

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: P939231

Luminaire Tested: **GALN-SB1D-727-U-SL4-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939231
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB1D-727-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2700K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV SPILL LIGHT
ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6591 lumens
Efficiency: N/A
Efficacy: 82.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 79.6
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

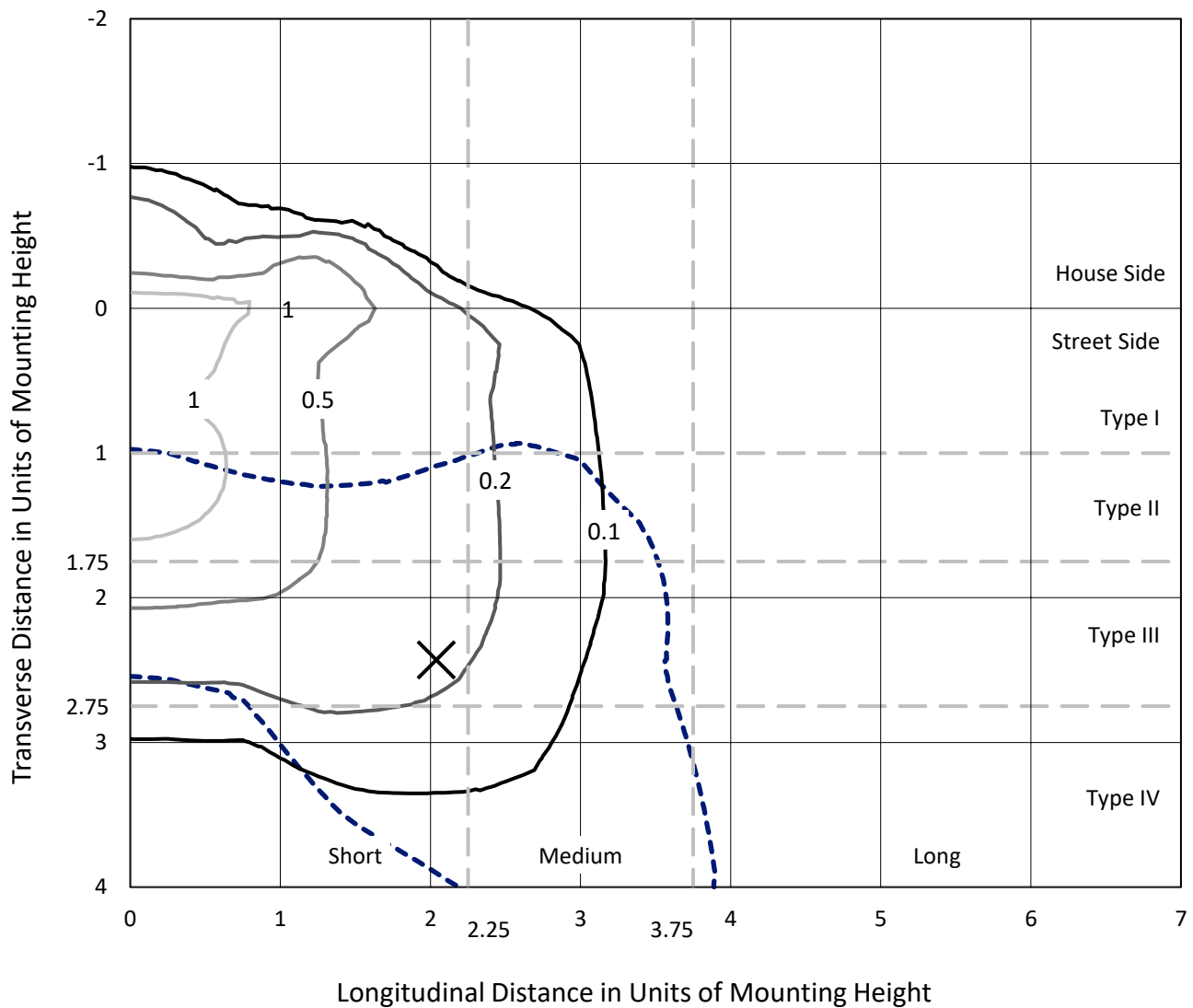


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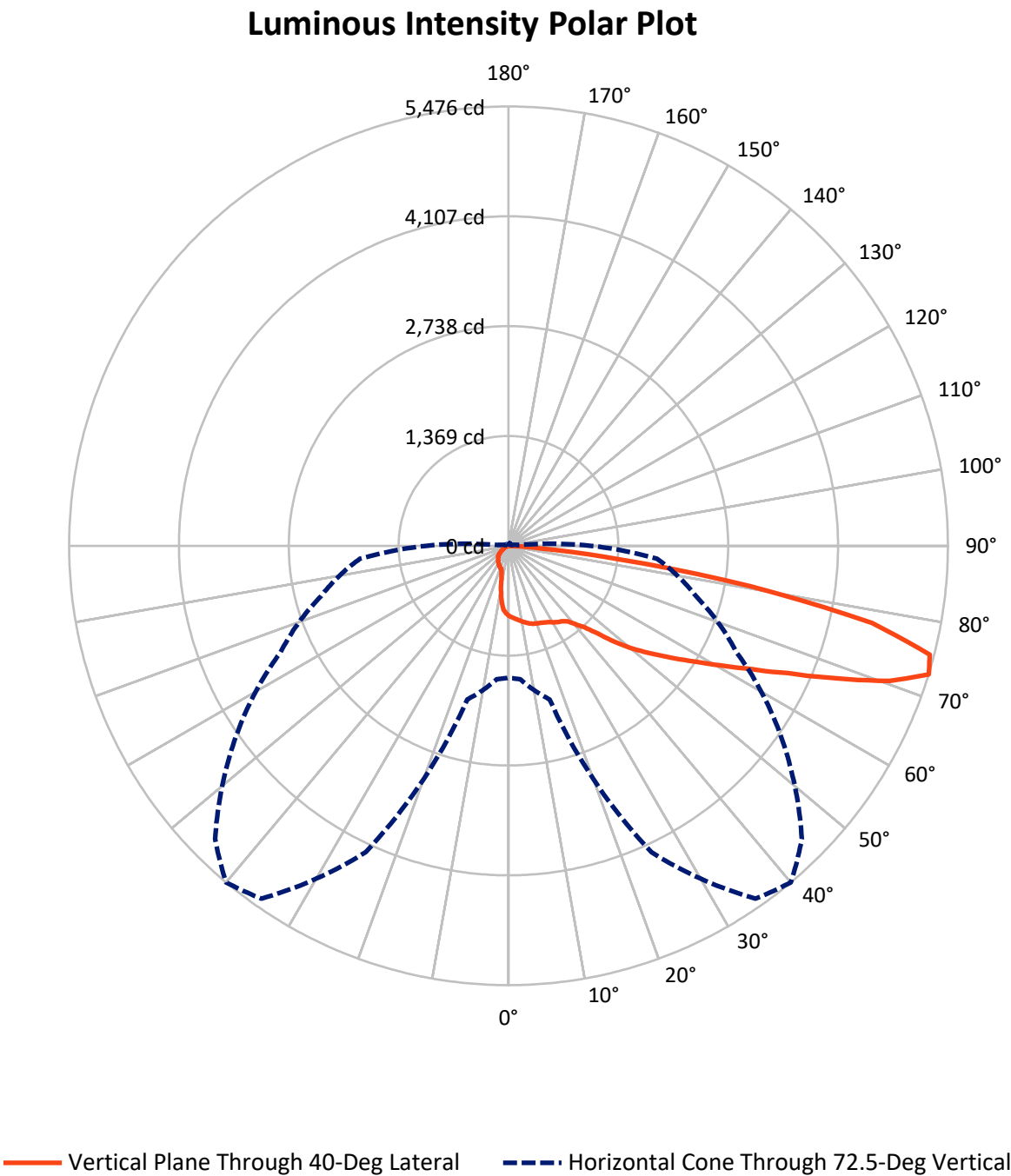
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



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

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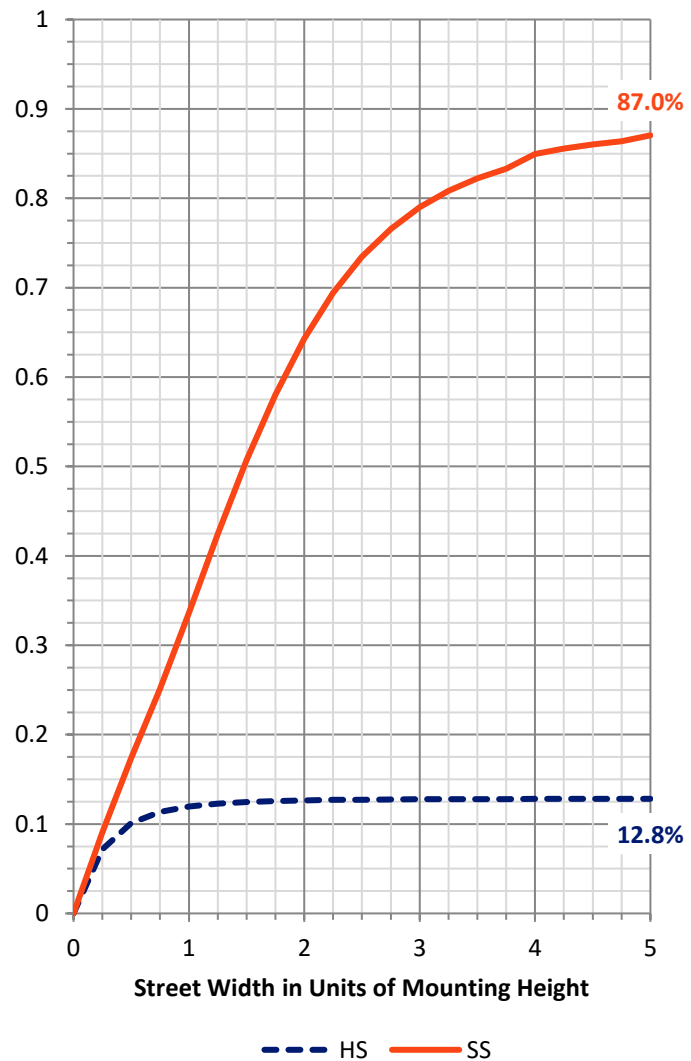
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	851.2	0.0	851.2
	% Fixture	12.9	0.0	12.9
Street Side	Lumens	5739.8	0.0	5739.8
	% Fixture	87.1	0.0	87.1
Total	Lumens	6591.0	0.0	6591.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.7	1.2
10°-20°	216.4	3.3
20°-30°	350.2	5.3
30°-40°	517.0	7.8
40°-50°	870.2	13.2
50°-60°	1351.2	20.5
60°-70°	1690.7	25.7
70°-80°	1384.2	21.0
80°-90°	131.3	2.0
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°	6591.0	100.0
0°-180°	6591.0	100.0

Coefficient of Utilization



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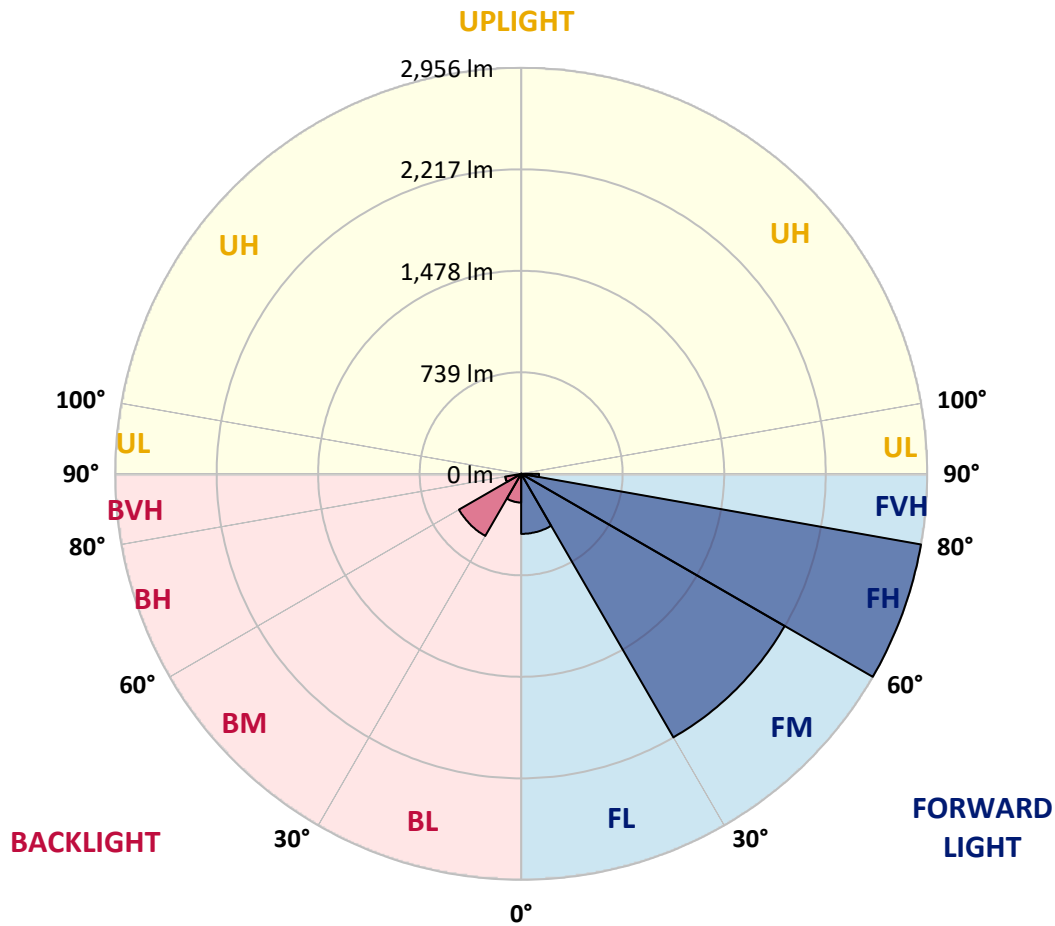
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	437.4	6.6			
FM	(30°-60°)	2215.8	33.6			
FH	(60°-80°)	2956.4	44.9			G2/5000
FVH	(80°-90°)	130.3	2.0			G2/225
BL	(0°-30°)	208.9	3.2	B1/500		
BM	(30°-60°)	522.7	7.9	B1/1000		
BH	(60°-80°)	118.6	1.8	B1/500		G1/500
BVH	(80°-90°)	1.0	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°	35°	40°	45°	55°	65°	75°	85°
0°	872.7	872.7	872.7	872.7	872.7	872.7	872.7	872.7	872.7	872.7	872.7
2.5°	899.0	902.5	900.5	896.5	895.5	893.6	891.1	890.1	886.6	883.6	880.1
5°	924.3	927.8	925.3	919.9	917.4	914.9	911.4	908.4	901.5	895.0	887.1
7.5°	952.1	955.1	952.1	944.2	940.2	937.2	932.3	927.8	919.9	910.4	900.5
10°	982.9	985.4	980.9	970.5	964.0	959.6	955.1	950.1	942.7	932.3	920.4
12.5°	1011.7	1014.7	1007.7	995.3	987.9	983.4	978.4	974.5	967.0	957.1	944.7
15°	1038.0	1042.5	1030.6	1017.2	1008.7	1005.2	1000.3	997.8	992.8	985.9	974.5
17.5°	1057.9	1060.8	1048.4	1032.5	1023.1	1020.6	1017.2	1018.6	1017.7	1014.2	1006.7
20°	1074.7	1076.7	1060.3	1041.0	1030.6	1031.1	1030.1	1035.0	1037.0	1037.0	1036.5
22.5°	1095.6	1096.1	1075.2	1050.9	1038.5	1042.0	1043.5	1048.9	1052.9	1056.9	1065.8
25°	1122.9	1121.9	1097.1	1063.8	1052.9	1057.9	1061.3	1063.3	1067.8	1074.2	1094.6
27.5°	1163.6	1160.6	1128.9	1084.7	1071.8	1076.2	1082.7	1081.7	1079.7	1084.7	1118.9
30°	1215.2	1211.3	1169.1	1114.0	1102.0	1106.0	1108.0	1099.1	1084.7	1089.1	1140.3
32.5°	1297.1	1290.2	1231.6	1146.7	1128.4	1132.8	1130.3	1112.0	1090.6	1095.1	1161.6
35°	1439.6	1422.7	1339.8	1215.2	1158.1	1153.2	1147.2	1129.3	1103.0	1098.6	1179.5
37.5°	1742.4	1712.6	1571.2	1348.8	1225.7	1193.4	1175.0	1157.1	1116.4	1098.6	1199.8
40°	2084.0	2053.7	1890.4	1572.2	1337.8	1283.2	1239.6	1189.9	1130.3	1105.0	1231.6
42.5°	2440.4	2407.1	2239.3	1849.2	1498.2	1386.0	1304.6	1216.2	1153.2	1124.9	1273.8
45°	2838.5	2796.8	2577.4	2138.1	1731.0	1556.8	1409.3	1270.3	1192.9	1160.1	1331.4
47.5°	3258.5	3204.4	2914.5	2418.5	1981.7	1793.1	1600.9	1367.1	1251.5	1212.7	1409.3
50°	3630.8	3577.2	3262.5	2711.9	2216.0	2017.9	1819.4	1501.2	1339.3	1287.2	1514.1
52.5°	3898.4	3857.7	3579.2	3014.7	2459.7	2228.9	2017.4	1657.0	1450.5	1382.5	1637.7
55°	4077.6	4040.3	3803.6	3301.7	2743.2	2461.2	2212.5	1826.3	1584.6	1496.7	1774.2
57.5°	4186.3	4164.9	3965.9	3557.8	3024.2	2715.4	2435.9	2012.5	1742.4	1631.2	1926.6
60°	4225.0	4207.6	4066.7	3802.1	3363.7	3020.7	2698.5	2222.5	1934.0	1784.1	2083.0
62.5°	4121.8	4125.2	4139.1	4091.5	3721.6	3378.1	3013.3	2474.6	2146.5	1957.4	2229.9
65°	3635.8	3664.6	3928.6	4412.2	4195.7	3825.9	3413.9	2782.4	2389.8	2154.5	2346.6
67.5°	3010.3	3052.0	3380.6	4599.8	4701.1	4407.2	3971.8	3174.6	2679.7	2355.0	2390.7
70°	2304.4	2349.0	2747.2	4560.6	5174.2	5042.6	4661.9	3673.5	2980.0	2494.0	2278.1
72.5°	1644.6	1667.5	1981.2	4211.6	5368.3	5475.5	5170.2	4146.1	3133.4	2417.1	1858.1
75°	1155.7	1151.7	1359.7	3391.5	5065.9	5422.9	4992.0	3890.4	2835.5	1920.1	1145.7
77.5°	503.4	504.4	679.1	2059.6	4043.3	4631.6	4149.6	2436.9	1976.7	1017.7	483.5
80°	130.6	134.5	249.2	820.1	2434.4	3056.9	2530.7	1071.3	913.4	248.2	92.3
82.5°	46.2	49.1	114.7	257.6	898.0	1401.9	1126.9	342.5	238.3	71.0	24.8
85°	13.4	15.9	61.6	78.9	185.7	396.1	273.5	66.5	58.6	36.7	6.5
87.5°	0.0	2.0	12.4	10.9	10.9	7.4	13.9	7.4	9.4	4.5	2.0
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°	872.7	872.7	872.7	872.7	872.7	872.7	872.7	872.7	872.7	872.7	872.7
2.5°	877.2	873.7	866.2	858.3	850.9	843.9	841.9	834.5	831.0	831.5	831.0
5°	881.6	875.2	860.8	843.4	825.5	805.2	788.3	764.5	744.1	741.6	740.2
7.5°	893.6	883.1	859.8	826.0	781.4	725.3	673.1	621.5	592.2	576.3	575.3
10°	911.9	898.0	862.3	797.7	702.9	602.7	523.7	458.7	425.4	410.0	407.1
12.5°	933.8	918.4	866.2	749.6	601.7	470.1	384.7	345.0	338.1	337.1	336.6
15°	964.5	947.7	870.7	684.6	491.9	357.9	318.7	319.2	324.7	327.6	327.1
17.5°	998.8	981.9	864.3	605.1	383.7	305.8	304.8	309.3	317.2	320.2	319.7
20°	1033.5	1017.7	841.4	511.8	310.3	291.4	295.4	300.3	308.3	312.2	312.2
22.5°	1069.3	1055.4	805.2	412.5	280.0	281.0	285.9	290.9	299.8	304.3	304.3
25°	1107.5	1095.6	757.0	330.6	267.1	270.1	276.5	282.5	291.9	297.4	297.4
27.5°	1146.2	1137.3	702.4	276.0	255.2	258.6	266.1	274.0	283.5	289.9	290.4
30°	1188.4	1183.5	658.7	255.7	243.7	246.7	255.2	264.1	274.5	282.5	283.5
32.5°	1231.6	1230.6	637.4	270.5	233.3	235.3	242.7	251.7	264.6	274.5	275.5
35°	1274.3	1276.3	625.0	312.7	229.8	224.4	229.3	237.3	252.7	265.1	267.1
37.5°	1328.9	1333.9	624.5	358.4	238.3	213.5	216.9	222.4	235.8	250.2	252.7
40°	1410.3	1436.6	656.3	397.6	253.2	203.5	204.5	205.5	212.5	224.4	228.4
42.5°	1518.5	1595.5	770.9	424.4	259.1	194.6	191.1	185.7	184.7	191.1	194.6
45°	1653.1	1787.6	972.5	439.3	253.2	184.7	175.2	160.8	155.4	159.8	159.8
47.5°	1811.4	1998.1	1211.3	442.8	243.2	172.3	155.4	136.5	132.0	133.5	133.0
50°	1965.8	2155.9	1421.2	414.0	226.9	156.4	133.5	117.7	114.7	115.2	115.2
52.5°	2102.3	2210.1	1480.8	346.0	205.0	137.0	114.7	103.8	101.8	101.8	101.3
55°	2192.7	2151.5	1320.5	264.6	177.7	117.2	98.3	92.8	91.8	91.3	90.3
57.5°	2211.5	1960.8	997.3	191.1	139.0	98.8	87.4	84.4	82.4	80.4	79.4
60°	2144.0	1643.1	634.9	133.5	104.2	84.4	77.4	75.5	71.5	67.5	66.0
62.5°	1998.1	1241.0	351.5	92.8	83.9	72.0	68.5	66.0	58.6	52.1	50.1
65°	1802.0	825.0	155.4	72.5	68.5	60.6	58.6	55.1	46.2	38.7	37.2
67.5°	1604.9	475.1	70.0	58.1	55.1	49.6	48.2	45.7	39.2	32.3	31.3
70°	1380.0	240.8	48.2	46.2	42.7	37.7	39.2	38.7	32.3	26.3	25.3
72.5°	1027.6	119.6	36.2	34.7	30.8	26.8	32.3	31.8	25.3	19.9	18.9
75°	581.8	59.1	26.3	24.3	18.4	19.9	25.8	24.3	17.4	12.9	11.9
77.5°	230.8	30.3	17.4	14.9	10.9	13.4	18.9	16.4	8.9	5.5	5.0
80°	53.1	14.9	8.9	6.5	5.0	7.9	9.9	6.0	2.5	0.5	0.0
82.5°	14.9	6.5	3.0	2.5	2.5	3.0	2.5	1.0	0.0	0.0	0.0
85°	5.0	3.0	1.0	0.5	0.5	0.5	0.5	0.0	0.0	0.0	0.0
87.5°	2.0	1.0	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)