

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: P450425

Luminaire Tested: **GALN-SA1B-727-U-AFL-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450425  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA1B-727-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3945 lumens  
Efficiency: N/A  
Efficacy: 89.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B0 - U0 - G0

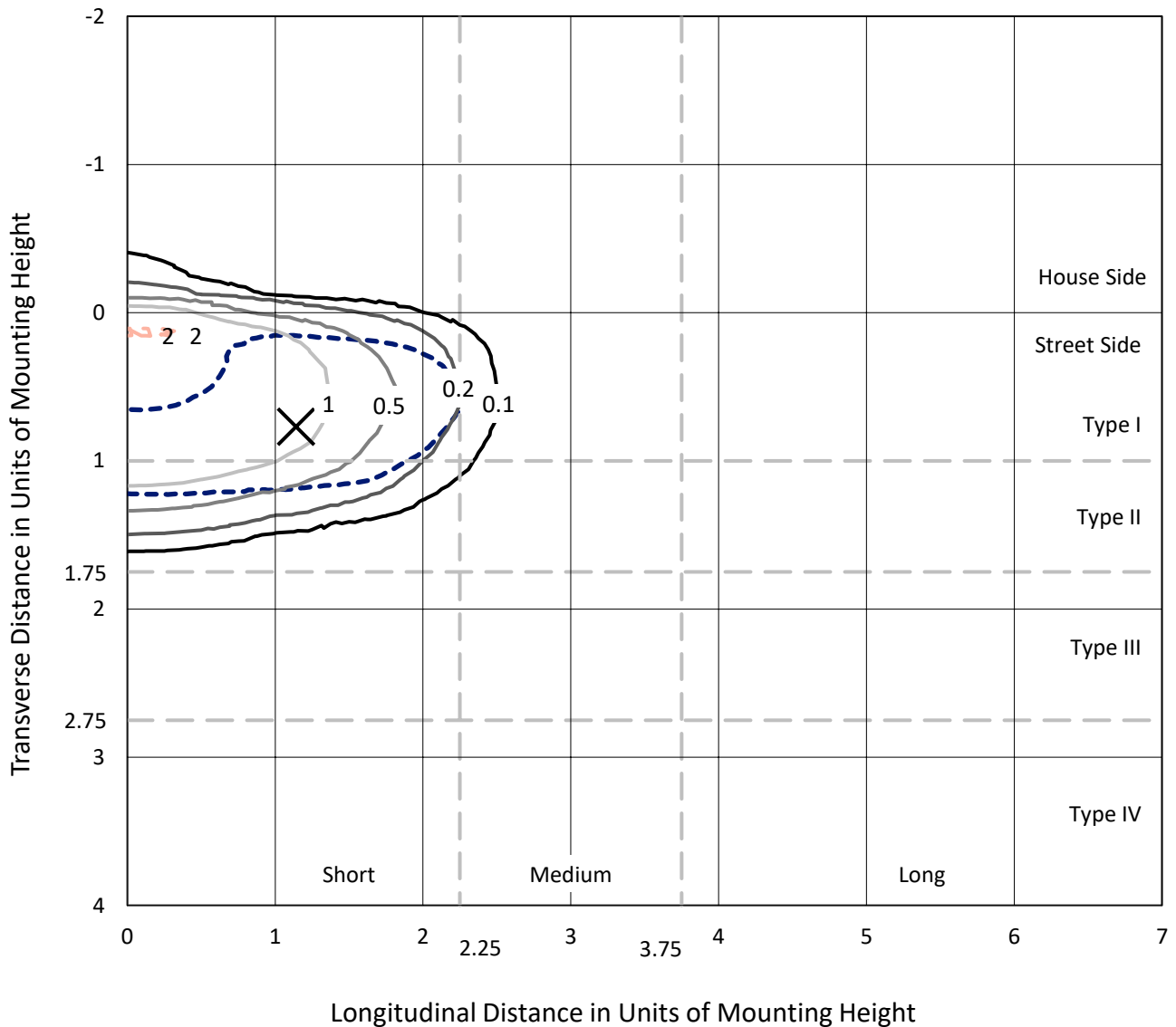
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

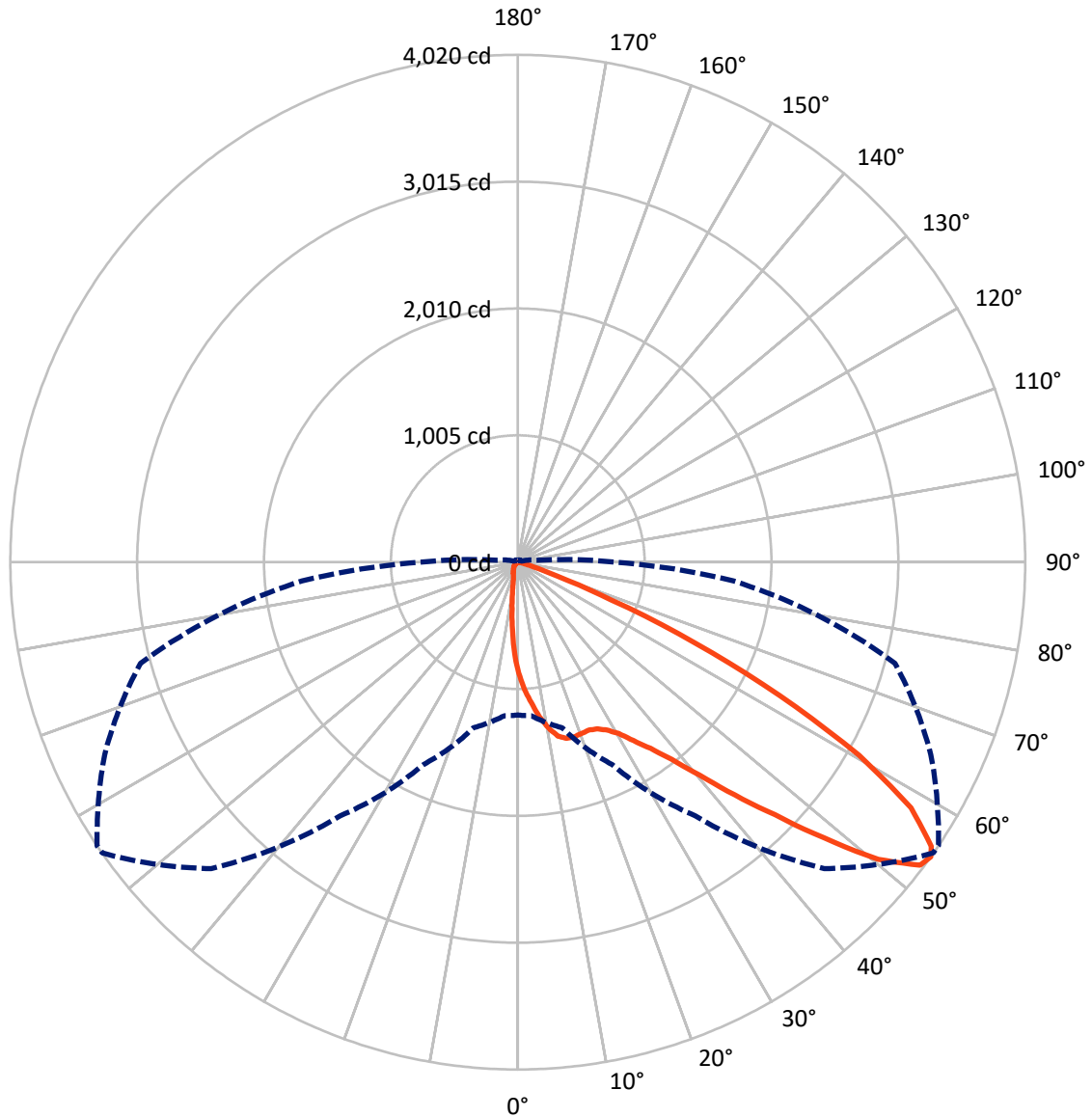
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral    - - - Horizontal Cone Through 54-Deg Vertical



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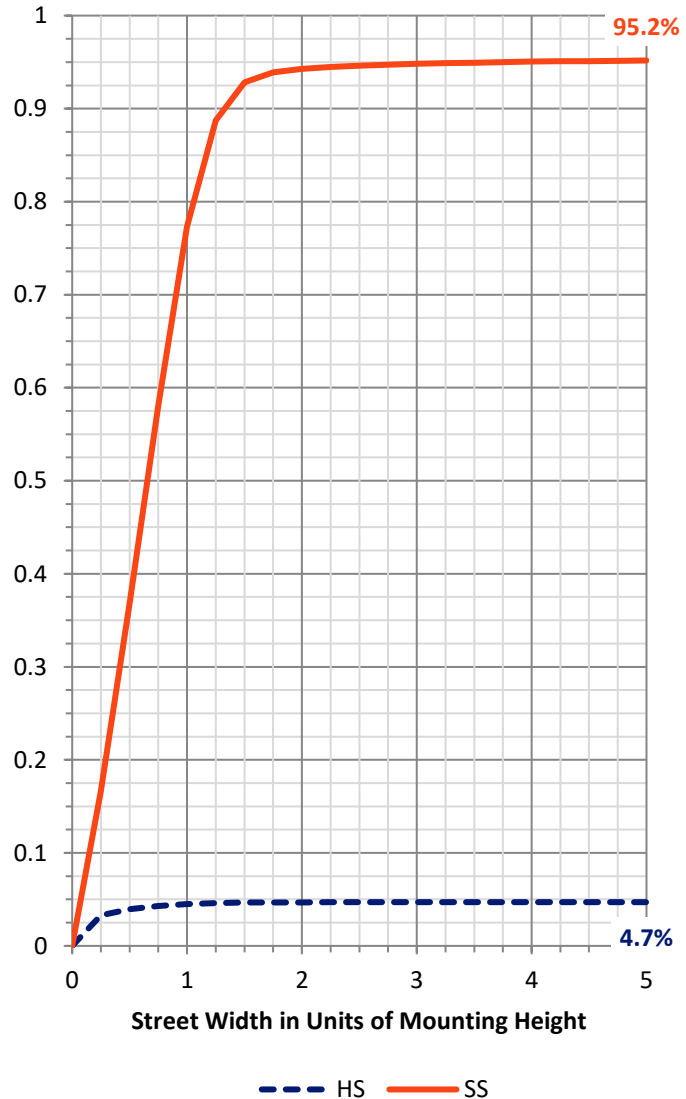
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	186.6	0.0	186.6
	% Fixture	4.7	0.0	4.7
<b>Street Side</b>	Lumens	3758.5	0.0	3758.5
	% Fixture	95.3	0.0	95.3
<b>Total</b>	Lumens	3945.0	0.0	3945.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	77.4	2.0
10°-20°	209.4	5.3
20°-30°	362.6	9.2
30°-40°	625.9	15.9
40°-50°	1065.4	27.0
50°-60°	1054.3	26.7
60°-70°	481.2	12.2
70°-80°	61.8	1.6
80°-90°	7.0	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°	3945.0	100.0
0°-180°	3945.0	100.0



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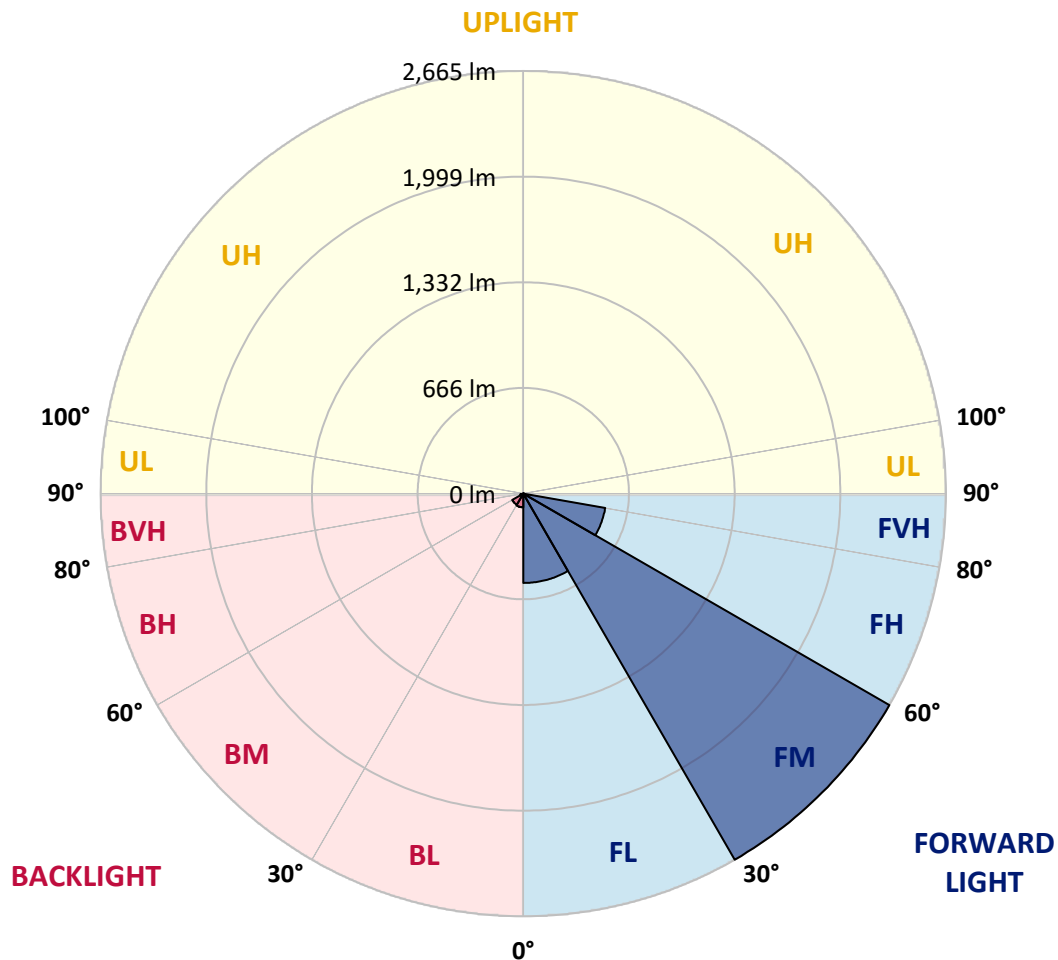
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	563.2	14.3			
FM (30°-60°)	2664.7	67.5			
FH (60°-80°)	524.3	13.3			G0/660
FVH (80°-90°)	6.2	0.2			G0/10
BL (0°-30°)	86.3	2.2	B0/110		
BM (30°-60°)	80.8	2.0	B0/220		
BH (60°-80°)	18.7	0.5	B0/110		G0/110
BVH (80°-90°)	0.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B0-U0-G0**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	876.5	876.5	876.5	876.5	876.5	876.5	876.5	876.5	876.5	876.5	876.5
2.5°	1113.9	1106.2	1095.5	1087.3	1067.8	1039.9	1010.3	1010.3	981.9	942.2	901.8
5°	1284.8	1279.7	1269.3	1248.0	1226.2	1187.1	1127.7	1117.3	1066.5	994.6	919.1
7.5°	1354.2	1356.6	1357.2	1351.6	1341.2	1302.6	1243.8	1236.6	1155.4	1059.1	941.7
10°	1287.7	1299.4	1310.8	1334.0	1366.7	1376.0	1342.8	1335.3	1255.5	1124.3	966.2
12.5°	1188.7	1195.1	1201.4	1237.9	1303.7	1379.0	1413.8	1413.6	1346.0	1189.2	997.3
15°	1142.6	1148.2	1148.7	1165.0	1221.9	1331.6	1444.2	1448.2	1434.3	1269.3	1030.8
17.5°	1152.2	1156.7	1153.0	1157.0	1186.8	1279.4	1440.7	1454.0	1505.9	1346.2	1061.2
20°	1214.8	1223.5	1209.2	1198.0	1207.0	1265.6	1429.0	1447.6	1556.5	1421.3	1088.9
22.5°	1327.1	1331.9	1313.8	1283.2	1267.2	1294.6	1425.8	1444.2	1599.6	1482.8	1104.8
25°	1451.9	1450.3	1430.3	1396.0	1362.5	1353.2	1446.8	1463.3	1635.3	1538.1	1109.6
27.5°	1576.7	1581.5	1548.0	1505.4	1465.2	1441.0	1494.0	1506.2	1675.5	1601.2	1115.5
30°	1721.8	1714.1	1681.1	1632.4	1586.3	1552.5	1569.8	1573.3	1730.8	1684.8	1130.9
32.5°	1910.5	1889.2	1852.2	1767.0	1734.0	1676.8	1681.1	1685.3	1798.2	1767.6	1149.5
35°	2166.5	2165.5	2093.1	1978.4	1898.0	1826.9	1808.3	1811.8	1900.1	1890.5	1190.8
37.5°	2474.8	2479.0	2396.5	2281.0	2133.0	2020.2	1981.8	1982.4	2055.0	2060.3	1253.6
40°	2725.7	2736.9	2687.7	2609.7	2463.6	2287.1	2222.7	2216.8	2272.7	2266.1	1343.3
42.5°	2833.8	2844.2	2862.6	2889.7	2809.3	2663.7	2511.8	2519.7	2536.8	2490.2	1443.9
45°	2780.8	2797.3	2869.5	3037.2	3112.7	3063.8	2882.5	2854.6	2782.4	2733.7	1545.1
47.5°	2560.2	2600.4	2721.0	3000.2	3264.7	3430.3	3300.9	3263.9	3028.4	2911.5	1609.5
50°	2197.4	2199.8	2367.8	2724.7	3185.9	3661.6	3728.1	3700.4	3257.5	3011.3	1641.9
52.5°	1593.0	1645.4	1799.2	2212.6	2844.7	3626.4	4000.4	3988.9	3493.9	3062.4	1688.8
54°	1211.0	1221.1	1357.9	1768.1	2452.7	3433.5	4017.2	4019.8	3611.3	3093.3	1716.5
55°	992.8	968.6	1112.3	1506.2	2185.2	3262.9	3962.3	3975.1	3664.0	3109.3	1737.0
57.5°	470.6	470.8	580.8	794.5	1368.6	2533.6	3627.2	3672.5	3669.8	3136.7	1800.0
60°	238.2	239.8	264.0	366.8	676.0	1684.3	2999.1	3106.9	3387.4	3140.7	1820.8
62.5°	166.6	164.8	160.8	176.5	284.5	856.0	2232.8	2326.5	2878.0	2988.7	1754.8
65°	142.7	138.7	127.5	125.1	143.7	341.0	1390.7	1543.5	2197.4	2587.9	1566.9
67.5°	121.9	120.3	110.2	104.1	101.7	148.5	717.6	797.9	1501.9	1860.2	1186.8
70°	103.5	102.7	96.6	88.9	82.2	88.9	266.2	329.8	837.1	1001.6	560.0
72.5°	84.1	84.9	86.0	76.1	69.2	63.1	113.7	132.3	350.3	358.0	195.9
75°	73.7	72.9	72.9	66.3	57.8	46.8	62.5	67.3	107.3	99.5	45.5
77.5°	51.9	50.0	58.6	54.6	48.2	33.3	35.7	37.8	44.4	38.1	21.3
80°	35.9	35.9	37.5	49.0	43.4	24.2	21.8	23.4	26.3	22.6	12.2
82.5°	20.2	20.8	24.5	26.1	25.3	16.2	14.4	14.6	17.6	15.4	7.7
85°	2.4	4.0	14.1	13.8	10.4	7.2	8.0	8.3	10.9	9.6	4.5
87.5°	0.3	0.5	2.9	3.7	2.7	2.9	2.9	2.9	3.7	4.3	3.2
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°	876.5	876.5	876.5	876.5	876.5	876.5	876.5	876.5	876.5	876.5	876.5
2.5°	879.9	859.7	811.5	755.6	720.0	661.9	613.0	577.6	568.8	551.8	556.8
5°	878.9	836.8	738.6	634.8	524.1	441.6	380.1	331.6	310.3	296.2	286.4
7.5°	879.4	813.7	656.1	490.8	358.5	277.6	220.6	191.1	171.4	163.2	164.2
10°	881.0	787.6	560.3	363.6	241.9	179.4	144.5	130.4	123.8	122.7	122.4
12.5°	884.7	759.1	468.7	269.9	169.3	130.4	117.1	112.3	110.2	110.2	109.4
15°	888.7	727.7	392.6	200.7	130.4	112.1	105.9	103.5	102.2	102.2	101.9
17.5°	888.7	691.5	321.5	155.7	112.3	103.0	98.2	95.0	94.0	94.0	93.7
20°	883.1	649.4	258.4	125.4	101.9	94.5	89.7	86.2	84.9	84.4	84.1
22.5°	863.7	593.3	205.7	107.8	93.4	87.0	80.9	76.9	75.9	75.3	75.6
25°	829.1	529.9	162.9	94.8	85.7	78.0	72.7	69.7	68.7	68.7	68.9
27.5°	793.4	463.7	129.1	84.9	76.4	69.5	65.2	63.3	63.1	63.9	64.1
30°	760.4	397.1	104.6	76.9	68.1	62.3	59.4	58.8	58.8	59.1	59.4
32.5°	723.7	338.8	87.6	70.0	61.5	56.4	54.8	54.8	55.4	55.4	55.9
35°	700.5	288.8	76.9	63.3	56.4	52.2	51.1	51.4	52.2	53.2	53.8
37.5°	688.0	248.9	70.0	58.0	51.6	48.7	47.6	48.2	50.0	51.9	52.2
40°	689.1	218.8	64.4	53.5	47.9	44.7	43.9	45.5	47.4	49.2	49.5
42.5°	700.8	196.4	59.1	48.2	44.7	40.2	39.9	41.5	42.3	44.2	44.4
45°	714.6	180.2	53.5	42.6	38.9	34.9	35.1	36.5	37.5	40.5	41.0
47.5°	718.9	169.0	47.1	36.2	31.9	30.6	30.9	31.7	33.8	36.5	36.7
50°	723.7	162.1	41.0	30.6	27.1	26.9	27.1	27.7	29.0	30.1	29.8
52.5°	744.2	161.8	35.9	26.6	23.2	23.7	24.0	23.7	22.6	21.0	20.5
54°	763.3	162.6	33.5	24.8	21.3	22.1	21.8	20.5	17.8	16.2	15.4
55°	778.8	163.4	32.2	23.4	20.2	20.5	20.8	18.1	14.6	13.0	12.5
57.5°	809.1	161.6	29.0	20.5	17.8	16.8	16.5	12.0	8.0	6.9	6.4
60°	794.0	145.9	26.3	17.6	15.2	13.6	11.2	6.7	4.0	2.9	2.9
62.5°	734.3	123.8	23.4	14.4	12.5	10.4	5.9	3.7	1.9	1.1	0.8
65°	656.9	104.1	21.0	11.4	9.8	6.7	3.2	2.4	0.8	0.0	0.0
67.5°	488.4	77.2	17.8	9.0	7.5	4.3	2.1	1.3	0.3	0.0	0.0
70°	226.2	47.1	15.2	6.9	5.3	3.2	1.6	0.8	0.0	0.0	0.0
72.5°	64.9	29.5	12.5	5.1	3.7	2.7	1.3	0.5	0.3	0.0	0.0
75°	22.6	23.7	9.3	3.7	2.9	1.9	1.1	0.5	0.3	0.0	0.0
77.5°	13.6	19.2	5.9	3.2	2.4	1.6	1.1	0.5	0.3	0.3	0.0
80°	7.7	12.8	3.7	2.7	2.1	1.3	0.8	0.5	0.3	0.3	0.0
82.5°	4.3	6.1	2.9	2.4	1.9	1.3	0.8	0.5	0.3	0.3	0.3
85°	3.5	3.2	2.4	2.1	1.6	1.1	0.8	0.3	0.0	0.0	0.0
87.5°	2.7	2.1	2.1	2.1	1.6	1.1	0.8	0.3	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)