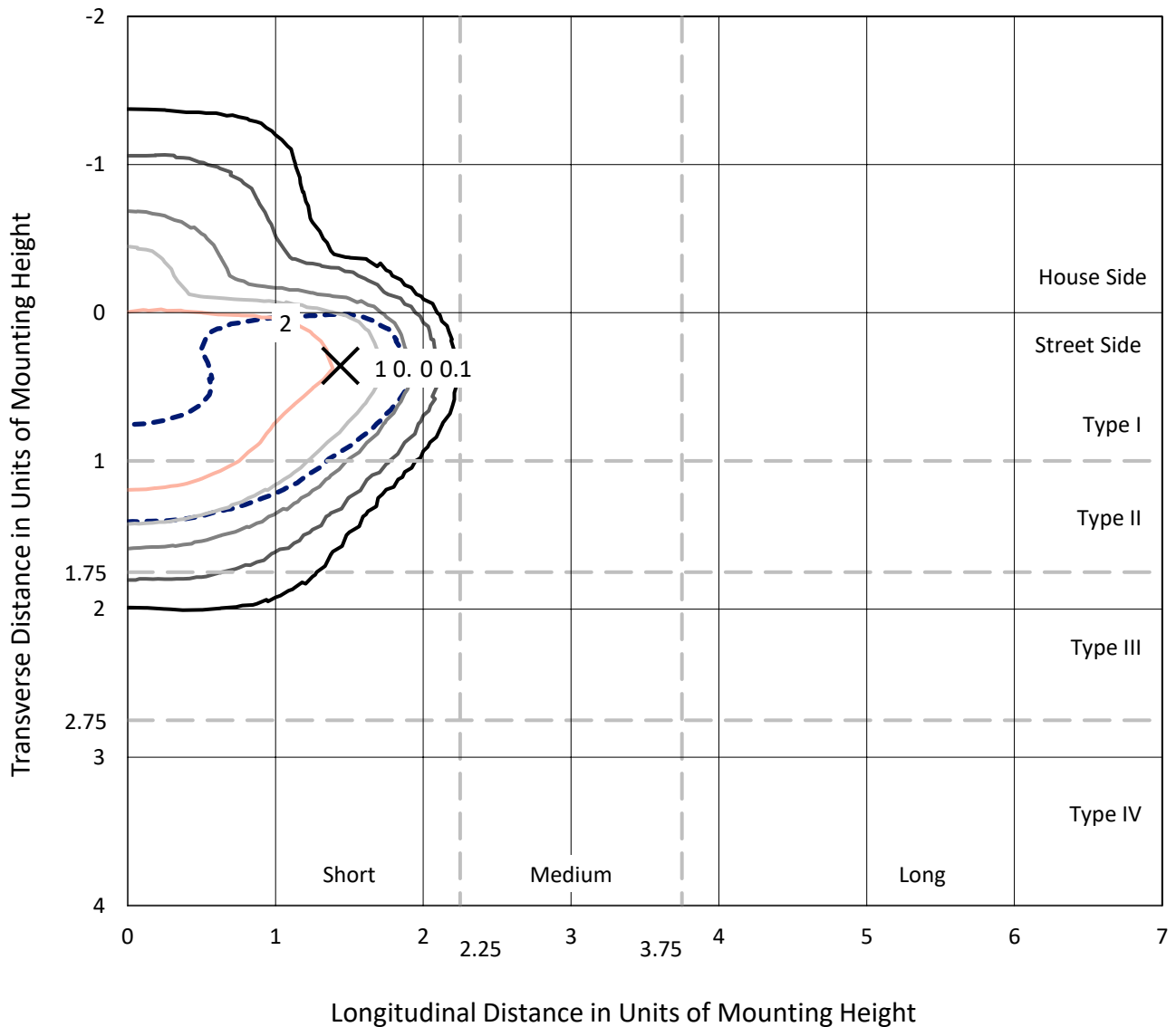
Input Watts (W): 108  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

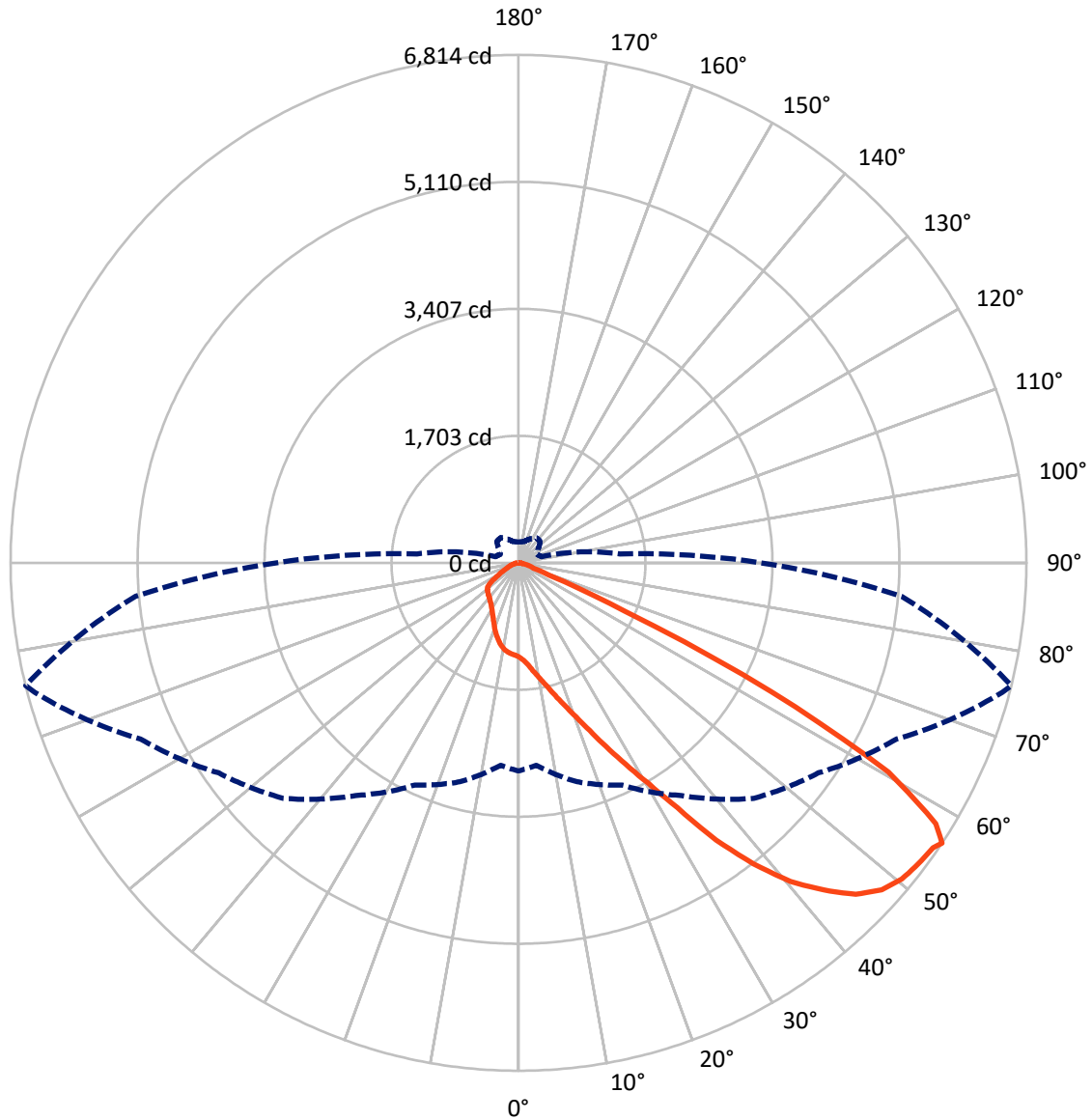
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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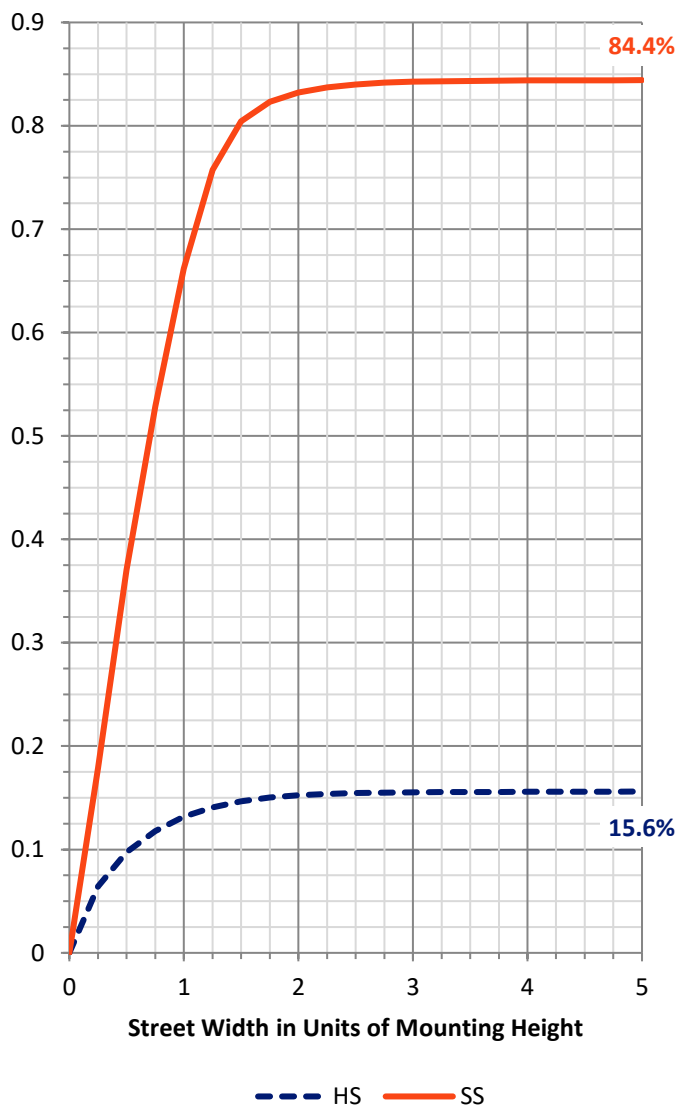
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1193.1	0.0	1193.1
	% Fixture	15.7	0.0	15.7
<b>Street Side</b>	Lumens	6401.9	0.0	6401.9
	% Fixture	84.3	0.0	84.3
<b>Total</b>	Lumens	7595.0	0.0	7595.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	127.4	1.7
10°-20°	409.1	5.4
20°-30°	741.9	9.8
30°-40°	1279.4	16.8
40°-50°	2078.4	27.4
50°-60°	2190.7	28.8
60°-70°	669.4	8.8
70°-80°	85.8	1.1
80°-90°	13.0	0.2
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°	7595.0	100.0
0°-180°	7595.0	100.0

**Coefficient of Utilization**

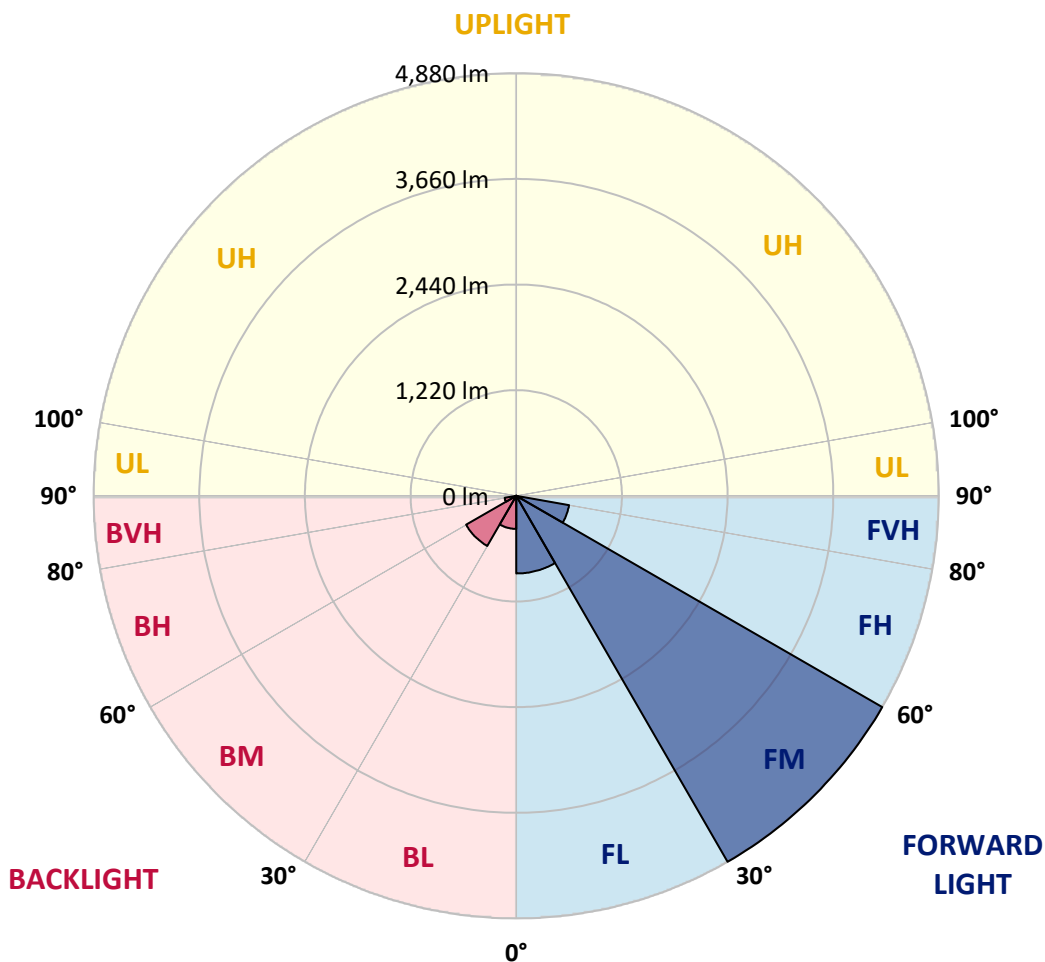


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	896.7	11.8			
FM (30°-60°)	4879.8	64.2			
FH (60°-80°)	619.0	8.2			G0/660
FVH (80°-90°)	6.4	0.1			G0/10
BL (0°-30°)	381.7	5.0	B1/500		
BM (30°-60°)	668.7	8.8	B1/1000		
BH (60°-80°)	136.1	1.8	B1/500		G1/500
BVH (80°-90°)	6.7	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1264.2	1264.2	1264.2	1264.2	1264.2	1264.2	1264.2	1264.2	1264.2	1264.2	1264.2
2.5°	1456.0	1422.4	1423.8	1421.0	1416.8	1401.4	1355.2	1348.2	1317.4	1309.0	1281.0
5°	1631.0	1601.6	1618.4	1593.2	1569.4	1555.4	1479.8	1444.8	1395.8	1377.6	1338.4
7.5°	1740.2	1726.2	1720.6	1722.0	1699.6	1664.6	1631.0	1554.0	1488.2	1474.2	1391.6
10°	1793.4	1785.0	1793.4	1789.2	1799.0	1803.2	1744.4	1698.2	1601.6	1577.8	1449.0
12.5°	1806.0	1822.8	1829.8	1848.0	1871.8	1912.4	1908.2	1845.2	1716.4	1701.0	1537.2
15°	1836.8	1850.8	1843.8	1873.2	1918.0	1986.6	2023.0	2013.2	1874.6	1846.6	1639.4
17.5°	1864.8	1839.6	1863.4	1922.2	1967.0	2072.0	2160.2	2200.8	2046.8	2014.6	1733.2
20°	1902.6	1895.6	1891.4	1920.8	2000.6	2140.6	2315.6	2389.8	2240.0	2206.4	1867.6
22.5°	2017.4	2018.8	2016.0	1972.6	2030.0	2188.2	2451.4	2634.8	2471.0	2443.0	2020.2
25°	2168.6	2150.4	2136.4	2101.4	2094.4	2231.6	2588.6	2934.4	2748.2	2728.6	2185.4
27.5°	2328.2	2328.2	2286.2	2254.0	2209.2	2339.4	2714.6	3225.6	3082.8	3056.2	2329.6
30°	2501.8	2511.6	2506.0	2437.4	2409.4	2457.0	2843.4	3598.0	3466.4	3432.8	2567.6
32.5°	2758.0	2737.0	2760.8	2703.4	2620.8	2662.8	3046.4	3931.2	3964.8	3917.2	2879.8
35°	3096.8	3084.2	3068.8	2975.0	2877.0	2910.6	3333.4	4341.4	4590.6	4566.8	3194.8
37.5°	3400.6	3393.6	3381.0	3316.6	3203.2	3243.8	3659.6	4768.4	5201.0	5122.6	3640.0
40°	3719.8	3757.6	3717.0	3659.6	3556.0	3645.6	4043.2	5021.8	5714.8	5619.6	3980.2
42.5°	4152.4	4123.0	4141.2	4036.2	3980.2	4078.2	4428.2	5275.2	6113.8	6000.4	4341.4
45°	4613.0	4614.4	4565.4	4531.8	4386.2	4492.6	4664.8	5415.2	6431.6	6343.4	4614.4
47.5°	4908.4	4907.0	4960.2	5013.4	4863.6	4758.6	4825.8	5548.2	6595.4	6554.8	4713.8
50°	4862.2	4876.2	4944.8	5143.6	5222.0	5080.6	4977.0	5509.0	6669.6	6665.4	4799.2
52.5°	4229.4	4275.6	4390.4	4677.4	5072.2	5247.2	5135.2	5581.8	6706.0	6713.0	4926.6
55°	3220.0	3245.2	3463.6	3812.2	4249.0	4848.2	5072.2	5639.2	6734.0	6746.6	5080.6
56°	2793.0	2725.8	3040.8	3288.6	3810.8	4466.0	4912.6	5594.4	6717.2	6813.8	5157.6
57.5°	2108.4	2063.6	2318.4	2627.8	3130.4	3822.0	4417.0	5383.0	6603.8	6602.4	5047.0
60°	1282.4	1237.6	1433.6	1615.6	1897.0	2353.4	2984.8	4286.8	5583.2	5700.8	4086.6
62.5°	763.0	791.0	984.2	1094.8	1185.8	1233.4	1544.2	2548.0	3725.4	3809.4	2535.4
65°	508.2	518.0	663.6	845.6	886.2	705.6	628.6	1031.8	1615.6	1563.8	1045.8
67.5°	313.6	336.0	445.2	635.6	704.2	515.2	298.2	385.0	445.2	445.2	302.4
70°	190.4	201.6	296.8	432.6	483.0	331.8	217.0	217.0	214.2	210.0	180.6
72.5°	91.0	98.0	151.2	222.6	226.8	175.0	168.0	183.4	179.2	177.8	149.8
75°	39.2	42.0	53.2	70.0	79.8	74.2	102.2	131.6	135.8	131.6	107.8
77.5°	12.6	14.0	19.6	25.2	26.6	32.2	43.4	54.6	63.0	58.8	53.2
80°	1.4	2.8	5.6	12.6	19.6	25.2	32.2	36.4	40.6	40.6	37.8
82.5°	1.4	1.4	5.6	11.2	18.2	23.8	30.8	35.0	40.6	42.0	39.2
85°	0.0	1.4	4.2	9.8	15.4	15.4	14.0	14.0	9.8	9.8	9.8
87.5°	0.0	0.0	1.4	1.4	1.4	2.8	2.8	2.8	2.8	2.8	2.8
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°	1264.2	1264.2	1264.2	1264.2	1264.2	1264.2	1264.2	1264.2	1264.2	1264.2	1264.2
2.5°	1275.4	1272.6	1234.8	1211.0	1198.4	1173.2	1157.8	1146.6	1138.2	1128.4	1129.8
5°	1292.2	1282.4	1219.4	1176.0	1124.2	1096.2	1072.4	1052.8	1040.2	1037.4	1031.8
7.5°	1339.8	1288.0	1192.8	1114.4	1048.6	1020.6	999.6	987.0	992.6	980.0	989.8
10°	1376.2	1299.2	1160.6	1047.2	981.4	960.4	949.2	959.0	973.0	967.4	960.4
12.5°	1421.0	1310.4	1108.8	982.8	921.2	905.8	925.4	943.6	971.6	982.8	968.8
15°	1471.4	1323.0	1043.0	908.6	869.4	882.0	915.6	947.8	975.8	989.8	998.2
17.5°	1533.0	1318.8	978.6	849.8	820.4	856.8	897.4	926.8	968.8	989.8	984.2
20°	1590.4	1304.8	907.2	791.0	792.4	826.0	859.6	907.2	929.6	957.6	947.8
22.5°	1645.0	1279.6	833.0	750.4	750.4	802.2	819.0	849.8	869.4	883.4	882.0
25°	1722.0	1232.0	771.4	711.2	728.0	761.6	775.6	785.4	777.0	788.2	789.6
27.5°	1776.6	1183.0	721.0	676.2	707.0	732.2	728.0	722.4	702.8	687.4	697.2
30°	1835.4	1125.6	677.6	652.4	669.2	691.6	674.8	658.0	627.2	602.0	603.4
32.5°	1919.4	1099.0	639.8	624.4	646.8	649.6	631.4	606.2	575.4	551.6	550.2
35°	2076.2	1082.2	607.6	606.2	610.4	611.8	593.6	562.8	550.2	530.6	537.6
37.5°	2233.0	1073.8	585.2	579.6	578.2	579.6	558.6	529.2	553.0	551.6	554.4
40°	2433.2	1111.6	553.0	546.0	547.4	547.4	520.8	512.4	554.4	558.6	560.0
42.5°	2636.2	1159.2	532.0	509.6	515.2	515.2	501.2	491.4	520.8	492.8	488.6
45°	2812.6	1229.2	509.6	473.2	487.2	494.2	490.0	473.2	455.0	407.4	407.4
47.5°	2870.0	1290.8	483.0	438.2	449.4	480.2	467.6	432.6	400.4	361.2	358.4
50°	2970.8	1358.0	462.0	397.6	421.4	459.2	446.6	411.6	375.2	347.2	348.6
52.5°	3074.4	1435.0	422.8	350.0	379.4	442.4	442.4	403.2	347.2	327.6	324.8
55°	3229.8	1432.2	352.8	287.0	338.8	417.2	424.2	361.2	310.8	295.4	295.4
56°	3252.2	1367.8	317.8	268.8	320.6	410.2	411.6	350.0	296.8	280.0	280.0
57.5°	3084.2	1234.8	278.6	246.4	298.2	397.6	399.0	340.2	285.6	261.8	259.0
60°	2373.0	835.8	232.4	219.8	270.2	358.4	365.4	309.4	250.6	232.4	231.0
62.5°	1339.8	463.4	204.4	198.8	232.4	305.2	326.2	270.2	212.8	203.0	205.8
65°	611.8	254.8	172.2	161.0	187.6	235.2	263.2	222.6	175.0	163.8	163.8
67.5°	224.0	173.6	147.0	127.4	131.6	152.6	170.8	144.2	116.2	99.4	103.6
70°	159.6	145.6	128.8	110.6	102.2	99.4	98.0	81.2	57.4	44.8	47.6
72.5°	128.8	120.4	107.8	93.8	79.8	67.2	57.4	42.0	26.6	18.2	16.8
75°	92.4	88.2	78.4	67.2	56.0	47.6	39.2	26.6	14.0	7.0	7.0
77.5°	47.6	47.6	46.2	42.0	35.0	28.0	22.4	15.4	8.4	2.8	2.8
80°	36.4	39.2	40.6	36.4	32.2	25.2	18.2	11.2	5.6	1.4	1.4
82.5°	35.0	40.6	43.4	37.8	32.2	23.8	18.2	11.2	5.6	1.4	1.4
85°	8.4	8.4	12.6	14.0	18.2	19.6	15.4	9.8	4.2	1.4	1.4
87.5°	2.8	2.8	2.8	2.8	2.8	2.8	1.4	1.4	1.4	1.4	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)