

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: P647304

Luminaire Tested: **GALN-SA2D-835-U-T4FT-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647304  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-29)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2D-835-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8771.2 lumens  
Efficiency: N/A  
Efficacy: 70.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

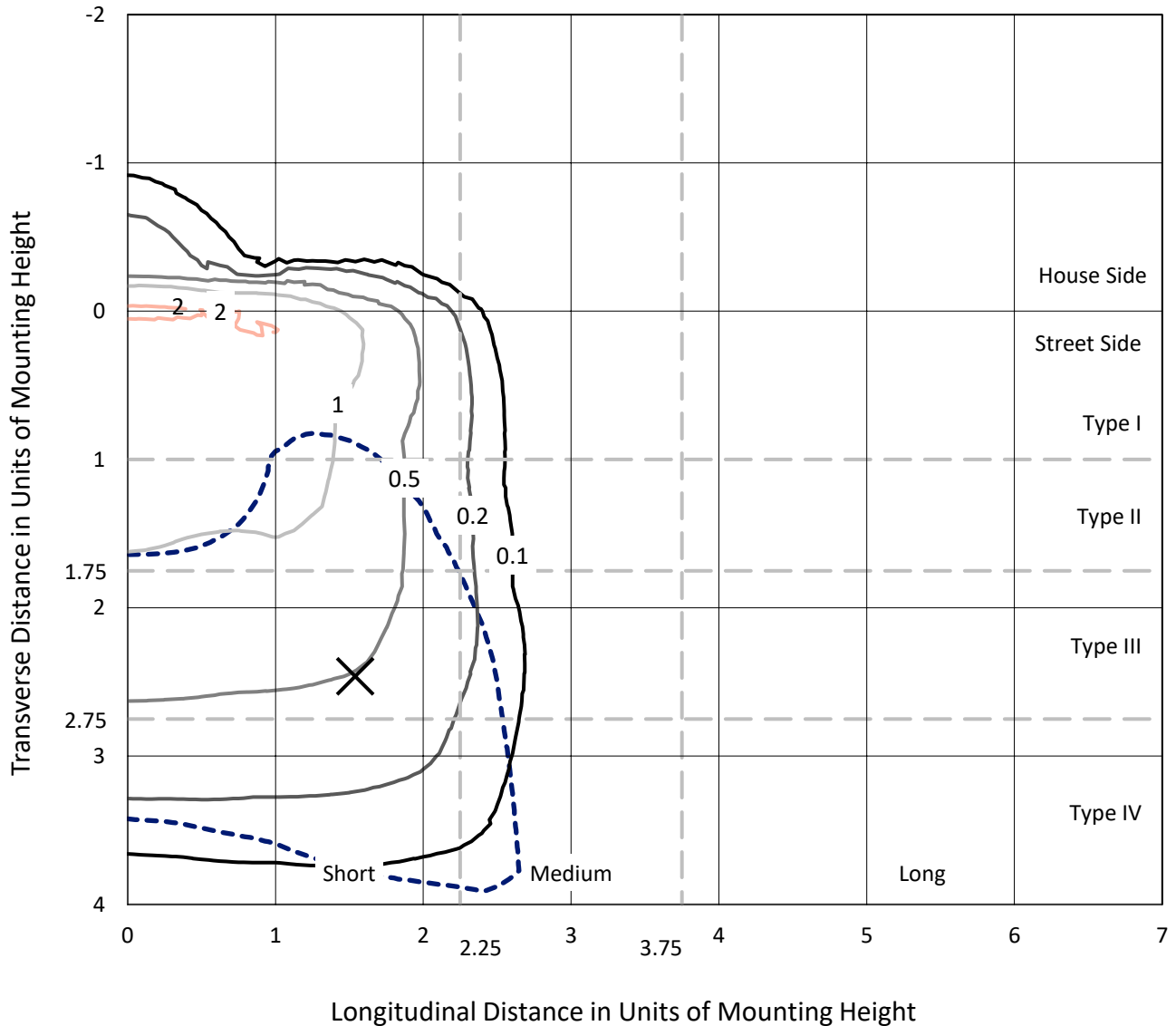
Input Watts (W): 125  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

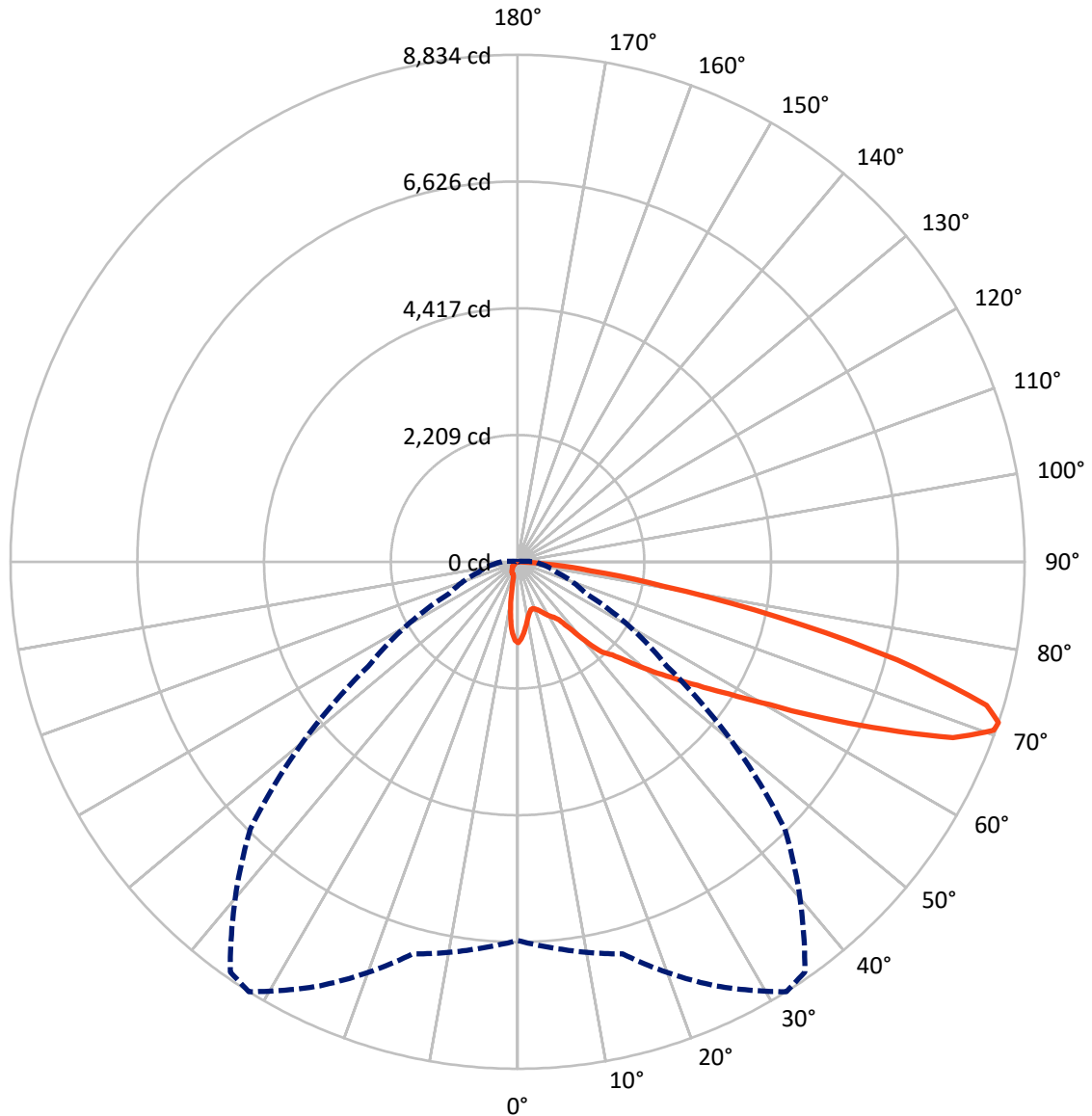
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

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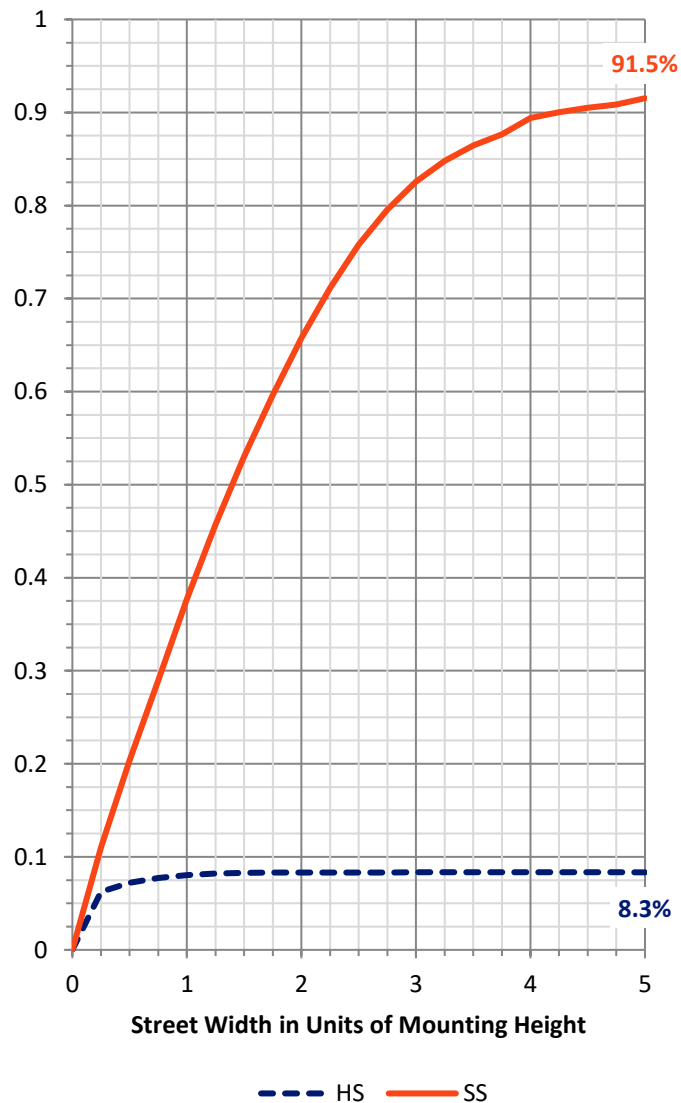
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	734.7	0.0	734.7
	% Fixture	8.4	0.0	8.4
<b>Street Side</b>	Lumens	8036.5	0.0	8036.5
	% Fixture	91.6	0.0	91.6
<b>Total</b>	Lumens	8771.2	0.0	8771.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	114.7	1.3
10°-20°	248.9	2.8
20°-30°	387.2	4.4
30°-40°	645.2	7.4
40°-50°	1200.1	13.7
50°-60°	1926.8	22.0
60°-70°	2591.7	29.5
70°-80°	1537.7	17.5
80°-90°	118.9	1.4
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°	8771.2	100.0
0°-180°	8771.2	100.0

**Coefficient of Utilization**



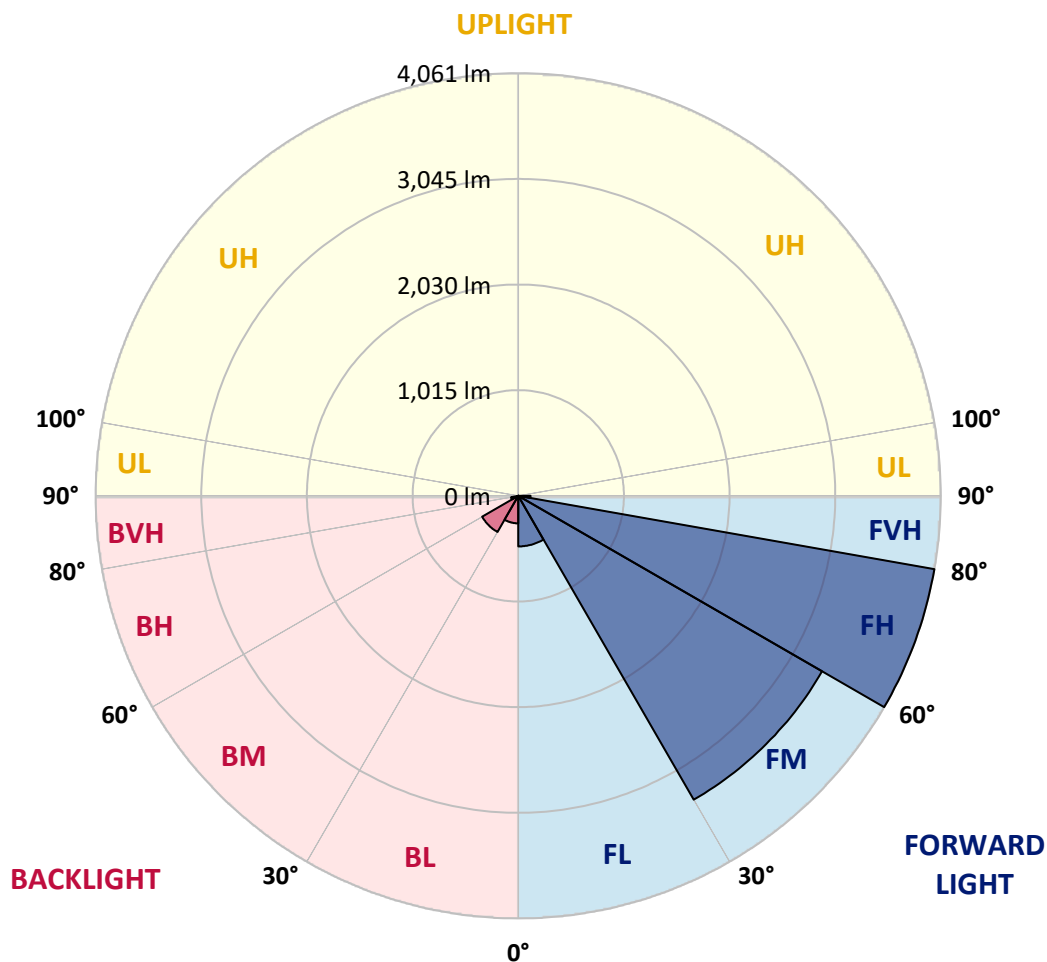
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	486.2	5.5			
FM (30°-60°)	3371.3	38.4			
FH (60°-80°)	4060.6	46.3			G2/5000
FVH (80°-90°)	118.4	1.3			G2/225
BL (0°-30°)	264.7	3.0	B1/500		
BM (30°-60°)	400.8	4.6	B1/1000		
BH (60°-80°)	68.7	0.8	B0/110		G0/110
BVH (80°-90°)	0.5	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-G2**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	1410.6	1410.6	1410.6	1410.6	1410.6	1410.6	1410.6	1410.6	1410.6	1410.6	1410.6
2.5°	1308.2	1321.7	1319.7	1324.4	1335.8	1340.5	1353.3	1367.4	1387.0	1400.5	1409.2
5°	1171.5	1181.6	1183.0	1206.5	1218.0	1230.8	1268.5	1309.6	1355.3	1391.7	1415.9
7.5°	1025.4	1030.8	1041.5	1072.6	1101.5	1114.3	1171.5	1242.9	1315.0	1382.9	1426.7
10°	904.9	910.9	930.5	963.5	990.4	1007.3	1086.7	1176.2	1277.2	1378.2	1442.2
12.5°	836.2	839.6	847.0	876.6	910.9	929.1	1014.6	1116.9	1246.9	1380.3	1468.4
15°	831.5	830.1	821.4	833.5	864.5	883.4	966.8	1076.6	1220.0	1387.0	1499.4
17.5°	856.4	853.1	832.2	832.2	857.8	873.3	946.6	1055.0	1206.5	1402.4	1543.2
20°	894.8	889.4	855.1	852.4	877.3	893.5	958.8	1056.4	1209.3	1431.4	1601.8
22.5°	943.3	937.3	885.3	886.7	913.7	929.8	993.8	1080.6	1226.0	1467.1	1664.3
25°	1006.5	999.8	938.6	935.8	964.2	978.3	1045.6	1123.7	1249.6	1511.5	1746.5
27.5°	1090.7	1076.6	1003.2	999.2	1029.5	1047.7	1108.3	1181.6	1291.4	1572.8	1857.0
30°	1160.1	1144.6	1074.6	1063.8	1096.1	1110.2	1172.9	1259.7	1373.5	1679.8	2009.8
32.5°	1251.0	1228.1	1145.9	1117.7	1152.0	1170.2	1266.4	1405.2	1495.4	1793.0	2191.5
35°	1455.7	1441.5	1341.2	1242.2	1240.2	1263.1	1404.5	1551.9	1620.6	1969.4	2439.4
37.5°	1748.5	1738.4	1632.1	1499.4	1461.0	1450.3	1572.1	1713.5	1820.6	2211.7	2727.5
40°	2088.6	2065.0	1967.4	1854.9	1805.0	1773.4	1770.0	1953.9	2081.8	2541.0	3027.8
42.5°	2332.2	2289.2	2170.7	2162.6	2151.8	2118.9	2023.3	2305.3	2419.2	2895.1	3349.0
45°	2588.1	2522.8	2346.4	2316.1	2312.0	2310.1	2405.7	2721.5	2786.8	3278.9	3678.8
47.5°	2786.8	2734.9	2590.2	2576.7	2593.5	2639.3	2911.3	3163.1	3149.6	3621.0	3955.6
50°	3051.4	3012.3	2851.4	2877.0	2963.8	3038.6	3481.6	3644.6	3447.9	3890.3	4156.9
52.5°	3363.8	3291.7	3142.3	3211.6	3344.9	3469.5	4086.9	4066.0	3657.3	4092.9	4307.0
55°	3634.5	3583.2	3532.1	3604.1	3803.4	3958.9	4633.6	4381.7	3809.5	4255.8	4373.0
57.5°	4092.3	4080.1	4027.6	4101.0	4342.8	4504.3	5123.1	4626.8	3907.1	4340.7	4295.6
60°	4769.6	4750.1	4652.4	4746.0	5061.1	5314.9	5574.2	4847.0	3929.3	4307.7	4072.7
62.5°	5584.3	5517.6	5434.1	5572.1	6004.4	6116.2	5999.0	4977.6	3846.5	4045.1	3535.4
65°	6345.0	6276.4	6278.4	6569.3	7039.9	7116.0	6494.5	4958.1	3604.1	3387.3	2607.6
67.5°	6927.4	6916.0	6998.1	7565.7	8181.1	8128.6	6937.5	4665.9	2885.7	2195.6	1385.6
70°	6957.1	6979.3	7215.0	8173.0	8797.9	8714.4	6899.9	3792.6	1799.0	1009.9	546.1
71°	6598.9	6748.4	7074.2	8154.2	8834.2	8725.8	6582.1	3176.6	1319.7	704.2	393.8
72.5°	5623.3	5702.1	6406.3	7674.2	8546.8	8315.1	5776.1	2226.5	845.0	430.9	226.2
75°	3097.2	3291.0	4290.2	6020.6	6835.9	6632.6	3764.4	1057.8	421.5	235.7	93.6
77.5°	1474.5	1436.8	2093.3	3580.6	4634.9	4624.2	1896.7	470.0	245.8	159.6	47.1
80°	421.5	474.0	801.2	1702.1	2573.3	2601.6	728.5	226.9	170.4	124.6	24.3
82.5°	127.2	130.0	294.3	752.8	1279.9	1206.5	273.3	115.8	122.5	99.0	14.2
85°	22.2	27.6	86.8	265.3	488.1	370.3	68.7	55.2	80.8	65.3	8.1
87.5°	1.3	2.0	29.0	30.3	43.1	24.9	12.1	8.1	17.5	17.5	4.7
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°	1410.6	1410.6	1410.6	1410.6	1410.6	1410.6	1410.6	1410.6	1410.6	1410.6	1410.6
2.5°	1415.3	1419.3	1416.6	1410.6	1400.5	1388.3	1372.1	1358.7	1347.2	1341.2	1348.6
5°	1424.0	1429.4	1415.9	1385.6	1339.9	1290.0	1233.5	1189.7	1155.4	1144.6	1140.5
7.5°	1437.5	1440.9	1404.5	1337.1	1240.2	1122.4	1019.4	932.5	865.2	845.0	815.3
10°	1455.0	1452.9	1384.3	1259.1	1088.7	911.6	752.1	633.6	544.0	511.7	509.0
12.5°	1481.9	1471.1	1358.7	1152.7	908.3	676.7	479.4	375.1	318.4	299.6	295.6
15°	1515.6	1490.0	1318.3	1028.1	695.5	437.0	295.6	263.9	256.5	255.2	253.8
17.5°	1555.3	1514.9	1265.1	875.2	488.8	283.4	247.1	246.4	247.1	245.8	245.1
20°	1609.1	1541.2	1201.8	694.1	323.1	239.0	235.7	235.7	236.3	235.7	235.7
22.5°	1666.4	1572.1	1123.7	529.9	243.7	226.9	226.2	227.5	228.9	228.2	228.2
25°	1737.1	1612.5	1020.7	362.9	218.1	216.8	217.4	220.2	222.8	223.5	222.8
27.5°	1839.4	1662.4	910.3	249.8	200.0	201.3	208.0	214.8	218.8	219.5	219.5
30°	1954.5	1717.6	766.2	202.6	185.2	185.2	193.2	206.0	214.8	216.1	216.8
32.5°	2102.7	1781.6	606.7	182.4	171.0	169.7	177.0	192.5	208.7	213.4	213.4
35°	2285.8	1857.0	451.1	169.7	160.9	157.5	161.6	174.4	195.3	208.7	210.1
37.5°	2500.6	1928.3	329.9	158.2	151.5	146.8	149.5	159.6	176.4	196.6	202.0
40°	2699.2	1991.6	246.4	148.8	142.0	138.7	140.7	145.4	159.6	178.4	181.8
42.5°	2916.0	2040.7	195.9	138.7	132.6	131.3	131.3	133.3	142.7	153.5	154.2
45°	3132.2	2058.3	164.3	126.6	122.5	123.9	123.2	121.8	125.9	124.6	124.6
47.5°	3286.3	2037.4	136.0	115.1	115.1	117.1	113.8	109.1	107.0	99.0	99.7
50°	3392.0	1961.3	111.7	101.6	107.0	109.8	103.0	95.6	88.2	79.5	77.4
52.5°	3435.8	1826.0	91.5	84.2	94.9	98.3	90.2	81.4	70.0	62.6	60.6
55°	3407.5	1659.0	76.1	68.7	80.1	84.2	76.1	66.0	53.2	45.1	43.8
57.5°	3283.0	1459.7	64.6	54.6	64.0	66.6	61.2	50.5	37.7	29.6	29.6
60°	3067.5	1253.7	52.5	43.1	47.8	51.8	46.4	36.3	25.6	18.2	16.8
62.5°	2630.6	1018.0	42.4	33.7	33.7	37.0	32.3	26.2	16.1	9.4	8.8
65°	1899.3	698.2	33.7	24.9	24.3	24.3	20.2	17.5	9.4	4.1	2.7
67.5°	1032.2	393.8	26.9	18.9	16.8	16.1	12.8	10.1	4.1	0.7	0.0
70°	406.0	151.5	20.9	12.8	10.8	10.1	6.7	4.7	2.7	0.0	0.0
71°	275.4	104.4	18.2	10.8	8.8	7.4	5.4	4.1	2.0	0.0	0.0
72.5°	157.5	64.6	14.2	8.1	6.7	5.4	4.1	2.7	2.0	0.0	0.0
75°	68.7	33.0	8.8	6.0	4.7	3.4	2.7	2.0	0.7	0.0	0.0
77.5°	35.0	18.2	6.0	4.7	2.7	2.0	1.3	0.7	0.0	0.0	0.0
80°	19.5	9.4	4.1	2.7	2.0	1.3	0.7	0.7	0.0	0.0	0.0
82.5°	10.8	5.4	2.0	1.3	0.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	6.7	3.4	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.4	1.3	0.0	0.0	0.0	0.0	0.7	0.7	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)