

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: P945937

Luminaire Tested: **GALN-SB1D-727-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945937
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)
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-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2700K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7216 lumens
Efficiency: N/A
Efficacy: 90.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - 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

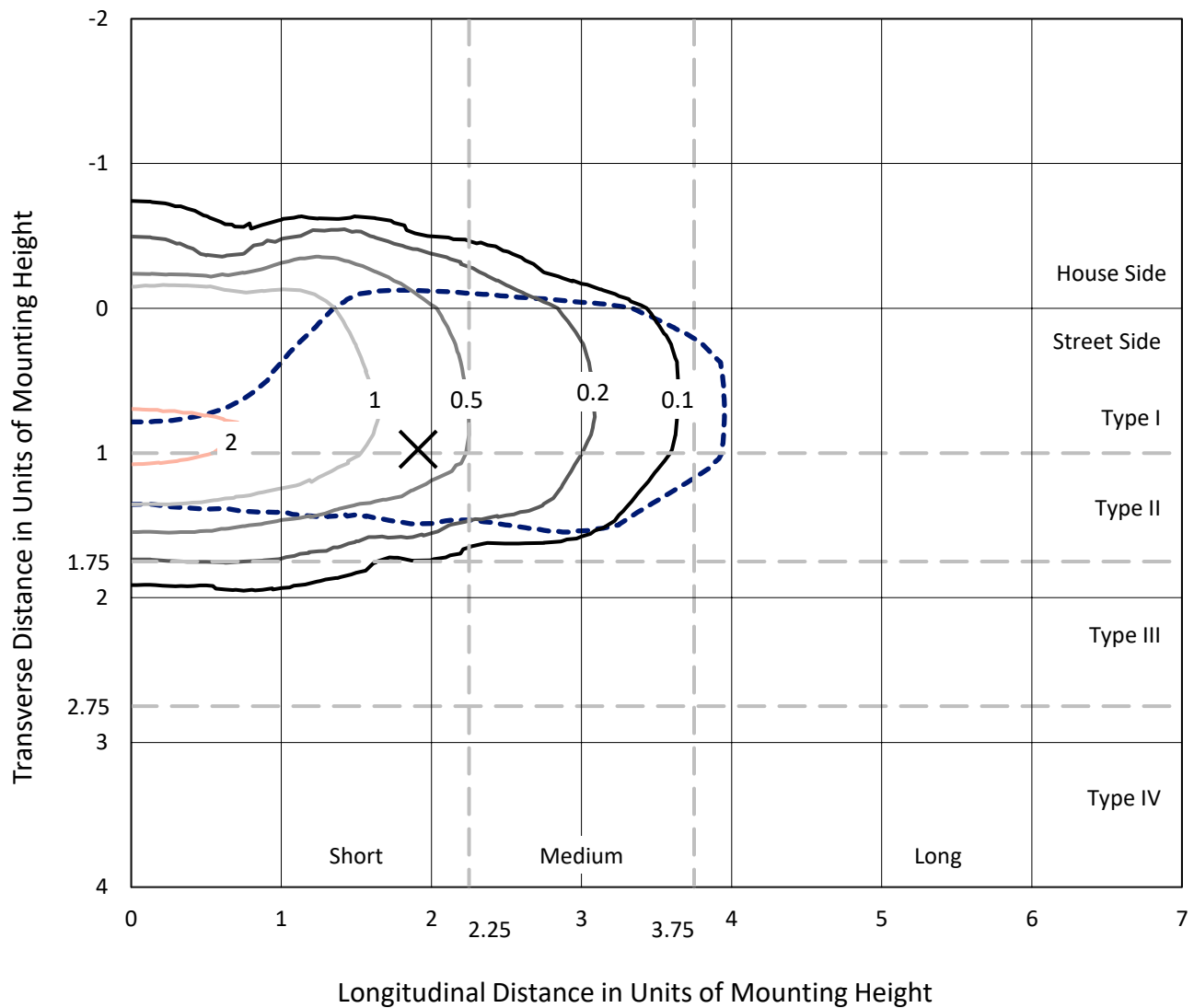


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Iso-Footcandle Lines of Horizontal Illumination

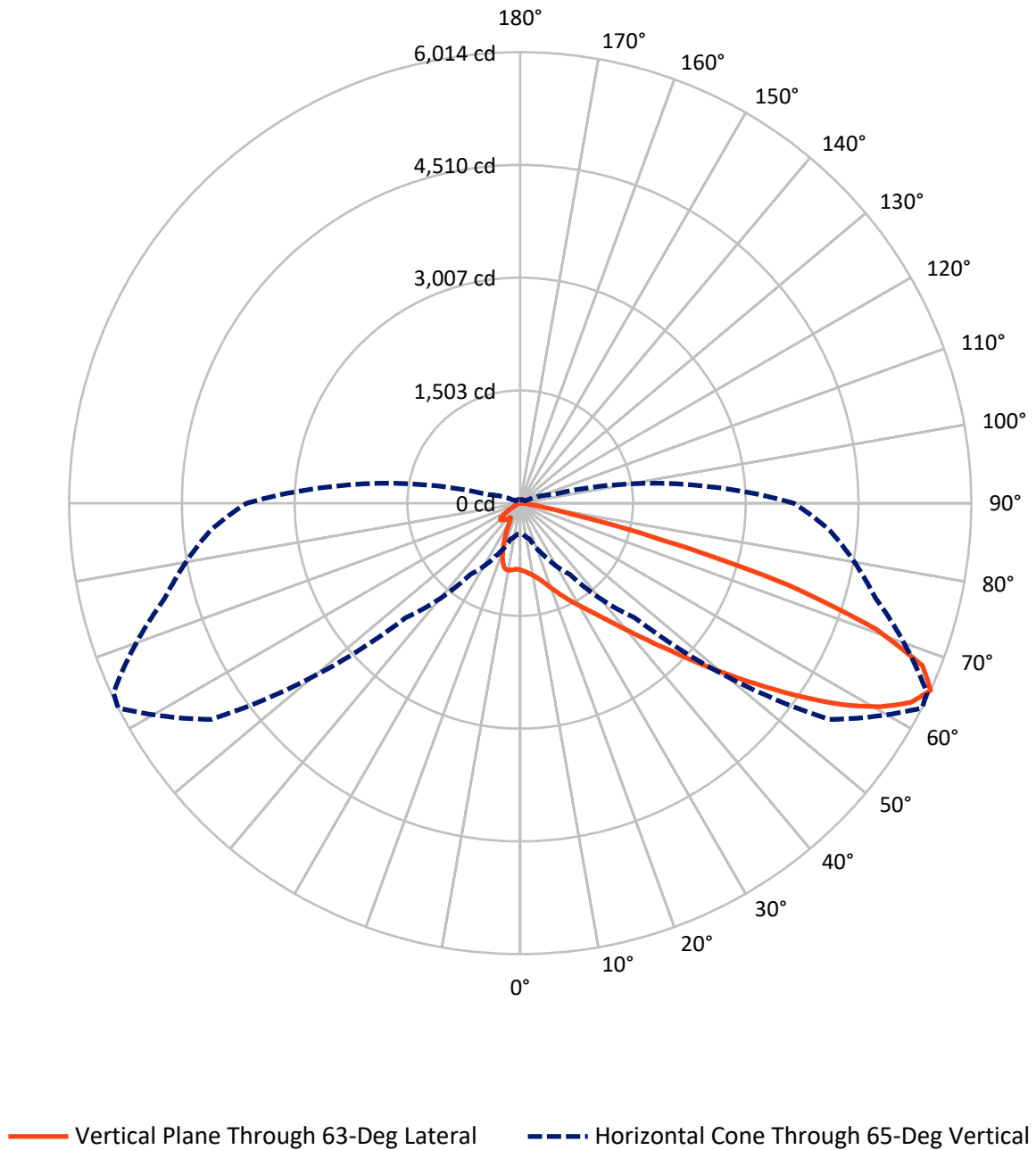
✕ Max cd
- - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1060.7	0.0	1060.7
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	6155.3	0.0	6155.3
	% Fixture	85.3	0.0	85.3
Total	Lumens	7216.0	0.0	7216.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.9	1.2
10°-20°	232.8	3.2
20°-30°	405.4	5.6
30°-40°	730.7	10.1
40°-50°	1449.2	20.1
50°-60°	1974.0	27.4
60°-70°	1575.7	21.8
70°-80°	713.0	9.9
80°-90°	51.3	0.7
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°	7216.0	100.0
0°-180°	7216.0	100.0

Coefficient of Utilization



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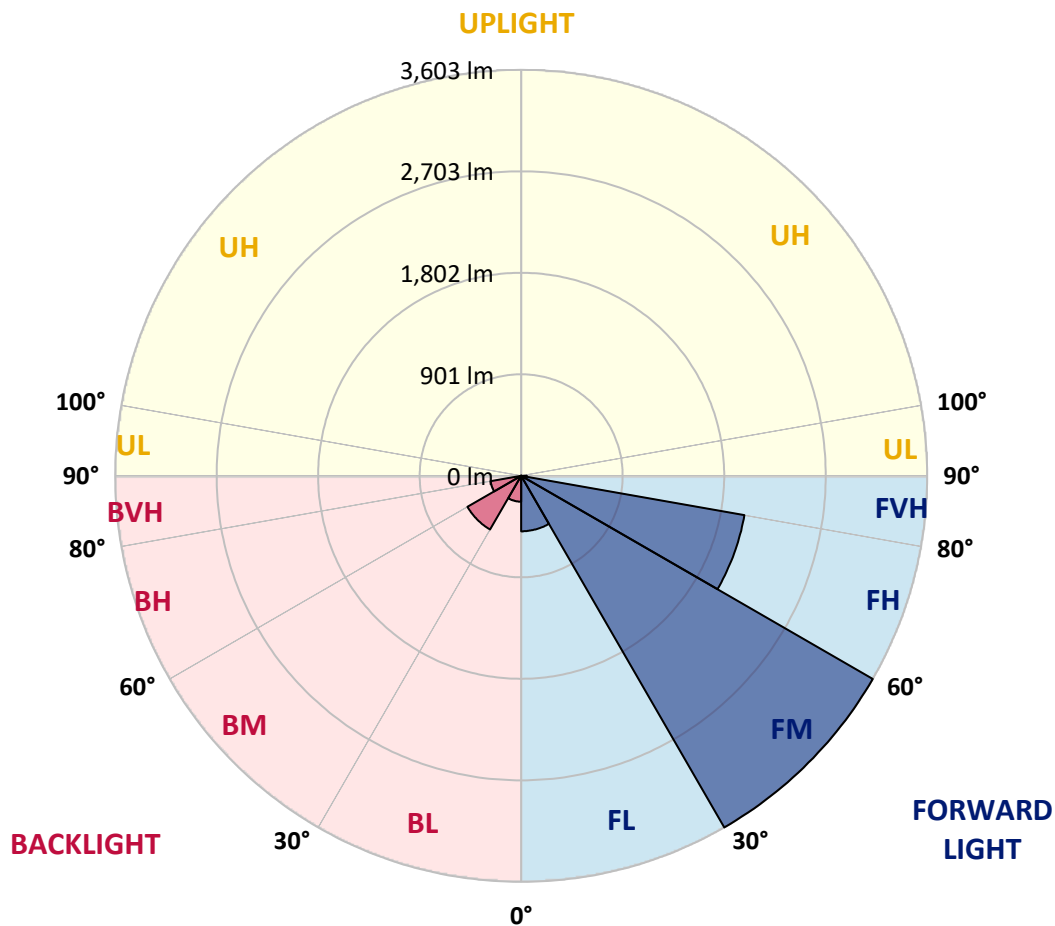
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	492.6	6.8			
FM	(30°-60°)	3603.5	49.9			
FH	(60°-80°)	2011.8	27.9			G2/5000
FVH	(80°-90°)	47.4	0.7			G1/100
BL	(0°-30°)	229.5	3.2	B1/500		
BM	(30°-60°)	550.4	7.6	B1/1000		
BH	(60°-80°)	276.9	3.8	B1/500		G1/500
BVH	(80°-90°)	3.8	0.1			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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	890.6	890.6	890.6	890.6	890.6	890.6	890.6	890.6	890.6	890.6	890.6
2.5°	911.4	909.0	912.4	910.9	910.0	908.0	907.0	906.0	904.0	902.5	896.5
5°	913.9	912.4	915.9	918.9	921.9	924.8	926.3	928.3	926.3	922.4	916.4
7.5°	893.1	892.1	899.5	908.5	921.9	933.3	945.7	952.6	953.1	951.7	945.2
10°	891.6	889.1	896.5	907.5	924.8	945.2	967.0	981.9	983.9	990.4	983.4
12.5°	914.9	912.4	922.9	934.8	952.6	974.0	1000.8	1021.6	1024.6	1033.6	1028.6
15°	954.1	950.7	962.6	978.0	1000.8	1025.1	1053.4	1072.3	1074.8	1085.7	1076.8
17.5°	999.8	996.3	1010.2	1026.6	1051.4	1084.7	1117.5	1138.3	1141.3	1148.2	1131.9
20°	1058.4	1053.9	1064.8	1079.7	1106.0	1145.8	1185.0	1214.8	1214.3	1214.3	1187.5
22.5°	1126.4	1119.4	1128.9	1140.8	1165.6	1213.8	1265.9	1301.1	1301.1	1287.2	1243.1
25°	1199.4	1192.4	1202.8	1213.8	1235.6	1290.2	1351.3	1395.0	1396.9	1373.1	1302.6
27.5°	1290.7	1281.8	1289.7	1302.6	1315.5	1371.1	1443.6	1494.2	1495.2	1458.5	1359.2
30°	1466.4	1441.1	1416.3	1402.4	1408.4	1463.5	1540.9	1597.0	1602.0	1551.3	1420.8
32.5°	1788.1	1783.2	1695.8	1581.6	1522.0	1562.8	1649.6	1717.1	1720.1	1655.1	1500.7
35°	2288.0	2282.1	2141.6	1924.2	1730.0	1695.8	1781.7	1861.6	1859.6	1786.1	1604.5
37.5°	2884.7	2879.3	2694.1	2403.2	2089.0	1896.8	1952.0	2035.8	2048.3	1952.0	1738.5
40°	3394.6	3374.2	3257.1	2976.6	2565.5	2230.4	2194.2	2249.8	2262.7	2148.5	1908.8
42.5°	3780.8	3763.4	3703.8	3528.6	3142.4	2723.9	2479.7	2501.0	2515.4	2378.4	2104.4
45°	3980.9	3976.9	4000.7	3984.3	3730.2	3329.5	2887.7	2798.9	2804.3	2633.1	2326.3
47.5°	4009.1	4007.2	4115.9	4269.8	4235.5	4012.6	3411.4	3170.2	3150.8	2920.5	2567.5
50°	3842.3	3838.4	4046.9	4335.3	4573.1	4586.5	4006.2	3588.7	3546.0	3217.8	2819.2
52.5°	3309.7	3308.7	3651.2	4131.3	4691.7	5088.9	4593.9	4048.4	3976.9	3532.6	3085.3
55°	2546.7	2565.0	2957.7	3525.1	4475.3	5330.6	5121.6	4558.7	4449.0	3849.3	3330.5
57.5°	1804.0	1830.8	2219.0	2724.4	3804.1	5187.7	5478.6	5070.0	4951.9	4165.0	3579.2
60°	969.0	992.9	1381.6	1984.7	2830.1	4654.5	5666.7	5513.8	5402.1	4464.9	3803.6
62.5°	577.3	585.3	746.1	1281.3	1914.2	3555.9	5586.8	5851.9	5760.0	4716.6	3998.7
65°	414.5	416.0	496.9	782.4	1162.1	2160.5	5026.3	6013.7	5985.4	4906.2	4143.2
67.5°	349.0	348.0	381.8	519.8	791.8	1082.2	3852.3	5784.9	5905.0	5026.3	4225.1
70°	299.3	300.8	340.5	380.8	595.2	612.6	1915.2	5036.8	5292.9	5058.1	4220.1
72.5°	222.9	227.9	264.6	347.0	449.3	421.5	661.2	3734.6	4197.8	4765.7	4001.2
75°	157.4	159.8	186.2	291.9	335.1	306.8	337.6	1930.6	2524.3	3653.7	3274.9
77.5°	121.1	125.6	141.0	204.0	330.1	215.4	206.5	668.2	1026.6	2207.1	2245.3
80°	65.5	73.5	101.8	147.4	231.8	152.4	102.3	266.1	348.0	1032.1	865.8
82.5°	33.8	37.7	71.0	106.2	132.0	133.0	50.6	110.7	143.5	318.7	118.6
85°	13.4	16.4	47.7	58.6	68.0	65.5	22.8	44.7	51.6	88.4	36.2
87.5°	3.0	5.0	17.4	13.4	12.9	13.9	5.5	10.4	9.9	10.4	6.5
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°	890.6	890.6	890.6	890.6	890.6	890.6	890.6	890.6	890.6	890.6	890.6
2.5°	896.1	894.1	888.6	882.6	875.7	871.7	869.2	868.7	865.3	862.8	865.3
5°	910.9	909.0	898.5	886.1	872.7	862.3	852.4	843.4	830.5	828.0	827.0
7.5°	940.7	935.3	918.4	901.5	876.2	845.9	809.2	767.0	729.3	717.8	712.4
10°	977.5	970.0	948.7	918.9	862.8	780.4	691.5	609.1	543.6	525.2	518.3
12.5°	1019.2	1012.7	984.4	929.3	806.7	657.3	521.2	419.0	355.4	339.6	335.1
15°	1068.8	1059.4	1020.2	913.4	706.4	499.4	357.9	297.4	274.5	271.5	268.6
17.5°	1121.4	1106.0	1051.9	856.3	571.4	354.9	276.5	259.1	249.2	246.2	244.7
20°	1169.6	1149.7	1070.8	770.0	426.9	276.5	247.7	236.3	227.4	223.9	221.9
22.5°	1217.7	1189.4	1070.8	652.3	320.2	245.2	227.4	216.9	206.5	202.0	199.6
25°	1267.9	1230.1	1051.9	521.2	257.6	224.9	208.0	196.6	187.6	182.2	180.2
27.5°	1316.5	1264.4	1008.7	397.1	229.3	207.0	190.1	179.2	170.8	166.8	166.8
30°	1362.7	1298.2	948.2	301.3	211.0	189.6	173.7	164.3	155.9	151.9	152.4
32.5°	1425.2	1340.9	883.6	247.2	195.1	173.3	158.9	149.9	142.5	139.5	139.5
35°	1512.1	1403.9	828.0	242.8	181.7	159.8	145.5	137.0	129.6	127.1	127.1
37.5°	1635.2	1505.7	798.8	272.5	170.8	147.9	134.5	125.6	118.6	116.7	116.2
40°	1787.1	1643.7	814.6	302.3	163.3	137.5	124.6	115.7	109.7	107.2	106.7
42.5°	1967.3	1813.9	902.5	325.2	158.4	128.6	115.2	105.2	101.3	100.3	100.3
45°	2174.4	2001.1	1037.0	349.5	150.4	120.1	105.7	98.3	95.3	94.8	94.3
47.5°	2409.7	2206.6	1192.9	379.8	142.5	112.2	98.3	93.3	90.8	89.9	89.9
50°	2643.0	2413.6	1353.3	396.6	136.0	104.7	92.3	88.4	86.4	85.9	85.9
52.5°	2887.2	2626.6	1482.8	380.8	130.6	98.8	87.4	84.4	82.4	81.9	81.9
55°	3120.0	2798.9	1505.2	323.2	119.6	92.8	81.9	80.4	77.9	77.9	77.4
57.5°	3320.6	2885.2	1347.3	237.3	108.7	83.9	76.4	75.0	73.0	72.5	72.0
60°	3504.8	2860.4	1040.0	159.8	96.8	75.0	69.5	68.5	66.5	64.0	63.5
62.5°	3608.5	2751.2	711.4	104.2	84.9	65.5	61.6	61.1	56.6	51.6	50.6
65°	3647.7	2526.8	443.8	76.0	71.0	56.1	53.1	52.1	45.7	40.2	39.7
67.5°	3613.5	2157.5	223.9	60.1	56.1	46.7	43.7	43.7	39.2	34.3	33.8
70°	3476.5	1617.4	94.3	48.2	43.2	35.7	35.7	37.7	33.3	27.8	27.3
72.5°	3179.1	1088.2	50.1	36.7	32.3	25.3	29.3	30.8	26.3	20.8	20.8
75°	2527.3	663.7	34.7	27.3	20.4	17.9	22.3	23.3	17.9	13.9	13.4
77.5°	1728.6	381.3	23.3	17.4	12.9	10.4	15.4	14.4	9.4	6.5	6.9
80°	759.0	158.9	13.4	7.9	5.0	4.0	5.5	4.0	3.0	2.0	2.0
82.5°	88.9	37.2	5.0	3.0	2.0	1.0	0.5	0.0	0.0	0.0	0.0
85°	18.4	4.5	2.5	1.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.5	1.0	0.5	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)