

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: P944853

Luminaire Tested: **GALN-SB1A-727-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944853
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1A-727-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2700K, 350mA LIGHTSQUARE WITH 26 LEDS AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

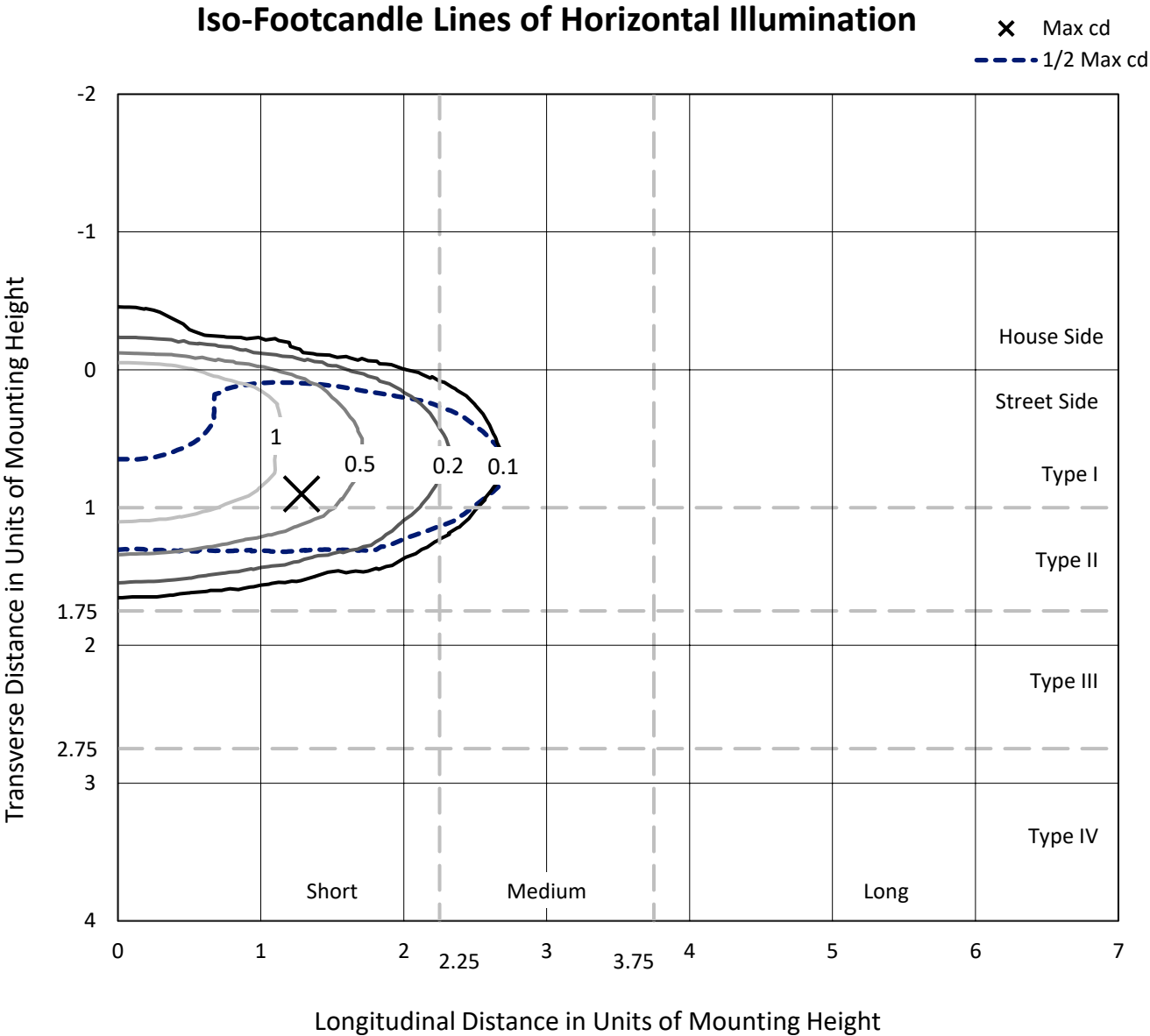
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3549 lumens
Efficiency: N/A
Efficacy: 114.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

Input Watts (W): 30.9
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



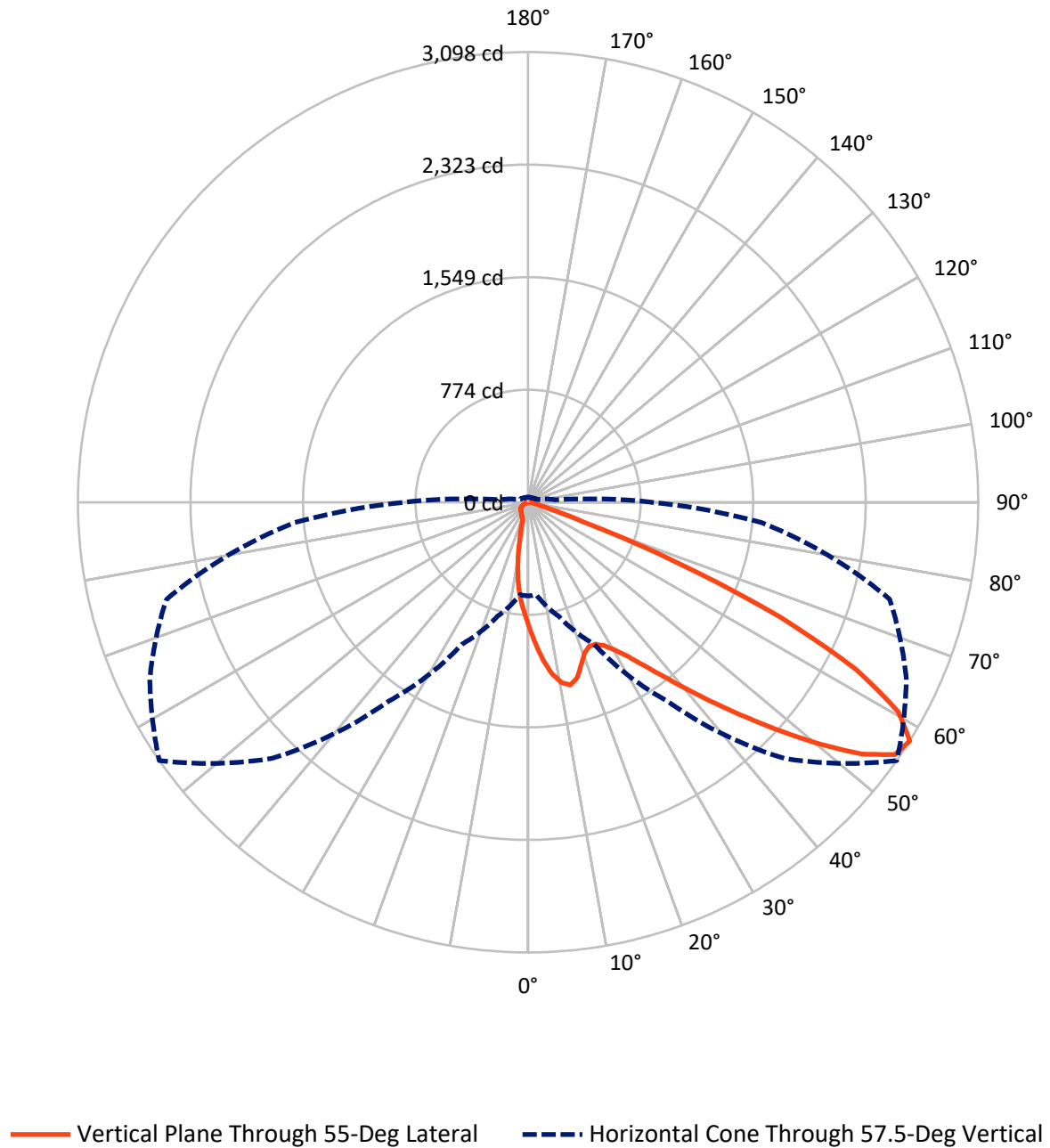
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Based on 25 foot mounting height. Maximum calculated value = 2 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	277.2	0.0	277.2
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	3271.8	0.0	3271.8
	% Fixture	92.2	0.0	92.2
Total	Lumens	3549.0	0.0	3549.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.6	2.2
10°-20°	192.2	5.4
20°-30°	307.5	8.7
30°-40°	520.5	14.7
40°-50°	854.6	24.1
50°-60°	939.2	26.5
60°-70°	538.8	15.2
70°-80°	110.1	3.1
80°-90°	6.5	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°	3549.0	100.0
0°-180°	3549.0	100.0

Coefficient of Utilization



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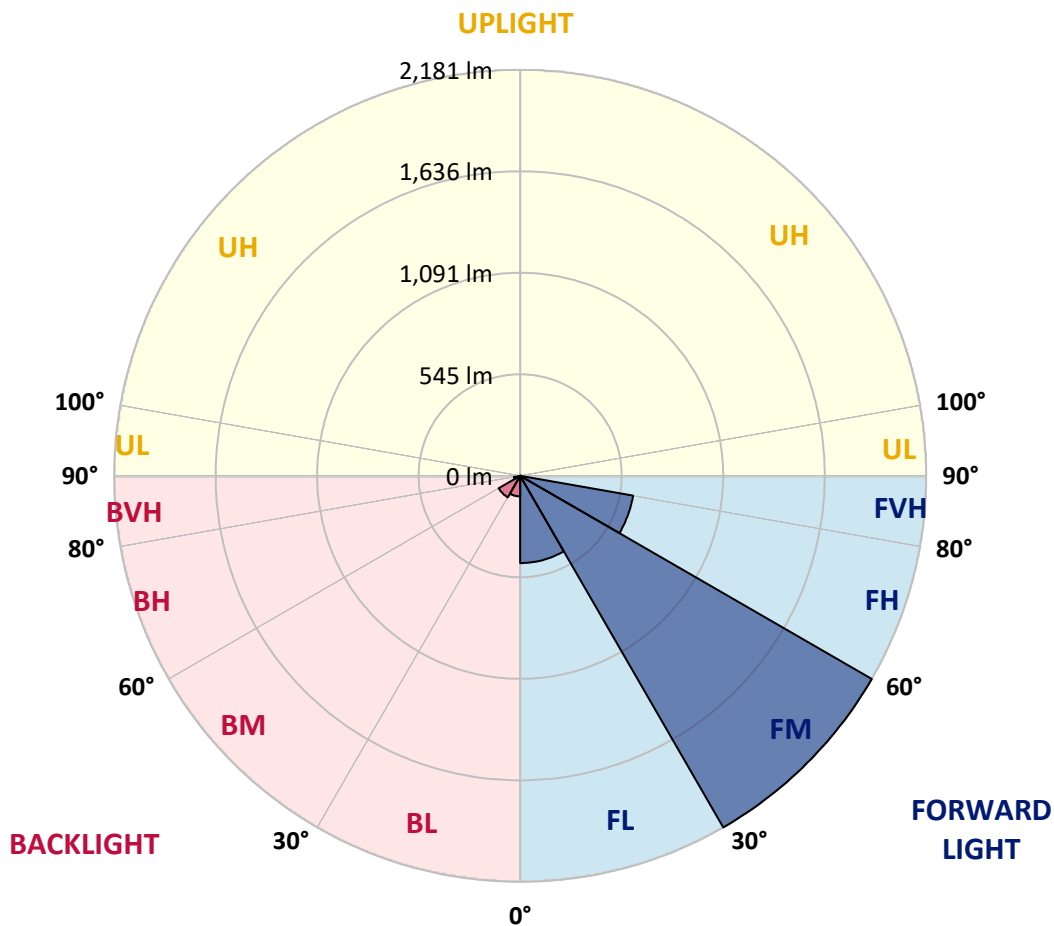
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	468.7	13.2			
FM	(30°-60°)	2181.2	61.5			
FH	(60°-80°)	615.9	17.4			G0/660
FVH	(80°-90°)	6.1	0.2			G0/10
BL	(0°-30°)	110.7	3.1	B1/500		
BM	(30°-60°)	133.1	3.8	B0/220		
BH	(60°-80°)	33.0	0.9	B0/110		G0/110
BVH	(80°-90°)	0.4	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-G0

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	855.2	855.2	855.2	855.2	855.2	855.2	855.2	855.2	855.2	855.2	855.2
2.5°	1061.1	1047.8	1045.8	1043.2	1017.8	998.8	971.2	941.0	907.1	872.5	857.2
5°	1225.9	1215.4	1213.5	1201.2	1172.3	1139.9	1090.9	1029.0	965.7	891.3	859.4
7.5°	1257.9	1255.9	1264.9	1264.4	1260.5	1234.9	1193.5	1119.8	1024.8	914.5	865.1
10°	1115.4	1120.5	1147.2	1170.6	1233.8	1270.6	1261.6	1200.8	1085.7	941.0	871.4
12.5°	985.6	979.7	998.8	1025.3	1098.8	1208.2	1289.8	1268.4	1155.2	971.0	880.8
15°	904.2	901.8	912.6	924.8	980.8	1091.1	1257.0	1323.3	1222.2	1006.4	895.1
17.5°	878.2	876.2	879.5	882.6	918.9	1004.3	1178.9	1357.0	1286.3	1046.9	910.8
20°	899.4	896.8	896.4	894.0	909.1	967.3	1108.2	1359.4	1343.9	1083.7	924.4
22.5°	961.4	958.3	947.6	937.9	939.3	972.3	1076.7	1335.4	1387.2	1118.0	932.9
25°	1073.6	1068.6	1046.3	1013.9	993.3	1007.3	1081.5	1303.6	1428.6	1145.0	928.8
27.5°	1214.1	1207.6	1178.9	1130.7	1083.7	1066.6	1116.3	1281.7	1462.9	1165.5	919.8
30°	1351.8	1343.2	1315.0	1277.6	1208.9	1155.0	1179.1	1291.4	1503.9	1187.0	908.0
32.5°	1500.4	1492.3	1454.8	1408.4	1351.5	1279.1	1265.1	1338.4	1554.0	1217.0	899.6
35°	1688.3	1675.6	1622.5	1559.2	1498.8	1425.5	1381.5	1419.6	1620.7	1262.7	904.2
37.5°	1902.4	1885.3	1828.0	1740.6	1661.9	1579.8	1523.3	1531.2	1718.5	1324.0	918.5
40°	2104.1	2088.6	2035.6	1953.4	1854.4	1754.9	1694.7	1677.2	1853.6	1398.6	943.4
42.5°	2225.2	2211.1	2188.8	2154.0	2070.7	1969.1	1893.2	1855.3	2013.3	1487.9	973.8
45°	2231.9	2219.7	2249.7	2290.1	2273.7	2206.1	2113.5	2044.2	2173.7	1571.7	1005.3
47.5°	2123.4	2115.1	2206.1	2347.5	2417.9	2446.4	2361.1	2217.3	2306.1	1631.9	1018.3
50°	1827.5	1824.5	2011.8	2271.3	2472.9	2656.9	2622.1	2378.3	2408.8	1663.0	1006.0
52.5°	1584.6	1573.5	1682.7	2027.5	2393.0	2767.7	2877.3	2536.3	2480.5	1668.9	977.3
55°	1201.9	1192.0	1329.0	1619.6	2135.4	2728.3	3064.0	2699.4	2532.0	1653.8	925.9
57.5°	644.7	638.6	811.7	1078.0	1669.3	2491.9	3097.7	2871.8	2575.3	1613.7	853.9
60°	251.0	249.9	314.7	523.0	1014.5	2027.3	2927.6	2975.3	2602.4	1564.5	793.7
62.5°	151.9	155.2	165.7	234.8	448.2	1259.4	2535.7	2857.6	2620.6	1519.4	744.1
65°	125.6	125.8	127.1	161.3	214.7	527.0	1908.9	2470.3	2575.7	1439.1	673.6
67.5°	107.7	109.6	114.7	128.0	151.4	231.1	1099.0	1913.5	2302.8	1252.2	563.7
70°	84.9	87.5	93.9	105.3	116.9	144.7	406.2	1273.2	1759.2	943.9	426.3
72.5°	71.6	71.3	74.6	85.6	92.8	101.8	156.3	713.4	1022.4	450.6	211.0
75°	55.4	57.6	61.7	71.6	75.9	73.7	84.7	260.6	366.3	136.6	71.8
77.5°	43.3	45.1	48.8	58.4	62.8	52.3	48.8	93.2	117.7	49.0	32.4
80°	19.5	21.0	33.3	43.1	51.2	36.1	26.5	47.7	52.3	22.3	16.4
82.5°	3.5	5.9	19.5	22.8	26.3	23.4	13.8	24.7	25.6	9.0	5.7
85°	0.2	0.4	6.8	8.3	10.5	7.7	4.2	9.8	8.5	3.1	2.2
87.5°	0.0	0.0	0.0	0.2	0.2	1.1	1.3	1.8	1.3	1.1	0.9
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	855.2	855.2	855.2	855.2	855.2	855.2	855.2	855.2	855.2	855.2
2.5°	841.4	810.4	780.2	755.4	741.0	716.5	700.3	697.7	690.9	696.8
5°	825.2	769.7	713.4	663.1	621.7	568.3	528.5	511.6	497.0	502.0
7.5°	817.6	729.8	642.3	556.3	467.9	382.5	319.1	292.6	272.5	275.3
10°	807.3	688.5	551.3	420.0	301.6	217.3	173.5	157.3	148.4	148.6
12.5°	799.4	639.0	445.6	284.7	183.6	138.7	125.2	121.2	118.6	118.8
15°	795.5	580.8	341.2	189.7	131.3	117.5	114.2	112.5	110.7	110.5
17.5°	788.9	516.0	249.7	138.5	114.9	110.1	107.2	105.3	103.1	102.6
20°	779.1	442.5	182.5	117.1	107.7	103.9	100.0	97.4	94.8	94.3
22.5°	760.9	364.8	140.3	108.3	102.4	98.3	93.4	90.4	87.8	87.3
25°	727.2	291.9	118.2	102.9	97.8	92.8	87.5	83.4	81.0	80.5
27.5°	684.5	229.3	107.2	97.8	91.9	87.3	81.4	77.5	75.3	74.8
30°	634.2	176.6	100.9	92.1	84.9	81.0	75.7	72.4	71.1	71.1
32.5°	579.9	141.2	98.3	86.4	78.8	74.4	70.2	68.9	68.5	68.3
35°	528.9	122.5	96.9	81.8	73.3	69.2	67.4	67.6	68.5	68.5
37.5°	483.6	116.6	96.3	78.6	68.5	64.8	65.9	67.8	67.0	67.0
40°	442.7	117.3	95.9	76.2	64.6	62.4	64.6	63.0	60.8	60.6
42.5°	411.4	122.8	95.0	74.2	62.2	60.6	59.7	57.3	57.1	57.6
45°	388.7	127.6	94.8	73.3	59.5	56.7	55.6	53.2	57.6	58.6
47.5°	361.7	127.6	94.8	70.2	55.1	54.1	52.3	49.7	54.1	55.1
50°	326.9	119.5	91.0	66.7	51.6	51.0	47.9	44.6	43.8	44.4
52.5°	283.0	104.8	81.6	61.9	48.1	46.8	43.1	40.7	40.0	40.0
55°	232.8	87.8	68.9	54.9	44.4	42.0	39.4	38.3	37.6	37.2
57.5°	189.3	72.0	55.4	48.8	40.9	37.9	37.0	35.7	34.6	33.9
60°	155.4	56.7	45.7	43.3	37.4	34.6	34.4	32.6	29.8	29.3
62.5°	119.9	41.6	38.5	37.6	33.9	31.5	31.1	27.6	23.2	22.3
65°	84.7	32.4	31.1	33.0	30.2	28.0	26.9	21.7	17.1	16.4
67.5°	59.5	27.1	24.5	28.9	26.3	23.4	22.8	18.4	14.2	13.8
70°	42.5	22.1	20.1	24.7	21.0	20.6	19.3	15.3	11.6	11.2
72.5°	30.0	16.9	15.5	21.4	14.4	17.7	15.8	11.8	8.8	8.3
75°	22.1	12.0	10.9	12.5	10.5	13.3	11.2	7.9	5.5	5.3
77.5°	16.2	7.7	6.6	6.1	6.1	8.3	6.1	3.3	2.4	2.2
80°	11.4	3.5	3.1	2.6	2.4	2.0	0.9	0.4	0.2	0.2
82.5°	6.8	1.5	1.5	1.1	0.7	0.0	0.0	0.0	0.0	0.0
85°	1.5	0.7	0.7	0.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.2	0.2	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

(END OF REPORT)