

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: P945572

Luminaire Tested: **GALN-SB1C-727-U-SL3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945572
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-13)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB1C-727-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5596 lumens
Efficiency: N/A
Efficacy: 102.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 54.4
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

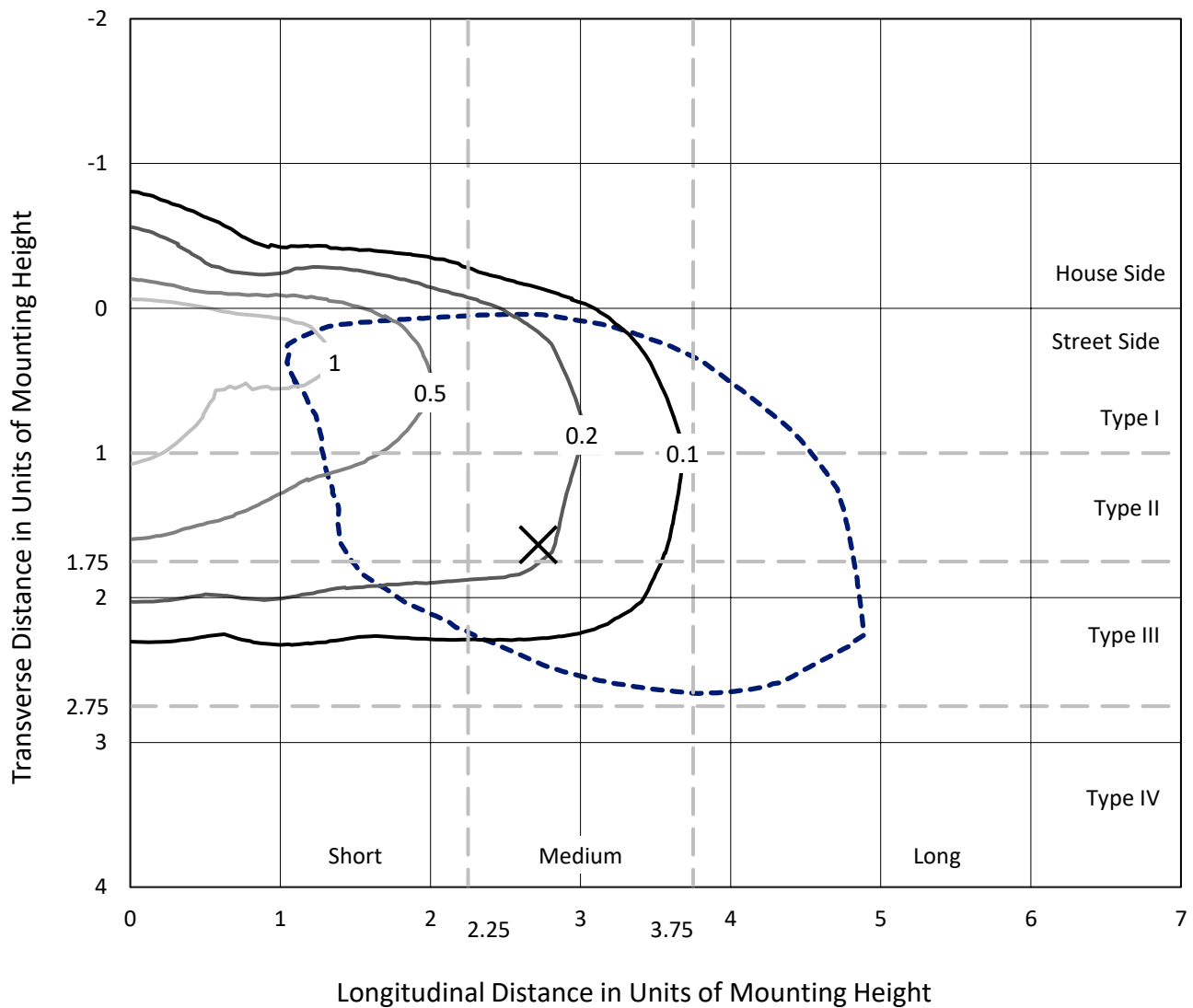


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

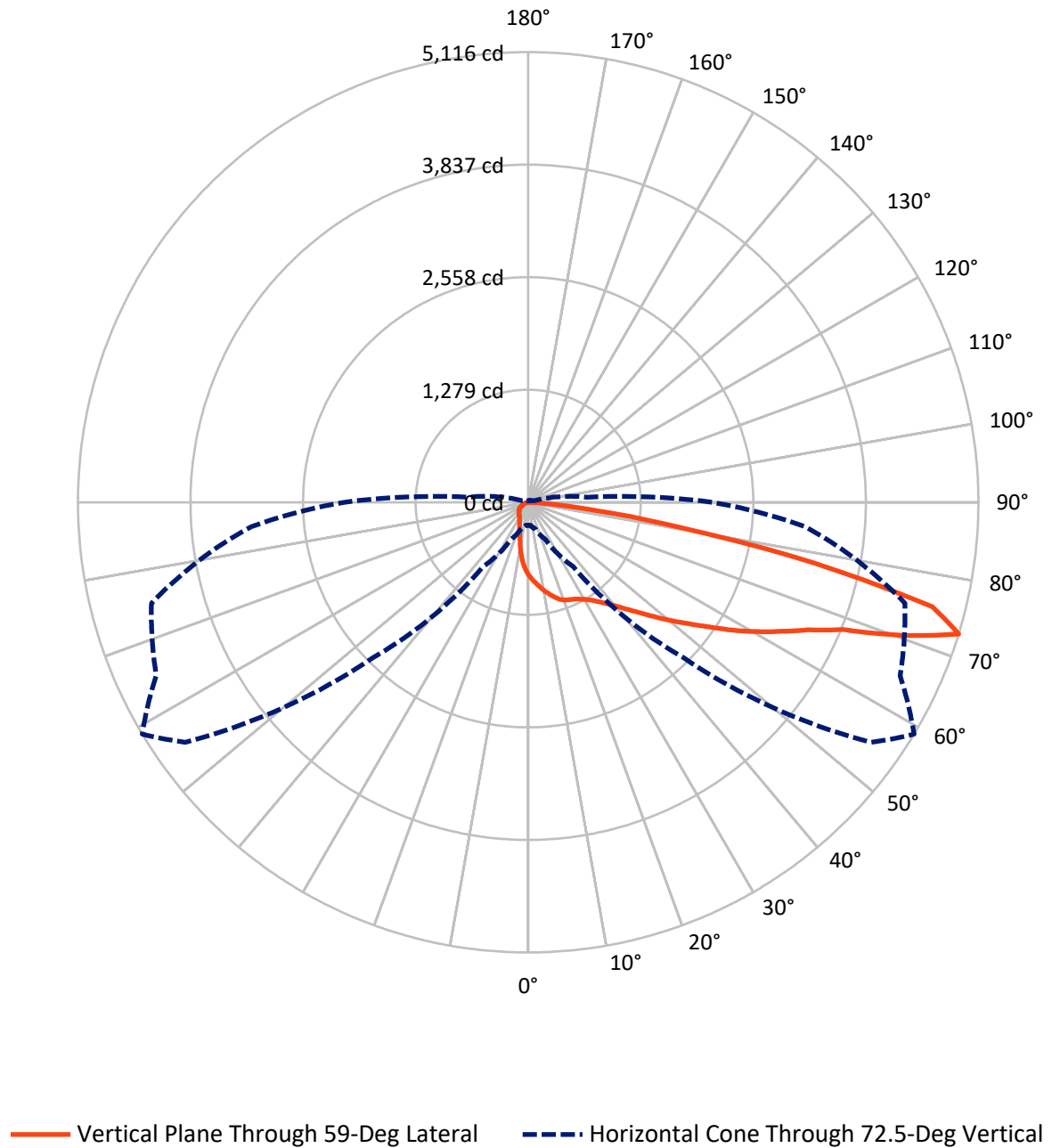


Based on 25 foot mounting height. Maximum calculated value = 1.6 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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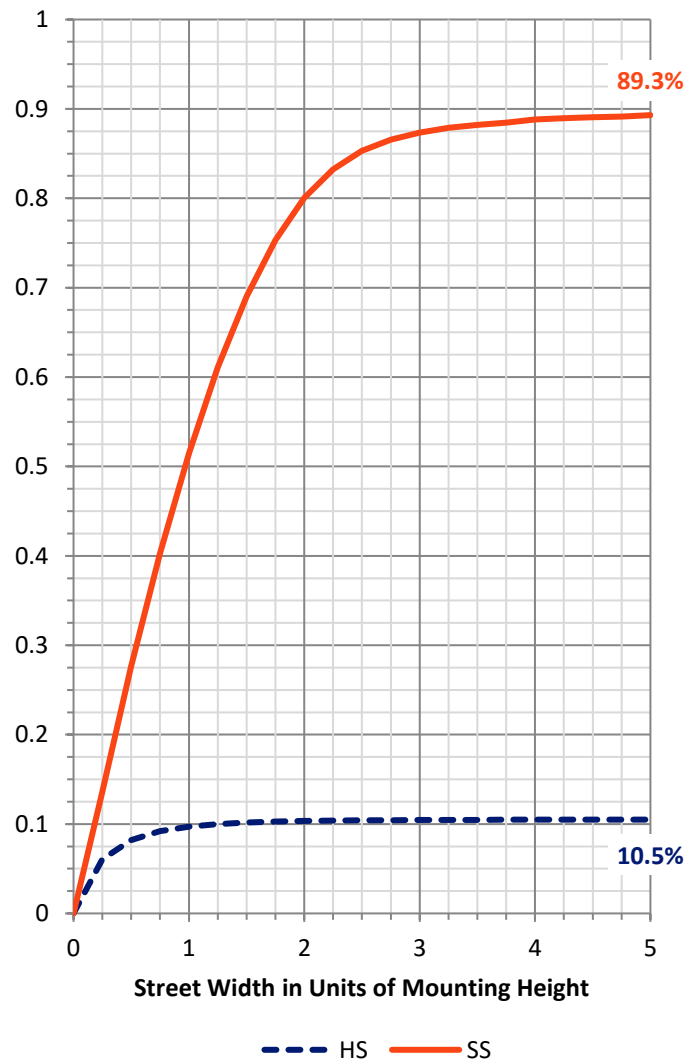
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	591.0	0.0	591.0
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	5004.9	0.0	5004.9
	% Fixture	89.4	0.0	89.4
Total	Lumens	5596.0	0.0	5596.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.9	1.3
10°-20°	198.9	3.6
20°-30°	315.2	5.6
30°-40°	505.8	9.0
40°-50°	807.8	14.4
50°-60°	1169.6	20.9
60°-70°	1388.1	24.8
70°-80°	1030.4	18.4
80°-90°	105.4	1.9
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°	5596.0	100.0
0°-180°	5596.0	100.0

Coefficient of Utilization



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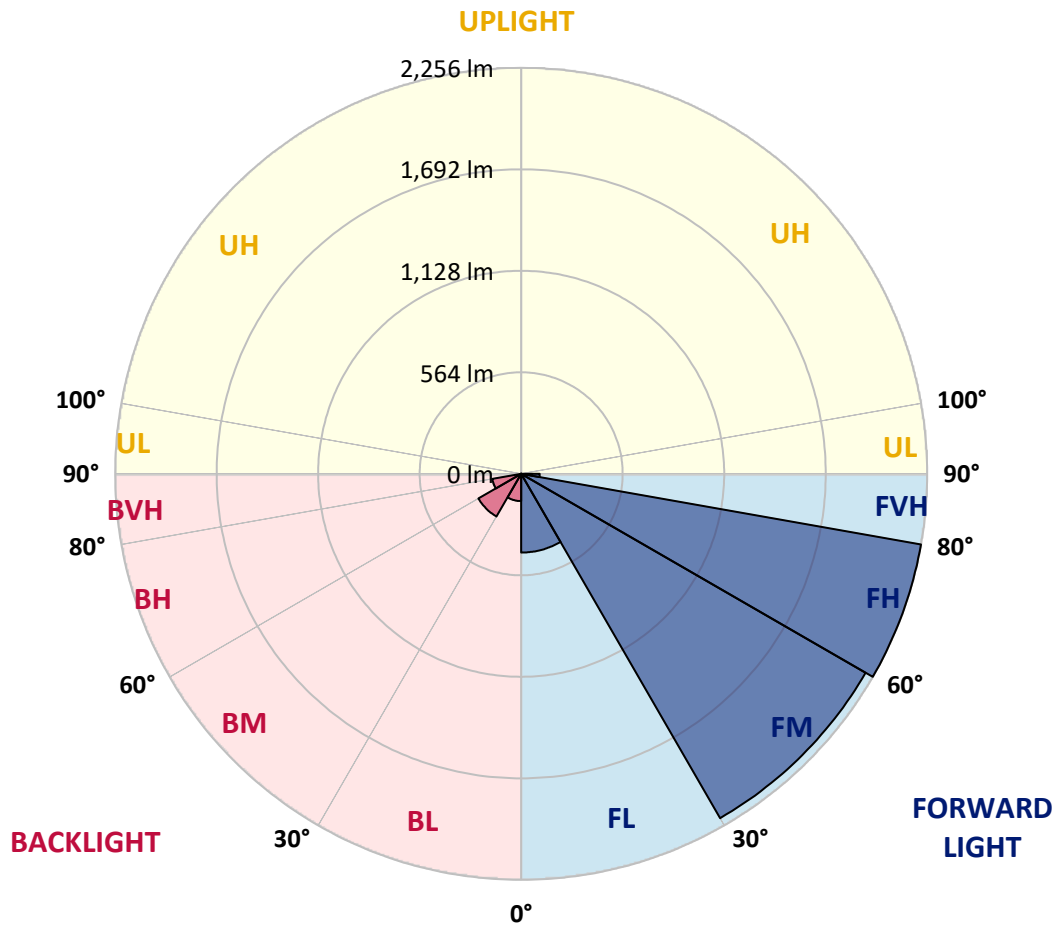
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	437.5	7.8			
FM	(30°-60°)	2209.2	39.5			
FH	(60°-80°)	2255.5	40.3			G2/5000
FVH	(80°-90°)	102.7	1.8			G2/225
BL	(0°-30°)	151.4	2.7	B1/500		
BM	(30°-60°)	274.0	4.9	B1/1000		
BH	(60°-80°)	163.0	2.9	B1/500		G1/500
BVH	(80°-90°)	2.6	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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	827.5	827.5	827.5	827.5	827.5	827.5	827.5	827.5	827.5	827.5	827.5
2.5°	918.1	913.0	913.7	905.0	898.8	892.2	879.4	877.6	868.4	852.4	835.9
5°	998.1	994.8	991.9	982.1	969.3	953.2	931.6	924.0	907.2	879.4	847.2
7.5°	1056.6	1052.6	1054.0	1044.2	1033.9	1016.0	986.4	972.2	949.9	907.5	858.9
10°	1067.9	1065.7	1075.2	1078.9	1078.9	1067.5	1038.7	1024.4	991.9	937.9	871.0
12.5°	1004.3	1004.7	1028.5	1057.0	1094.2	1104.8	1085.5	1070.1	1038.0	970.0	886.3
15°	930.2	930.5	953.6	990.1	1051.1	1112.1	1127.5	1117.6	1084.4	1004.7	904.2
17.5°	885.6	883.8	899.1	929.1	993.0	1078.9	1153.0	1159.6	1132.6	1043.1	924.0
20°	879.4	876.1	884.1	899.1	944.8	1037.2	1156.0	1187.0	1182.3	1086.5	946.6
22.5°	917.4	912.3	907.9	908.6	928.0	1002.5	1148.7	1202.4	1233.4	1138.8	977.7
25°	992.7	984.6	970.4	952.1	948.1	995.2	1143.5	1219.2	1280.9	1205.7	1018.6
27.5°	1084.7	1073.4	1046.0	1018.6	995.2	1015.7	1154.1	1245.8	1334.6	1283.5	1066.1
30°	1185.9	1172.0	1144.6	1092.8	1055.5	1061.3	1179.3	1280.9	1403.3	1371.5	1125.6
32.5°	1334.6	1302.5	1254.6	1175.3	1126.0	1110.7	1217.3	1325.5	1488.4	1488.8	1211.9
35°	1462.1	1444.2	1396.0	1297.4	1196.2	1176.1	1267.4	1388.3	1606.4	1644.1	1332.4
37.5°	1545.8	1521.3	1478.9	1404.8	1305.0	1243.3	1334.3	1465.4	1731.4	1820.9	1481.1
40°	1639.3	1615.2	1558.9	1489.2	1431.4	1358.7	1418.6	1554.2	1868.4	2002.5	1651.0
42.5°	1752.2	1720.8	1654.3	1579.0	1518.8	1510.7	1529.0	1664.9	2009.1	2199.8	1827.8
45°	1884.8	1855.2	1778.9	1683.9	1630.9	1616.7	1667.8	1793.9	2165.8	2416.1	2006.5
47.5°	2009.1	1974.7	1892.5	1805.9	1747.1	1702.2	1815.4	1946.2	2343.3	2642.2	2175.3
50°	2114.6	2079.6	2004.3	1911.9	1872.0	1813.2	1960.5	2116.1	2519.4	2872.0	2329.5
52.5°	2187.0	2155.9	2067.5	2004.7	1977.6	1948.0	2130.3	2296.2	2694.8	3082.4	2481.8
55°	2170.5	2142.8	2065.0	2060.6	2058.7	2089.8	2333.5	2500.4	2873.5	3281.6	2633.4
57.5°	2118.3	2086.9	1989.7	2056.5	2121.2	2216.2	2553.4	2741.9	3069.3	3469.4	2779.6
60°	1964.5	1953.5	1894.3	2048.9	2147.5	2340.1	2804.8	2984.5	3281.2	3634.5	2909.3
62.5°	1639.0	1648.5	1648.1	2065.0	2195.0	2481.1	3033.1	3230.0	3488.4	3793.4	3024.7
65°	1227.2	1260.1	1302.1	1920.3	2258.6	2732.8	3306.0	3496.4	3698.8	3978.3	3142.0
67.5°	824.6	850.9	879.4	1575.4	2069.3	2997.3	3759.4	3861.4	3950.9	4183.2	3273.9
70°	472.0	480.4	520.3	983.9	1595.1	2924.3	4497.8	4534.7	4326.8	4435.7	3370.0
72.5°	264.5	261.6	314.2	466.9	891.5	2504.1	4756.5	5116.3	4663.3	4431.7	3155.5
75°	176.8	177.2	216.3	294.5	347.4	1752.9	4098.8	4744.1	4461.6	3929.7	2578.3
77.5°	120.6	124.6	158.9	227.6	160.8	855.3	2711.6	3323.2	3612.2	3034.6	1780.0
80°	52.2	52.6	104.9	163.3	108.5	272.2	1405.9	1780.3	2265.5	1704.0	705.1
82.5°	27.0	30.7	66.9	105.6	68.3	95.4	664.2	777.8	950.6	500.2	144.7
85°	9.5	11.3	41.3	51.9	34.3	34.0	231.3	235.6	201.3	75.3	39.8
87.5°	0.0	1.8	16.1	12.8	4.4	4.0	27.4	23.0	18.3	10.6	13.2
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°	827.5	827.5	827.5	827.5	827.5	827.5	827.5	827.5	827.5	827.5	827.5
2.5°	828.2	818.4	802.3	782.6	759.6	747.1	729.2	718.3	708.4	708.8	716.8
5°	829.3	812.9	772.0	728.5	680.3	644.8	605.4	577.6	556.4	551.3	559.0
7.5°	832.6	804.9	738.0	665.7	585.3	525.7	471.3	437.0	417.6	412.5	417.6
10°	837.0	796.1	699.6	588.9	489.2	417.6	372.3	350.4	341.6	335.0	339.0
12.5°	840.7	787.0	651.4	509.7	403.7	347.8	313.5	295.2	287.5	282.8	285.3
15°	846.9	774.9	599.2	435.9	346.0	300.3	267.8	254.3	252.1	252.8	253.9
17.5°	853.1	763.2	540.7	378.1	303.6	258.7	238.9	236.7	239.7	242.6	243.7
20°	860.0	746.4	481.5	334.7	264.5	229.8	224.7	226.2	227.6	232.7	234.2
22.5°	870.3	725.2	429.7	297.8	232.0	215.9	213.4	214.5	215.6	220.7	222.1
25°	884.9	702.6	387.6	263.8	211.5	204.6	202.0	202.0	203.5	208.2	210.1
27.5°	900.2	670.4	353.7	232.4	199.5	192.2	187.8	187.8	189.6	195.1	197.3
30°	917.4	641.2	327.0	209.0	189.3	179.8	173.9	172.4	174.6	181.6	183.4
32.5°	948.4	622.2	308.0	198.0	180.1	168.4	160.4	156.4	158.6	166.6	168.8
35°	995.6	617.8	294.8	192.5	171.3	158.2	146.9	140.7	142.5	150.9	153.4
37.5°	1050.7	626.9	282.0	185.2	162.9	148.3	133.4	125.3	128.2	135.9	138.1
40°	1130.0	664.9	272.2	179.8	154.5	136.6	119.8	111.8	116.5	123.1	124.2
42.5°	1225.7	732.5	269.6	174.6	144.3	124.2	107.4	101.6	105.2	111.4	112.5
45°	1344.5	818.7	281.3	168.1	133.0	112.2	97.5	94.3	95.4	101.6	104.5
47.5°	1472.0	907.2	313.5	162.2	123.1	102.3	89.9	87.0	86.2	92.1	95.7
50°	1601.0	985.7	351.5	157.8	116.2	94.3	84.0	80.4	78.5	82.2	83.7
52.5°	1728.5	1048.2	376.3	150.5	109.2	86.2	78.9	73.4	70.1	72.0	73.4
55°	1857.8	1103.0	377.8	139.6	102.7	81.1	73.8	67.6	63.6	63.6	64.3
57.5°	1978.7	1151.2	356.2	124.9	93.5	76.4	66.9	61.7	57.4	55.9	56.3
60°	2085.8	1187.0	320.4	108.5	85.5	70.1	59.9	55.9	50.4	47.5	46.8
62.5°	2181.1	1204.6	271.5	91.7	75.6	62.8	53.3	49.0	41.6	38.0	37.6
65°	2261.9	1186.7	220.3	76.0	67.2	54.8	45.7	41.3	33.2	28.9	28.9
67.5°	2341.9	1104.8	166.6	63.9	58.5	46.0	37.6	33.6	27.8	24.1	24.1
70°	2352.1	932.7	116.5	53.7	48.6	35.4	30.3	27.8	22.7	19.4	19.0
72.5°	2093.8	671.1	70.9	43.8	38.0	25.2	24.1	21.9	16.8	14.6	14.2
75°	1673.7	411.4	41.6	32.9	25.2	17.9	17.9	15.7	11.3	9.5	9.5
77.5°	1156.7	215.2	24.5	21.2	15.0	10.6	11.7	9.5	5.5	4.4	4.4
80°	463.3	81.8	13.2	9.9	6.9	4.7	4.0	2.2	1.1	0.7	1.1
82.5°	92.4	21.6	4.4	2.6	2.6	1.1	0.0	0.0	0.0	0.0	0.0
85°	23.7	4.7	1.1	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.3	0.0	0.0	0.0	0.0	0.0	0.0	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)