

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: P648343

Luminaire Tested: **GALN-SA3B-835-U-T3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648343  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3B-835-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9764.8 lumens  
Efficiency: N/A  
Efficacy: 80.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

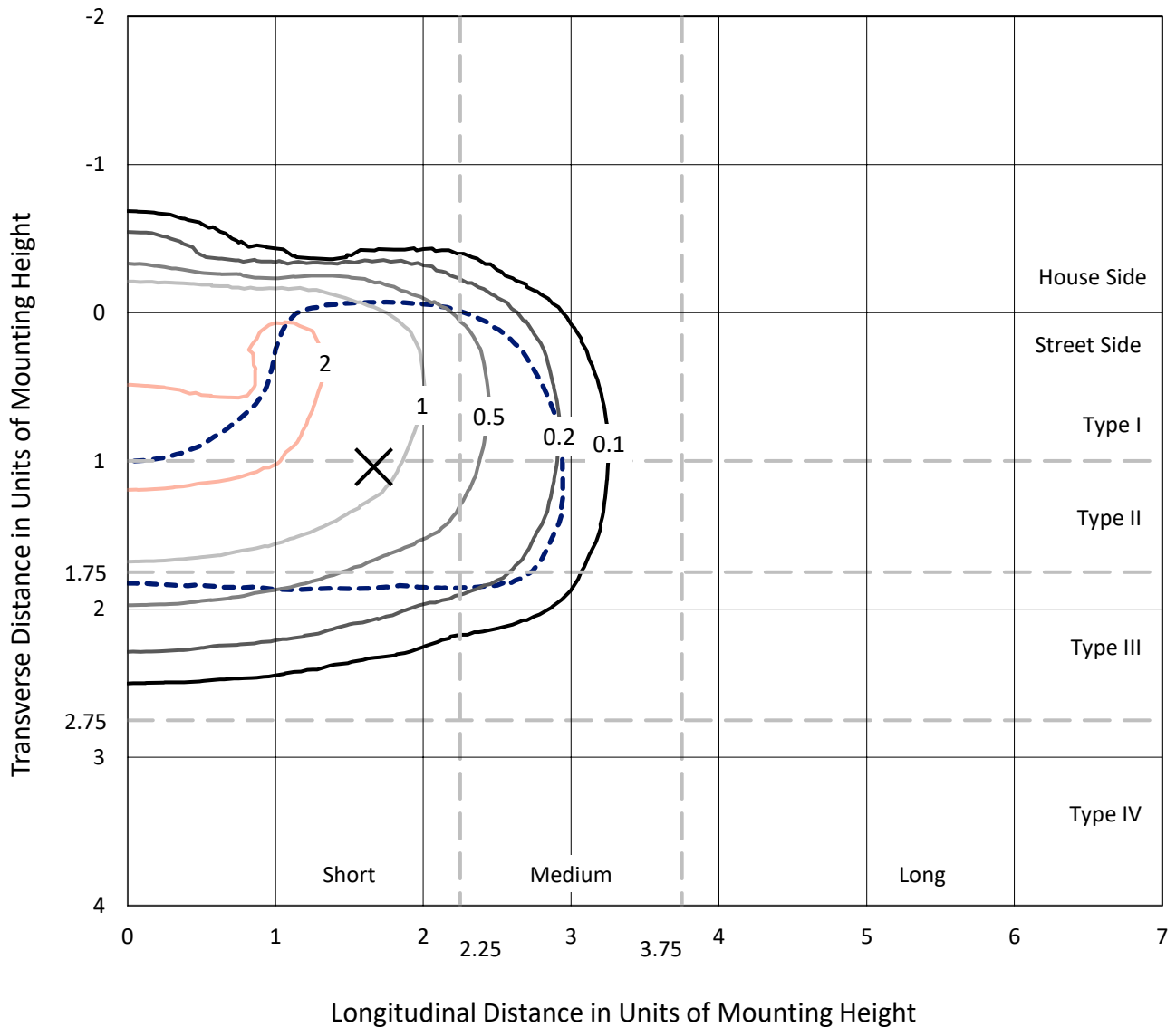
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

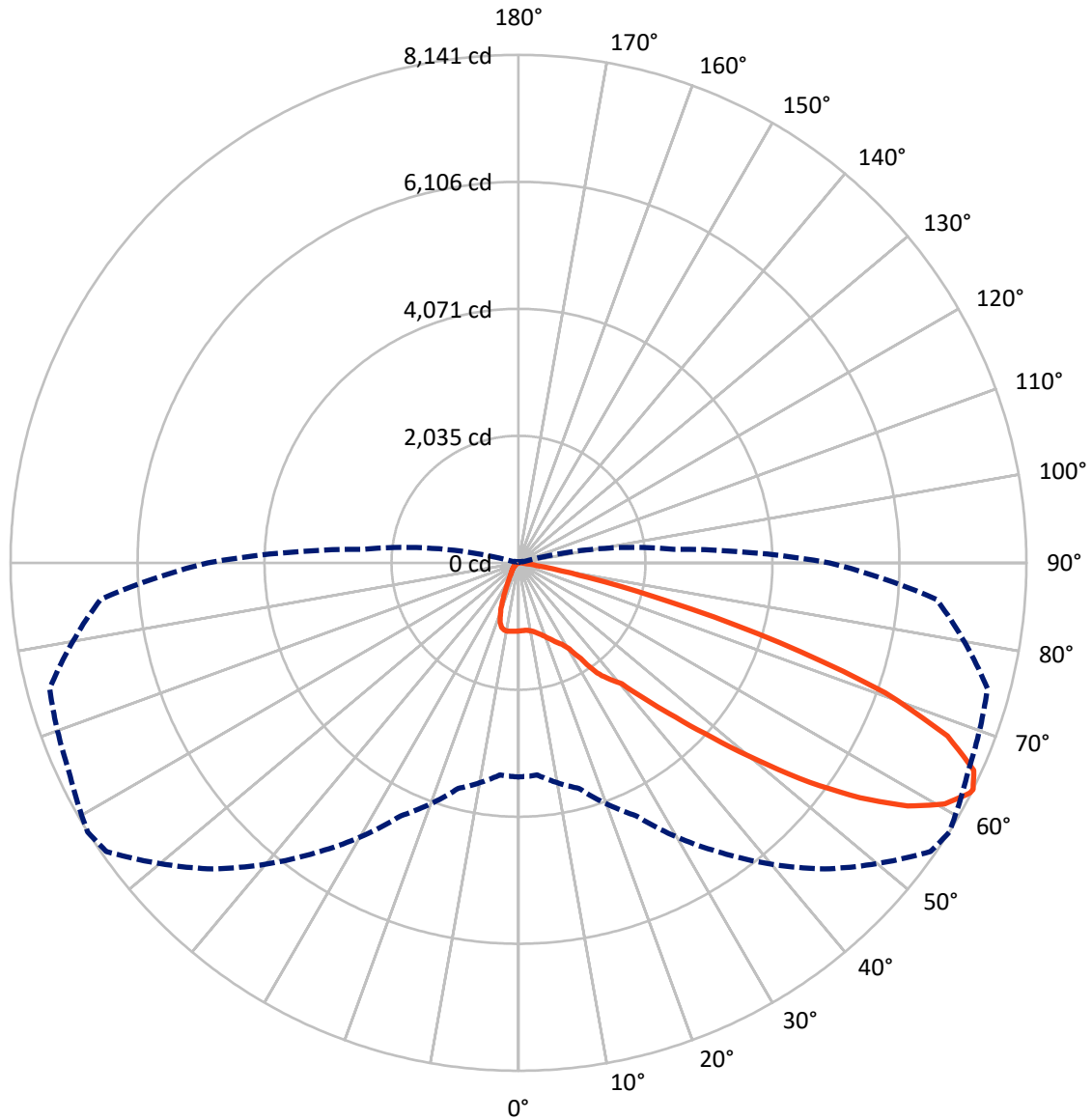
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral      - - - Horizontal Cone Through 63-Deg Vertical

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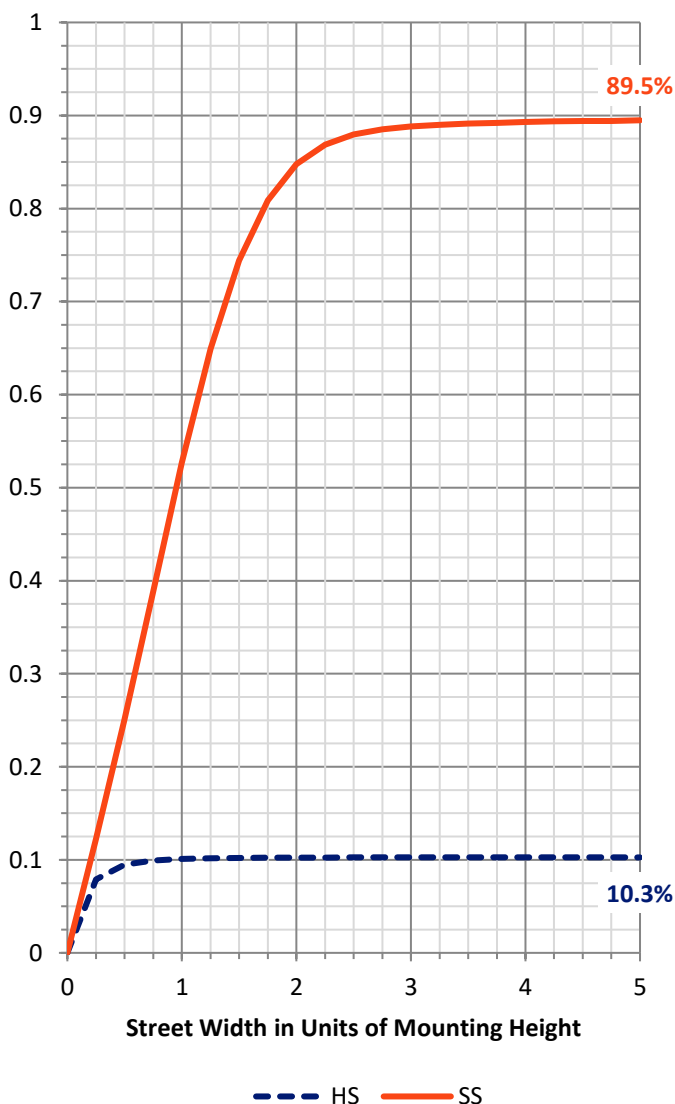
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1011.1	0.0	1011.1
	% Fixture	10.4	0.0	10.4
<b>Street Side</b>	Lumens	8753.7	0.0	8753.7
	% Fixture	89.6	0.0	89.6
<b>Total</b>	Lumens	9764.8	0.0	9764.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	102.3	1.0
10°-20°	278.7	2.9
20°-30°	483.8	5.0
30°-40°	889.0	9.1
40°-50°	1673.4	17.1
50°-60°	2862.3	29.3
60°-70°	2740.7	28.1
70°-80°	698.9	7.2
80°-90°	35.7	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°	9764.8	100.0
0°-180°	9764.8	100.0

**Coefficient of Utilization**

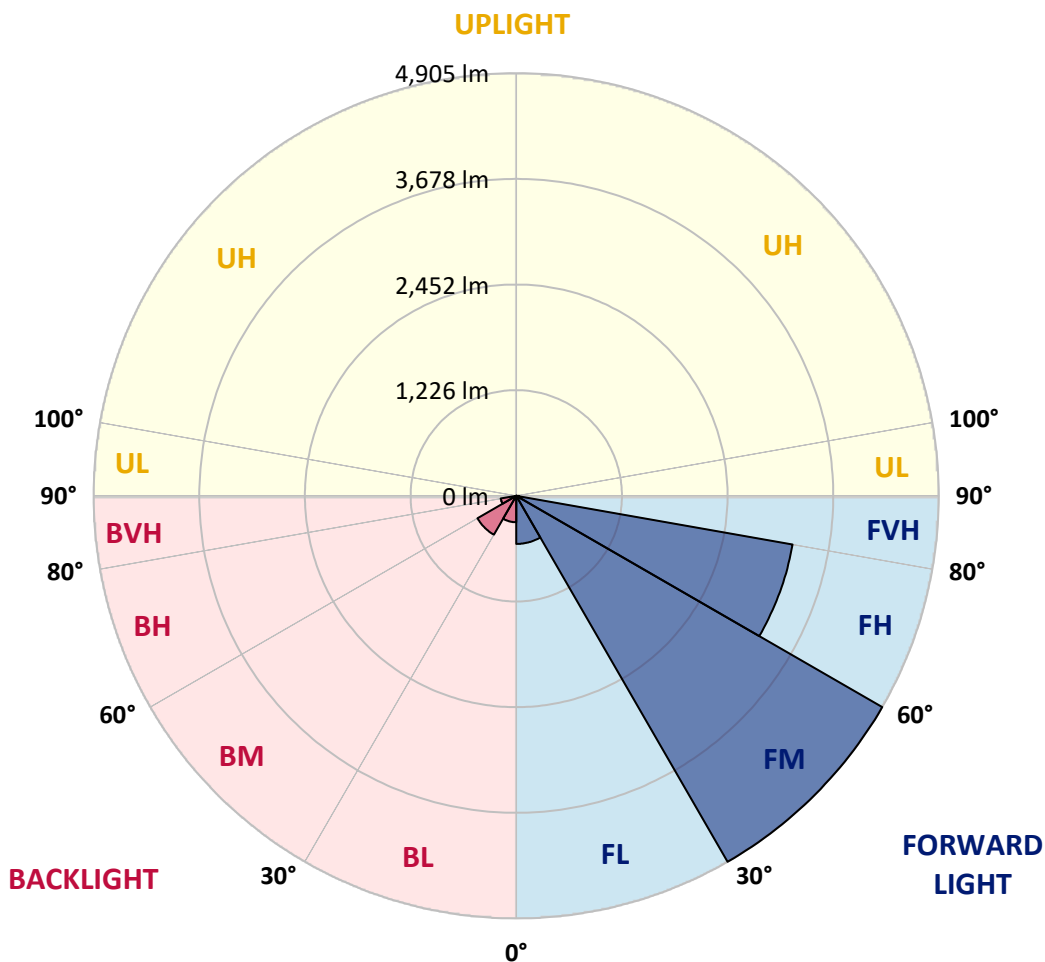


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	558.2	5.7			
FM (30°-60°)	4904.7	50.2			
FH (60°-80°)	3256.5	33.3			G2/5000
FVH (80°-90°)	34.4	0.4			G1/100
BL (0°-30°)	306.6	3.1	B1/500		
BM (30°-60°)	520.0	5.3	B1/1000		
BH (60°-80°)	183.0	1.9	B1/500		G1/500
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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1093.2	1093.2	1093.2	1093.2	1093.2	1093.2	1093.2	1093.2	1093.2	1093.2	1093.2
2.5°	1066.0	1069.7	1073.3	1074.8	1080.0	1085.1	1088.8	1088.1	1093.9	1096.9	1096.9
5°	1023.4	1023.4	1032.9	1041.8	1056.4	1071.1	1085.1	1088.1	1099.1	1109.4	1113.0
7.5°	987.4	989.6	996.9	1013.0	1032.9	1058.6	1086.6	1093.2	1112.3	1135.1	1144.7
10°	970.5	971.9	981.5	998.4	1023.4	1058.6	1097.6	1110.1	1139.5	1175.5	1188.8
12.5°	966.8	969.0	978.5	997.6	1026.3	1069.0	1121.9	1135.1	1177.8	1224.1	1244.0
15°	973.3	974.8	984.4	1005.0	1036.6	1087.4	1154.2	1172.6	1223.4	1277.0	1302.8
17.5°	996.9	995.4	1002.1	1018.9	1054.2	1110.1	1193.2	1215.2	1274.8	1348.3	1365.2
20°	1096.9	1087.4	1081.5	1066.8	1080.7	1142.5	1240.3	1272.6	1346.1	1421.1	1432.9
22.5°	1312.3	1290.9	1249.0	1191.7	1147.6	1186.6	1296.9	1334.3	1429.2	1502.7	1502.7
25°	1586.5	1559.3	1517.4	1392.4	1284.4	1259.4	1360.8	1407.8	1519.6	1593.9	1569.6
27.5°	1929.9	1908.5	1826.9	1681.3	1516.0	1386.5	1435.1	1478.5	1599.7	1689.4	1638.7
30°	2209.2	2198.9	2132.0	2001.9	1819.5	1630.6	1573.3	1601.9	1706.3	1810.0	1757.8
32.5°	2445.2	2445.2	2376.8	2255.5	2085.0	1917.3	1807.8	1828.4	1928.4	2048.2	1951.2
35°	2704.7	2695.9	2640.7	2525.3	2334.2	2186.4	2141.6	2169.5	2259.9	2348.9	2110.0
37.5°	2977.4	2974.5	2917.1	2805.4	2649.6	2463.6	2358.5	2365.8	2412.1	2466.5	2296.0
40°	3273.7	3278.2	3203.2	3134.0	2987.0	2796.6	2595.2	2548.8	2592.2	2745.9	2639.3
42.5°	3623.6	3613.4	3581.1	3486.9	3368.5	3254.6	3012.7	2995.8	3034.0	3198.7	3083.3
45°	4030.3	4044.9	3989.1	3936.8	3857.4	3762.6	3560.5	3531.0	3573.0	3828.8	3664.8
47.5°	4437.5	4423.6	4459.6	4450.0	4492.7	4422.1	4243.5	4183.2	4283.9	4526.4	4285.4
50°	4747.8	4763.2	4838.2	4947.7	5130.8	5170.5	4999.2	4978.6	5023.5	5179.3	4840.4
52.5°	4949.2	5000.6	5118.3	5399.9	5730.0	5986.5	5856.4	5845.4	5827.0	5868.9	5371.2
55°	5080.8	5133.0	5286.7	5701.3	6269.6	6686.4	6693.0	6646.0	6524.7	6494.5	5867.4
57.5°	4999.9	5010.3	5229.3	5783.6	6568.8	7185.6	7401.8	7354.7	7130.5	7016.5	6305.6
60°	4494.1	4515.5	4820.5	5471.9	6438.7	7348.8	7871.5	7850.2	7604.7	7476.0	6646.7
62.5°	3598.0	3659.7	3973.6	4700.0	5833.6	7073.9	8061.9	8122.2	7931.1	7753.9	6754.1
63°	3433.3	3413.4	3745.0	4475.0	5673.4	6937.8	8064.9	8141.3	7945.8	7780.4	6724.6
65°	2541.5	2601.0	2816.5	3528.8	4721.3	6304.9	7883.3	8018.5	7891.4	7663.5	6399.0
67.5°	1426.9	1424.0	1662.2	2309.2	3304.7	4945.5	7128.3	7414.2	7387.8	6876.9	5304.3
70°	698.4	709.5	807.2	1196.9	1916.6	3411.9	5923.3	6232.1	6241.6	5401.4	3667.8
72.5°	316.1	321.3	391.1	583.0	985.2	1816.6	4081.7	4376.5	4322.1	3442.1	2025.4
75°	166.9	177.9	215.4	293.3	474.9	749.2	2220.2	2505.4	2391.5	1572.6	745.5
77.5°	123.5	127.2	146.3	186.7	254.4	291.9	957.9	1139.5	1067.5	569.0	247.0
80°	90.4	93.3	108.8	132.3	160.3	148.5	361.0	413.9	371.3	193.3	75.7
82.5°	55.1	55.9	79.4	98.5	100.7	83.1	119.1	127.9	133.8	108.8	41.2
85°	19.9	25.0	53.6	71.3	59.6	41.9	50.0	55.1	60.3	69.1	24.3
87.5°	2.2	3.0	25.8	34.5	16.9	15.4	18.4	20.6	22.1	25.8	11.7
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°	1093.2	1093.2	1093.2	1093.2	1093.2	1093.2	1093.2	1093.2	1093.2	1093.2	1093.2
2.5°	1099.8	1102.8	1100.6	1096.9	1096.1	1093.9	1089.5	1089.5	1089.5	1091.0	1089.5
5°	1116.0	1118.2	1113.0	1105.7	1097.6	1087.4	1076.3	1069.7	1069.0	1067.5	1063.8
7.5°	1146.9	1149.8	1138.1	1120.4	1098.3	1073.3	1049.8	1027.8	1017.5	1009.4	1009.4
10°	1191.7	1194.6	1171.1	1139.5	1095.4	1044.7	988.8	938.1	898.4	880.0	875.6
12.5°	1245.4	1246.8	1207.9	1152.7	1080.0	982.2	863.1	752.1	674.9	639.6	636.0
15°	1304.2	1293.9	1242.5	1157.9	1035.8	853.5	647.7	511.7	431.5	408.0	416.9
17.5°	1363.8	1344.6	1268.9	1149.8	936.6	647.7	435.2	349.2	324.2	317.6	317.6
20°	1419.7	1393.2	1288.0	1114.5	764.6	446.2	322.8	302.2	297.8	293.3	294.1
22.5°	1475.5	1435.1	1304.9	1035.8	569.8	319.1	288.9	282.3	276.4	270.5	269.8
25°	1529.9	1474.0	1311.5	890.3	388.2	274.2	263.9	255.1	243.4	236.7	235.3
27.5°	1586.5	1521.1	1307.1	706.5	283.1	245.5	235.3	222.8	208.8	197.0	197.0
30°	1695.4	1610.8	1291.7	508.0	238.2	216.1	202.9	183.1	167.6	155.9	155.1
32.5°	1843.8	1727.7	1238.8	357.3	211.7	190.4	170.5	148.5	132.3	123.5	123.5
35°	1976.1	1845.3	1139.5	263.2	190.4	165.4	141.2	119.8	107.3	101.5	99.3
37.5°	2177.6	2017.3	1002.8	213.9	169.8	143.4	118.4	98.5	88.2	83.8	83.8
40°	2479.8	2227.6	835.1	187.5	149.9	122.1	98.5	83.1	75.0	69.8	69.8
42.5°	2854.7	2484.9	665.3	168.3	131.6	105.2	82.4	70.5	63.2	59.6	58.8
45°	3326.7	2756.2	512.4	150.7	116.9	89.7	69.8	59.6	52.2	50.0	50.7
47.5°	3819.2	2995.1	397.0	135.3	101.5	75.7	59.6	51.4	46.4	43.4	43.4
50°	4239.8	3159.8	301.5	117.6	89.7	64.0	52.2	46.4	41.9	40.4	39.7
52.5°	4591.2	3207.6	230.8	102.2	78.7	55.1	46.4	41.9	38.2	36.0	36.0
55°	4890.4	3165.7	180.9	86.1	66.2	47.8	41.2	37.5	33.1	30.9	30.1
57.5°	5065.4	3031.1	138.2	71.3	53.6	39.7	36.0	31.6	26.5	22.8	22.8
60°	5153.5	2835.6	105.9	58.8	41.2	31.6	29.4	23.5	18.4	15.4	14.7
62.5°	5047.7	2576.1	80.1	46.4	30.9	23.5	19.9	16.9	11.7	8.8	8.8
63°	4982.3	2501.1	77.2	44.1	28.7	22.1	18.4	15.4	10.3	8.1	7.4
65°	4541.9	2173.9	63.2	35.3	22.8	15.4	12.5	11.0	7.4	3.7	3.0
67.5°	3606.8	1662.9	50.0	26.5	16.2	11.0	7.4	6.7	2.2	0.0	0.0
70°	2438.6	1074.1	39.0	19.1	11.0	6.7	3.7	3.0	0.7	0.0	0.0
72.5°	1271.8	550.7	30.1	13.9	6.7	4.4	2.2	0.7	0.0	0.0	0.0
75°	449.9	187.5	22.1	8.8	4.4	2.2	0.7	0.0	0.0	0.0	0.0
77.5°	136.0	69.8	13.9	6.7	3.0	1.5	0.0	0.0	0.0	0.0	0.0
80°	47.8	25.8	8.1	4.4	2.2	0.7	0.0	0.0	0.0	0.0	0.0
82.5°	23.5	12.5	5.2	3.7	2.2	0.7	0.0	0.0	0.0	0.0	0.0
85°	13.2	8.1	4.4	3.7	2.2	1.5	0.0	0.0	0.0	0.0	0.0
87.5°	9.6	5.9	4.4	3.7	3.0	1.5	0.7	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)