

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: P945939

Luminaire Tested: **GALN-SB1D-727-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945939
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)
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-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2700K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7861 lumens
Efficiency: N/A
Efficacy: 98.8 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): 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

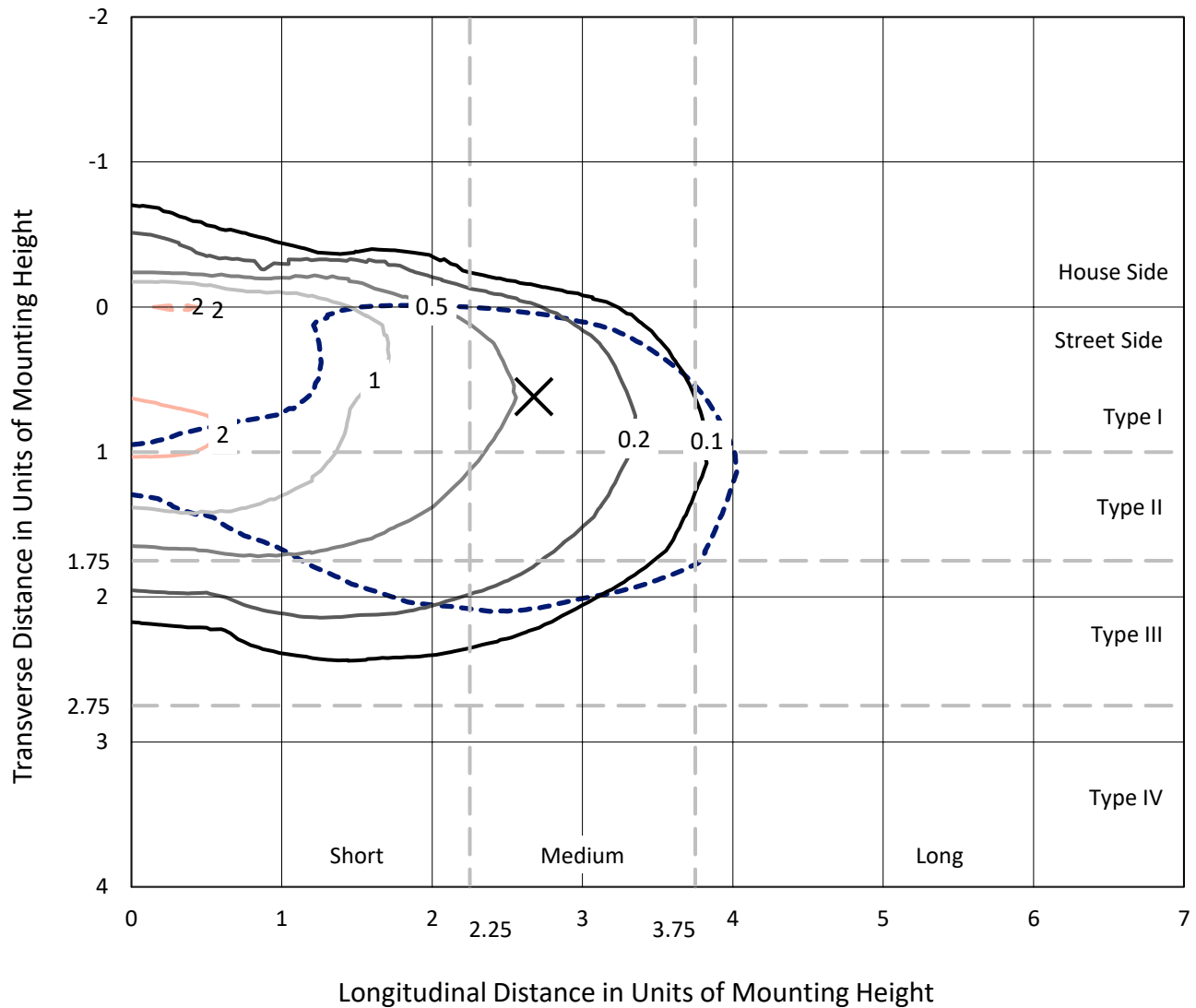


REPORT NUMBER: P945939

CATALOG NUMBER: GALN-SB1D-727-U-T3R-HSS

Iso-Footcandle Lines of Horizontal Illumination

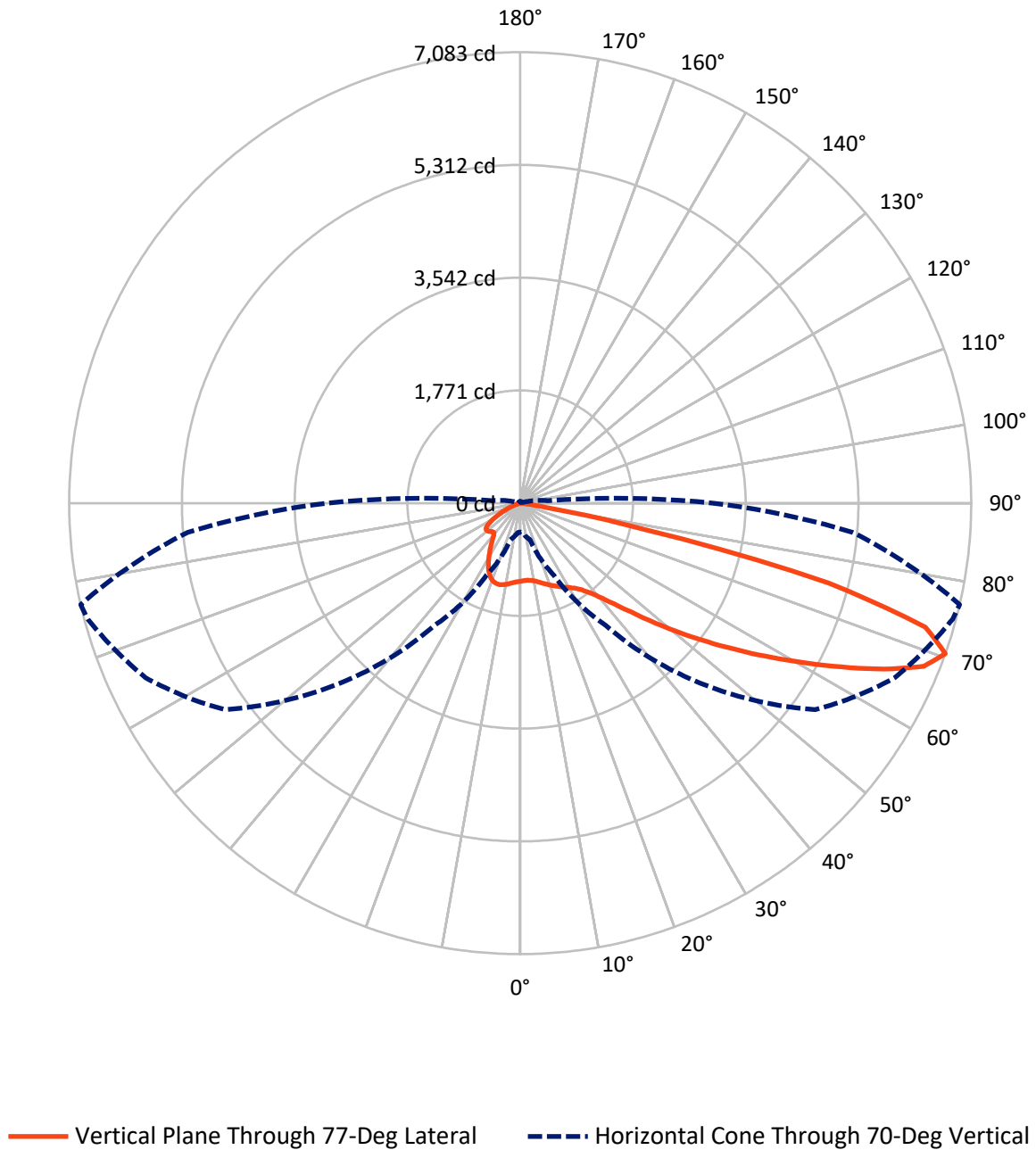
× Max cd
--- 1/2 Max cd



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

REPORT NUMBER: P945939
CATALOG NUMBER: GALN-SB1D-727-U-T3R-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P945939

CATALOG NUMBER: GALN-SB1D-727-U-T3R-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	828.7	0.0	828.7
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	7032.3	0.0	7032.3
	% Fixture	89.5	0.0	89.5
Total	Lumens	7861.0	0.0	7861.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.7	1.3
10°-20°	250.9	3.2
20°-30°	388.0	4.9
30°-40°	704.1	9.0
40°-50°	1329.0	16.9
50°-60°	1920.3	24.4
60°-70°	2044.2	26.0
70°-80°	1083.3	13.8
80°-90°	35.6	0.5
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°	7861.0	100.0
0°-180°	7861.0	100.0

Coefficient of Utilization



REPORT NUMBER: P945939

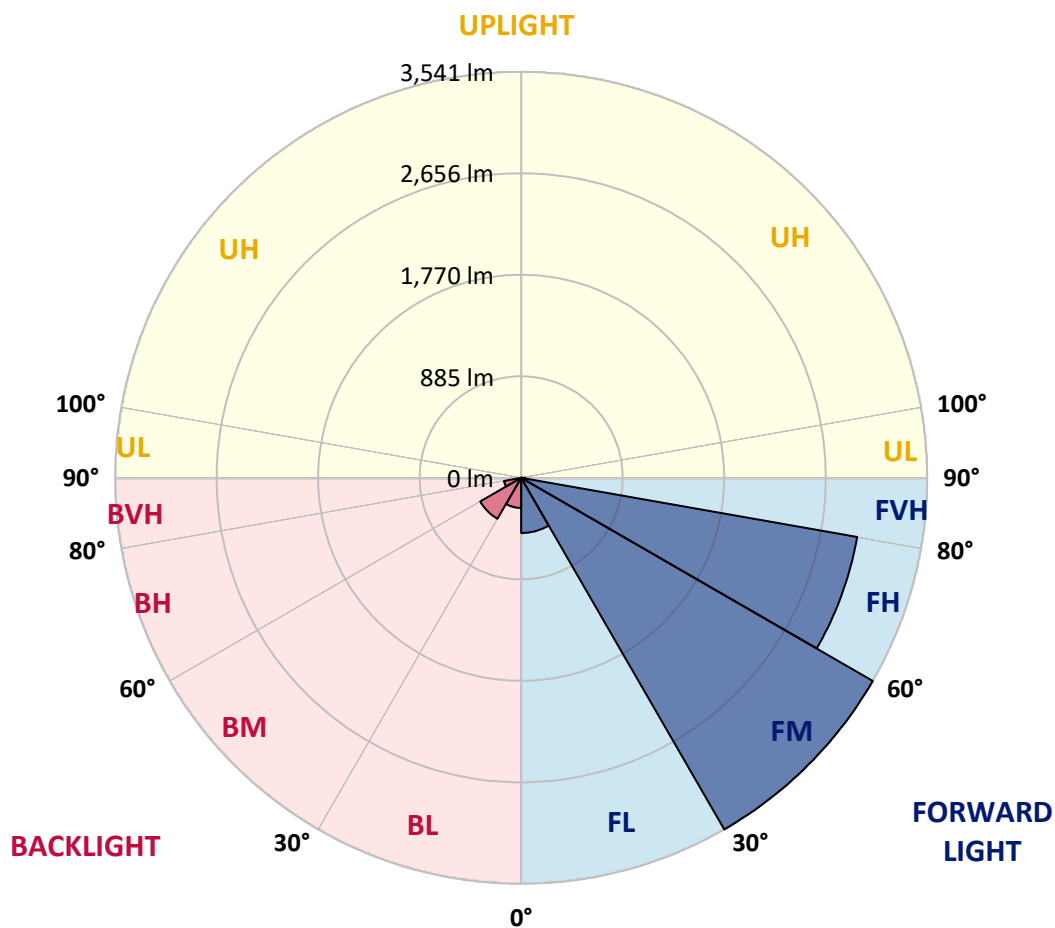
CATALOG NUMBER: GALN-SB1D-727-U-T3R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	481.3	6.1			
FM	(30°-60°)	3540.9	45.0			
FH	(60°-80°)	2975.5	37.9			G2/5000
FVH	(80°-90°)	34.6	0.4			G1/100
BL	(0°-30°)	263.3	3.3	B1/500		
BM	(30°-60°)	412.5	5.2	B1/1000		
BH	(60°-80°)	151.9	1.9	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 III Medium



REPORT NUMBER: P945939

CATALOG NUMBER: GALN-SB1D-727-U-T3R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	1226.2	1226.2	1226.2	1226.2	1226.2	1226.2	1226.2	1226.2	1226.2	1226.2	1226.2
2.5°	1151.2	1161.6	1160.1	1167.1	1169.6	1179.5	1189.4	1202.8	1217.7	1217.2	1227.2
5°	1086.2	1096.6	1099.1	1108.5	1120.4	1135.8	1156.2	1183.0	1210.8	1215.3	1235.1
7.5°	1009.2	1020.2	1026.6	1045.5	1067.3	1099.1	1132.3	1171.6	1217.7	1224.2	1262.4
10°	932.3	942.2	950.7	977.5	1012.2	1059.4	1113.5	1170.1	1232.1	1241.6	1295.7
12.5°	884.6	894.1	903.5	926.8	970.0	1027.6	1101.1	1177.0	1256.0	1269.4	1340.8
15°	867.8	876.2	883.6	904.5	944.7	1010.2	1098.6	1191.4	1286.2	1304.1	1395.5
17.5°	870.2	874.7	879.7	895.6	934.8	1002.3	1103.1	1216.2	1322.0	1337.9	1450.1
20°	884.6	887.1	887.6	898.5	933.3	1001.3	1112.0	1240.1	1355.7	1377.1	1504.2
22.5°	903.0	904.0	903.0	910.4	942.7	1008.7	1123.9	1268.9	1393.5	1413.3	1558.8
25°	988.9	970.0	946.2	931.8	958.6	1023.1	1141.8	1307.6	1434.7	1454.0	1611.9
27.5°	1255.5	1201.4	1116.0	1020.2	991.4	1044.0	1166.6	1346.8	1476.4	1493.7	1669.0
30°	1688.3	1617.4	1472.4	1256.5	1096.6	1087.7	1198.9	1386.0	1520.6	1539.4	1730.0
32.5°	2122.2	2104.8	1937.6	1638.7	1333.4	1185.0	1252.5	1439.1	1579.1	1594.0	1812.5
35°	2561.1	2525.8	2388.8	2093.4	1698.3	1383.0	1341.8	1508.6	1656.1	1673.0	1932.6
37.5°	2897.1	2875.8	2790.9	2547.7	2131.2	1688.8	1494.7	1616.4	1767.8	1786.6	2086.5
40°	3194.0	3184.1	3155.3	2994.9	2615.2	2089.0	1732.5	1783.2	1922.7	1945.0	2275.1
42.5°	3427.3	3450.7	3467.0	3422.4	3114.1	2545.7	2052.2	2017.5	2138.6	2161.4	2515.4
45°	3666.1	3674.1	3740.1	3804.6	3609.5	3023.2	2412.6	2292.0	2407.2	2435.5	2803.3
47.5°	3819.5	3851.3	3967.4	4081.1	4026.0	3496.8	2799.8	2616.2	2718.4	2771.6	3126.0
50°	3830.9	3891.0	4050.8	4248.9	4329.3	3947.6	3220.8	2985.5	3094.2	3152.8	3470.5
52.5°	3640.8	3734.1	3981.8	4271.8	4493.2	4329.3	3656.2	3354.9	3494.3	3570.8	3827.9
55°	2791.4	2913.5	3722.2	4147.6	4499.6	4618.8	4080.1	3739.6	3940.1	4026.5	4214.2
57.5°	2432.0	2493.6	2926.4	3932.2	4380.0	4735.4	4463.4	4105.9	4425.1	4532.4	4579.0
60°	2023.4	2104.4	2454.3	3579.7	4217.6	4746.8	4801.9	4578.5	4950.9	5071.5	4913.6
62.5°	1375.1	1463.0	1811.0	2974.1	3995.7	4741.4	5079.4	5065.0	5535.2	5664.7	5197.1
65°	851.9	907.0	1136.3	2428.5	3685.5	4747.3	5369.8	5655.8	6151.7	6283.3	5416.5
67.5°	673.2	698.5	818.1	1864.6	3150.8	4613.3	5659.8	6211.3	6732.0	6836.3	5483.5
70°	452.2	467.6	595.2	1250.0	2344.1	3994.7	5654.3	6490.3	7030.9	7083.0	5239.3
72.5°	238.3	250.2	348.0	578.8	1415.8	2839.6	4766.2	6156.7	6733.5	6655.1	4478.3
75°	119.1	139.0	234.3	293.9	604.6	1583.6	2959.7	4854.1	5299.9	4996.0	2873.3
77.5°	90.3	109.2	193.6	193.6	210.5	533.2	1253.5	2647.4	2441.9	2033.4	843.4
80°	57.6	74.5	169.3	146.4	87.9	135.5	326.6	741.7	518.8	394.7	153.4
82.5°	33.8	48.6	141.0	96.8	49.1	50.1	92.3	157.9	134.5	104.7	47.2
85°	13.4	31.8	96.8	38.2	19.4	12.4	27.8	33.8	27.8	20.8	11.9
87.5°	0.0	7.4	16.9	0.0	1.5	1.0	2.0	2.5	2.5	2.0	4.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P945939

CATALOG NUMBER: GALN-SB1D-727-U-T3R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1226.2	1226.2	1226.2	1226.2	1226.2	1226.2	1226.2	1226.2	1226.2	1226.2	1226.2
2.5°	1231.6	1232.6	1235.6	1236.1	1229.2	1220.2	1216.7	1215.3	1209.3	1208.8	1209.8
5°	1246.5	1251.0	1246.5	1233.6	1202.8	1159.7	1126.9	1100.1	1075.8	1068.3	1063.8
7.5°	1276.3	1280.8	1267.4	1216.7	1139.3	1053.4	976.0	921.4	872.2	853.9	846.4
10°	1319.0	1325.0	1282.8	1180.5	1043.5	905.5	774.4	682.1	610.1	580.8	568.4
12.5°	1372.6	1375.1	1291.2	1125.4	918.9	721.8	536.1	437.4	373.3	349.5	342.0
15°	1431.7	1428.2	1292.2	1050.4	749.1	510.3	350.0	287.4	261.6	253.7	253.7
17.5°	1493.7	1479.4	1272.3	942.2	562.9	349.0	259.6	244.7	240.3	238.3	237.8
20°	1554.8	1522.5	1236.1	800.7	404.1	260.6	235.8	231.3	228.9	227.9	226.9
22.5°	1610.4	1555.3	1174.0	636.4	293.4	230.3	222.9	218.9	214.5	212.5	212.0
25°	1664.5	1574.2	1086.7	483.0	234.8	215.4	209.5	202.0	196.1	193.6	192.6
27.5°	1717.1	1586.1	977.5	357.4	209.5	201.5	190.6	180.2	175.7	174.7	173.7
30°	1773.2	1590.1	853.4	266.6	194.1	184.2	168.3	156.4	153.9	154.4	154.4
32.5°	1841.7	1596.0	728.3	218.4	181.2	163.3	144.5	132.0	130.1	132.0	131.6
35°	1923.7	1607.9	607.6	201.1	169.8	142.0	121.6	111.2	109.2	110.7	110.2
37.5°	2034.9	1627.3	494.9	197.6	160.3	124.1	102.3	93.8	93.8	94.3	93.8
40°	2182.8	1678.9	394.2	195.1	155.4	110.7	86.4	82.9	84.4	85.4	85.4
42.5°	2363.0	1788.6	326.2	192.1	149.9	104.7	78.4	76.9	79.4	80.4	80.4
45°	2565.0	1927.6	302.3	187.2	145.0	108.7	75.0	73.0	76.0	76.4	76.9
47.5°	2774.0	2063.6	299.3	181.7	140.0	114.7	74.0	69.5	73.0	73.5	74.0
50°	2985.5	2152.5	302.3	173.3	132.0	114.7	74.5	66.0	69.0	70.5	71.0
52.5°	3198.5	2193.2	300.3	154.9	118.1	107.7	74.5	63.0	66.0	67.0	67.0
55°	3405.0	2185.3	270.1	127.6	100.3	95.3	72.5	60.6	62.5	63.0	63.0
57.5°	3568.3	2074.6	214.0	99.3	81.4	79.4	66.0	57.6	59.1	58.6	58.6
60°	3653.7	1831.3	152.9	76.4	64.0	62.5	58.1	53.6	54.6	52.1	51.6
62.5°	3654.7	1509.6	102.3	60.6	51.1	49.6	49.6	48.2	47.2	42.2	40.7
65°	3576.8	1152.7	68.0	48.2	41.2	38.7	41.7	41.2	37.7	30.8	29.8
67.5°	3400.0	755.6	51.6	37.7	31.8	30.3	33.3	34.7	32.3	25.8	25.3
70°	3036.6	439.8	42.7	29.3	23.8	22.3	26.8	29.8	26.8	20.8	19.9
72.5°	2522.3	237.3	34.7	21.8	16.4	14.9	21.3	24.3	21.3	15.4	14.9
75°	1636.7	127.1	26.8	14.4	8.4	9.4	15.9	17.9	14.9	9.9	8.9
77.5°	549.5	56.1	16.9	6.9	4.0	4.0	9.4	10.9	6.9	3.5	3.0
80°	122.6	23.3	6.9	3.0	1.5	1.5	2.0	2.0	1.0	0.0	0.0
82.5°	40.2	9.4	3.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	15.4	3.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.0	0.5	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)