

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: P945582

Luminaire Tested: **GALN-SB1C-727-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945582
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-SB1C-727-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2700K, 615mA 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: 5785 lumens
Efficiency: N/A
Efficacy: 106.3 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

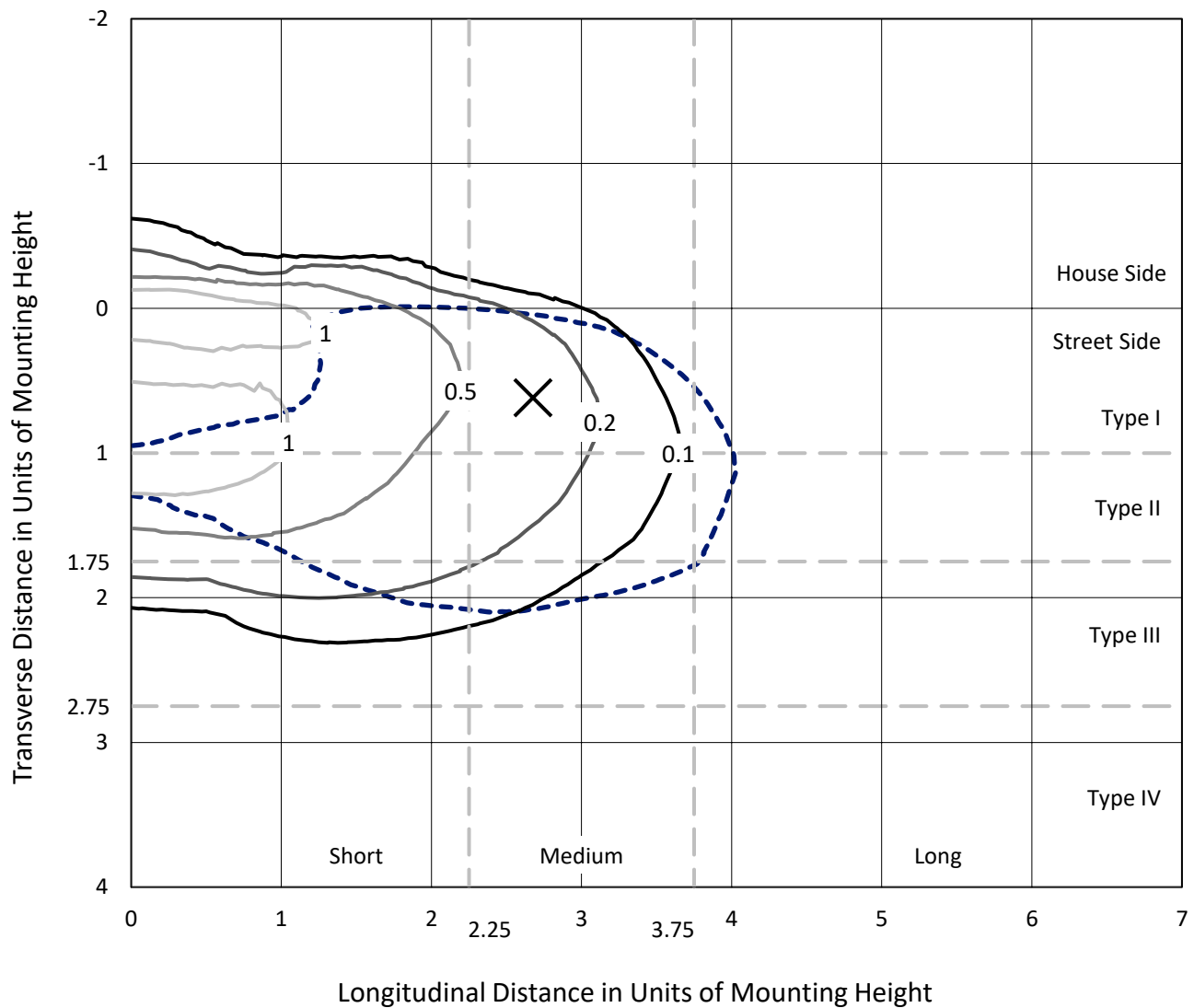


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Iso-Footcandle Lines of Horizontal Illumination

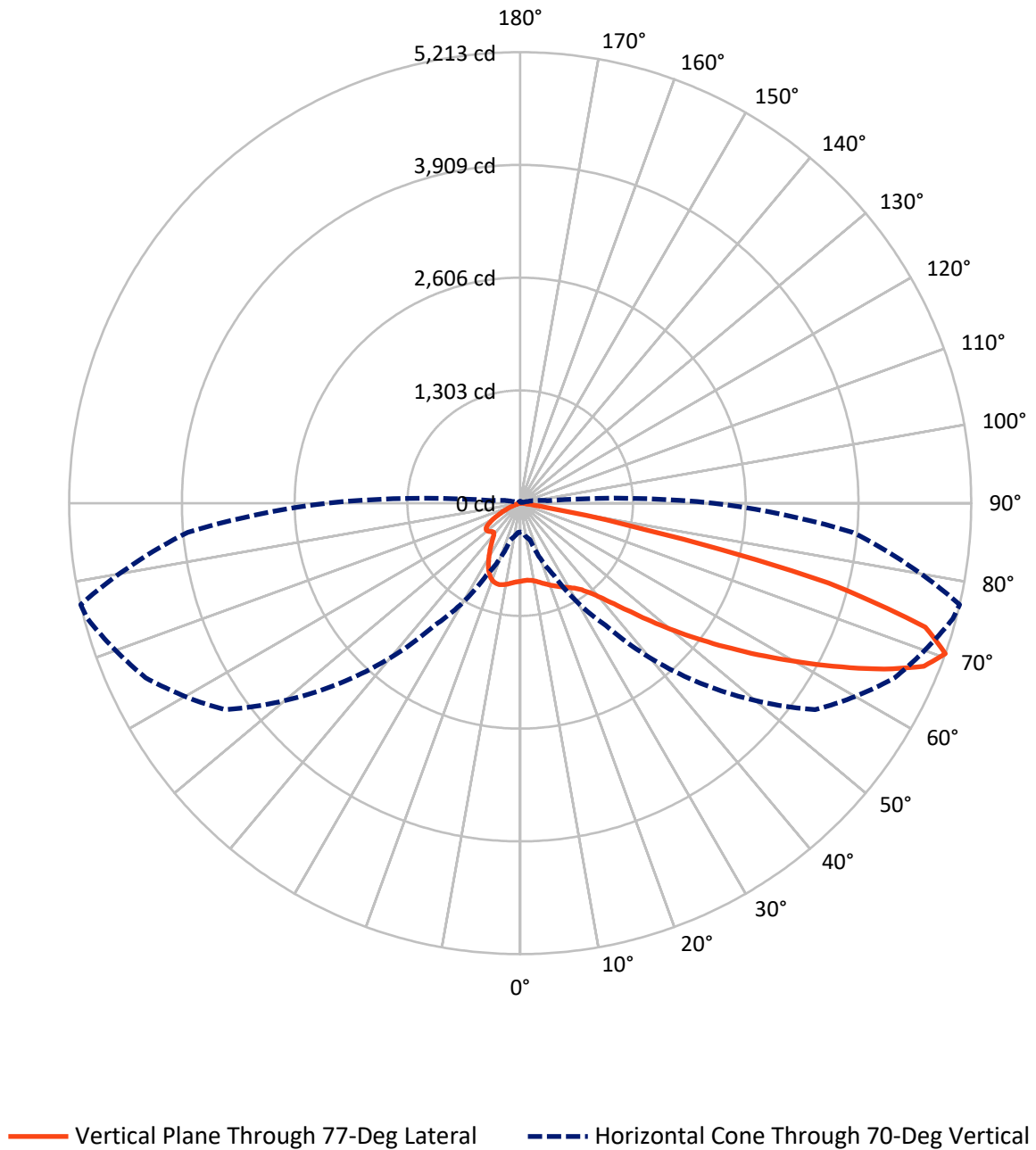
× Max cd
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 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	609.8	0.0	609.8
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	5175.2	0.0	5175.2
	% Fixture	89.5	0.0	89.5
Total	Lumens	5785.0	0.0	5785.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.8	1.3
10°-20°	184.6	3.2
20°-30°	285.5	4.9
30°-40°	518.1	9.0
40°-50°	978.1	16.9
50°-60°	1413.2	24.4
60°-70°	1504.3	26.0
70°-80°	797.2	13.8
80°-90°	26.2	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°	5785.0	100.0
0°-180°	5785.0	100.0

Coefficient of Utilization



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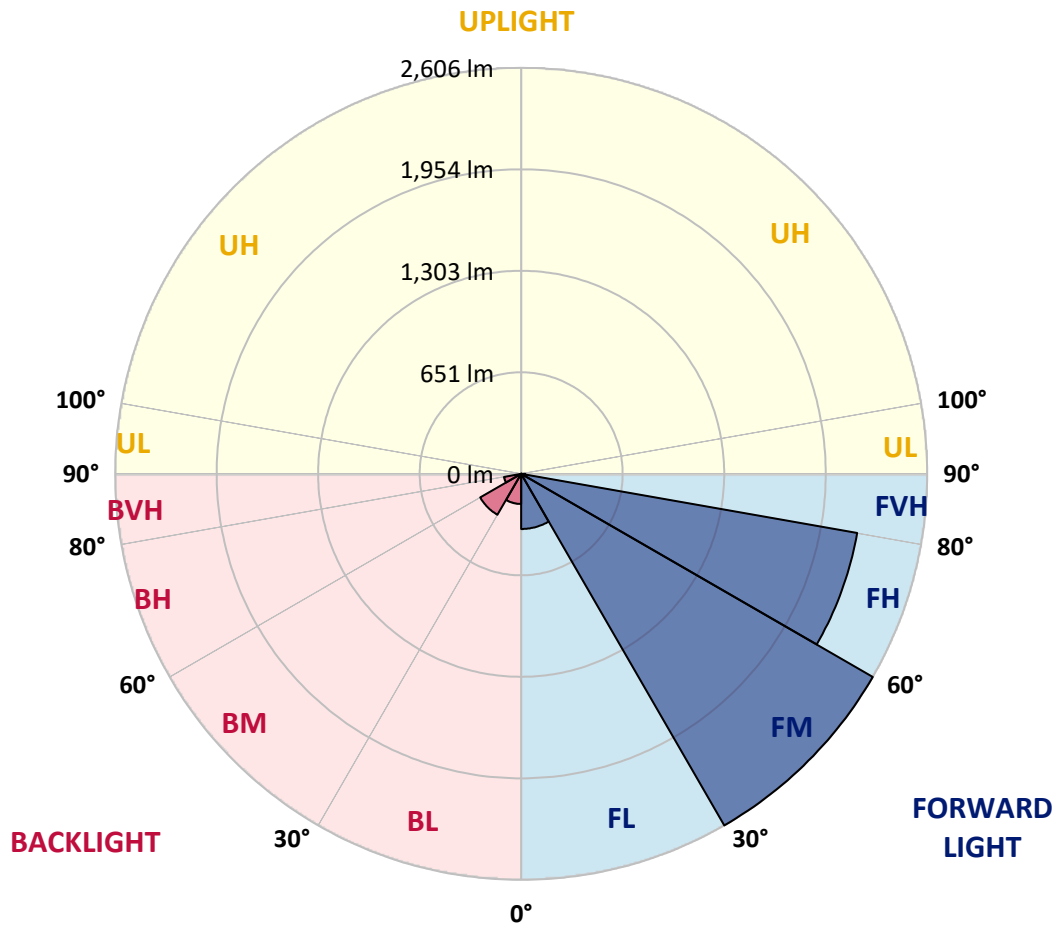
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	354.2	6.1			
FM	(30°-60°)	2605.8	45.0			
FH	(60°-80°)	2189.7	37.9			G2/5000
FVH	(80°-90°)	25.5	0.4			G1/100
BL	(0°-30°)	193.8	3.3	B1/500		
BM	(30°-60°)	303.6	5.2	B1/1000		
BH	(60°-80°)	111.8	1.9	B1/500		G1/500
BVH	(80°-90°)	0.7	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°	65°	75°	77°	85°
0°	902.4	902.4	902.4	902.4	902.4	902.4	902.4	902.4	902.4	902.4	902.4
2.5°	847.2	854.9	853.8	858.9	860.7	868.0	875.3	885.2	896.1	895.8	903.1
5°	799.3	807.0	808.8	815.8	824.5	835.9	850.8	870.6	891.0	894.3	908.9
7.5°	742.7	750.7	755.5	769.4	785.5	808.8	833.3	862.2	896.1	900.9	929.0
10°	686.1	693.4	699.6	719.3	744.9	779.6	819.4	861.1	906.7	913.7	953.5
12.5°	651.0	658.0	664.9	682.1	713.8	756.2	810.3	866.2	924.3	934.1	986.7
15°	638.6	644.8	650.3	665.6	695.2	743.4	808.5	876.8	946.6	959.7	1026.9
17.5°	640.4	643.7	647.4	659.0	687.9	737.6	811.8	895.0	972.9	984.6	1067.1
20°	651.0	652.8	653.2	661.2	686.8	736.9	818.3	912.6	997.7	1013.4	1106.9
22.5°	664.5	665.3	664.5	670.0	693.8	742.3	827.1	933.8	1025.5	1040.1	1147.1
25°	727.7	713.8	696.3	685.7	705.4	752.9	840.3	962.3	1055.8	1070.0	1186.2
27.5°	923.9	884.1	821.3	750.7	729.6	768.3	858.5	991.1	1086.5	1099.3	1228.2
30°	1242.5	1190.2	1083.6	924.6	807.0	800.4	882.3	1020.0	1119.0	1132.9	1273.2
32.5°	1561.8	1549.0	1425.9	1205.9	981.3	872.0	921.7	1059.1	1162.1	1173.1	1333.8
35°	1884.7	1858.8	1757.9	1540.6	1249.8	1017.8	987.5	1110.2	1218.7	1231.1	1422.2
37.5°	2132.0	2116.3	2053.9	1874.9	1568.3	1242.8	1100.0	1189.5	1300.9	1314.8	1535.5
40°	2350.5	2343.2	2322.0	2204.0	1924.5	1537.3	1275.0	1312.3	1414.9	1431.3	1674.3
42.5°	2522.2	2539.4	2551.4	2518.6	2291.7	1873.4	1510.3	1484.7	1573.8	1590.6	1851.1
45°	2697.9	2703.8	2752.4	2799.9	2656.3	2224.8	1775.5	1686.7	1771.5	1792.3	2063.0
47.5°	2810.8	2834.2	2919.7	3003.3	2962.8	2573.4	2060.4	1925.3	2000.5	2039.6	2300.5
50°	2819.2	2863.4	2981.1	3126.8	3186.0	2905.1	2370.2	2197.1	2277.1	2320.2	2554.0
52.5°	2679.3	2748.0	2930.3	3143.6	3306.6	3186.0	2690.6	2468.9	2571.5	2627.8	2817.0
55°	2054.2	2144.1	2739.2	3052.3	3311.3	3399.0	3002.6	2752.0	2899.6	2963.2	3101.3
57.5°	1789.7	1835.0	2153.6	2893.7	3223.3	3484.8	3284.6	3021.6	3256.5	3335.4	3369.8
60°	1489.1	1548.6	1806.2	2634.4	3103.8	3493.2	3533.8	3369.4	3643.4	3732.2	3616.0
62.5°	1012.0	1076.6	1332.7	2188.7	2940.5	3489.2	3738.0	3727.4	4073.4	4168.7	3824.6
65°	626.9	667.5	836.2	1787.2	2712.2	3493.6	3951.7	4162.2	4527.1	4623.9	3986.1
67.5°	495.4	514.0	602.1	1372.2	2318.7	3395.0	4165.1	4571.0	4954.2	5030.9	4035.4
70°	332.8	344.1	438.0	919.9	1725.1	2939.8	4161.1	4776.3	5174.1	5212.5	3855.7
72.5°	175.4	184.1	256.1	426.0	1041.9	2089.7	3507.5	4530.8	4955.3	4897.6	3295.6
75°	87.7	102.3	172.4	216.3	445.0	1165.4	2178.1	3572.2	3900.2	3676.6	2114.5
77.5°	66.5	80.4	142.5	142.5	154.9	392.4	922.4	1948.3	1797.0	1496.4	620.7
80°	42.4	54.8	124.6	107.8	64.7	99.7	240.4	545.8	381.8	290.4	112.9
82.5°	24.8	35.8	103.8	71.2	36.2	36.9	68.0	116.2	99.0	77.1	34.7
85°	9.9	23.4	71.2	28.1	14.2	9.1	20.5	24.8	20.5	15.3	8.8
87.5°	0.0	5.5	12.4	0.0	1.1	0.7	1.5	1.8	1.8	1.5	2.9
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	902.4	902.4	902.4	902.4	902.4	902.4	902.4	902.4	902.4	902.4	902.4
2.5°	906.4	907.1	909.3	909.7	904.5	898.0	895.4	894.3	889.9	889.6	890.3
5°	917.3	920.6	917.3	907.8	885.2	853.4	829.3	809.6	791.7	786.2	782.9
7.5°	939.3	942.5	932.7	895.4	838.4	775.2	718.2	678.0	641.9	628.4	622.9
10°	970.7	975.1	944.0	868.7	767.9	666.4	569.9	502.0	449.0	427.4	418.3
12.5°	1010.1	1012.0	950.2	828.2	676.2	531.2	394.6	321.9	274.7	257.2	251.7
15°	1053.6	1051.0	950.9	773.0	551.3	375.6	257.6	211.5	192.5	186.7	186.7
17.5°	1099.3	1088.7	936.3	693.4	414.3	256.8	191.1	180.1	176.8	175.4	175.0
20°	1144.2	1120.5	909.7	589.3	297.4	191.8	173.5	170.2	168.4	167.7	167.0
22.5°	1185.1	1144.6	864.0	468.3	215.9	169.5	164.0	161.1	157.8	156.4	156.0
25°	1224.9	1158.4	799.7	355.5	172.8	158.6	154.2	148.7	144.3	142.5	141.7
27.5°	1263.7	1167.2	719.3	263.0	154.2	148.3	140.3	132.6	129.3	128.6	127.9
30°	1304.9	1170.1	628.0	196.2	142.8	135.5	123.8	115.1	113.3	113.6	113.6
32.5°	1355.4	1174.5	535.9	160.7	133.3	120.2	106.3	97.2	95.7	97.2	96.8
35°	1415.6	1183.3	447.2	148.0	124.9	104.5	89.5	81.8	80.4	81.5	81.1
37.5°	1497.5	1197.5	364.2	145.4	118.0	91.3	75.3	69.0	69.0	69.4	69.0
40°	1606.3	1235.5	290.1	143.6	114.3	81.5	63.6	61.0	62.1	62.8	62.8
42.5°	1739.0	1316.3	240.0	141.4	110.3	77.1	57.7	56.6	58.5	59.2	59.2
45°	1887.6	1418.6	222.5	137.7	106.7	80.0	55.2	53.7	55.9	56.3	56.6
47.5°	2041.4	1518.7	220.3	133.7	103.0	84.4	54.4	51.1	53.7	54.1	54.4
50°	2197.1	1584.1	222.5	127.5	97.2	84.4	54.8	48.6	50.8	51.9	52.2
52.5°	2353.8	1614.0	221.0	114.0	86.9	79.3	54.8	46.4	48.6	49.3	49.3
55°	2505.8	1608.2	198.7	93.9	73.8	70.1	53.3	44.6	46.0	46.4	46.4
57.5°	2626.0	1526.7	157.5	73.1	59.9	58.5	48.6	42.4	43.5	43.1	43.1
60°	2688.8	1347.7	112.5	56.3	47.1	46.0	42.7	39.5	40.2	38.4	38.0
62.5°	2689.5	1111.0	75.3	44.6	37.6	36.5	36.5	35.4	34.7	31.1	30.0
65°	2632.2	848.3	50.0	35.4	30.3	28.5	30.7	30.3	27.8	22.7	21.9
67.5°	2502.1	556.0	38.0	27.8	23.4	22.3	24.5	25.6	23.7	19.0	18.6
70°	2234.7	323.7	31.4	21.6	17.5	16.4	19.7	21.9	19.7	15.3	14.6
72.5°	1856.2	174.6	25.6	16.1	12.1	11.0	15.7	17.9	15.7	11.3	11.0
75°	1204.5	93.5	19.7	10.6	6.2	6.9	11.7	13.2	11.0	7.3	6.6
77.5°	404.4	41.3	12.4	5.1	2.9	2.9	6.9	8.0	5.1	2.6	2.2
80°	90.2	17.2	5.1	2.2	1.1	1.1	1.5	1.5	0.7	0.0	0.0
82.5°	29.6	6.9	2.2	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	11.3	2.6	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.4	0.4	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)