

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: P945581

Luminaire Tested: **GALN-SB1C-727-U-T2U**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P945581  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)  
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-T2U  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7042 lumens  
Efficiency: N/A  
Efficacy: 129.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

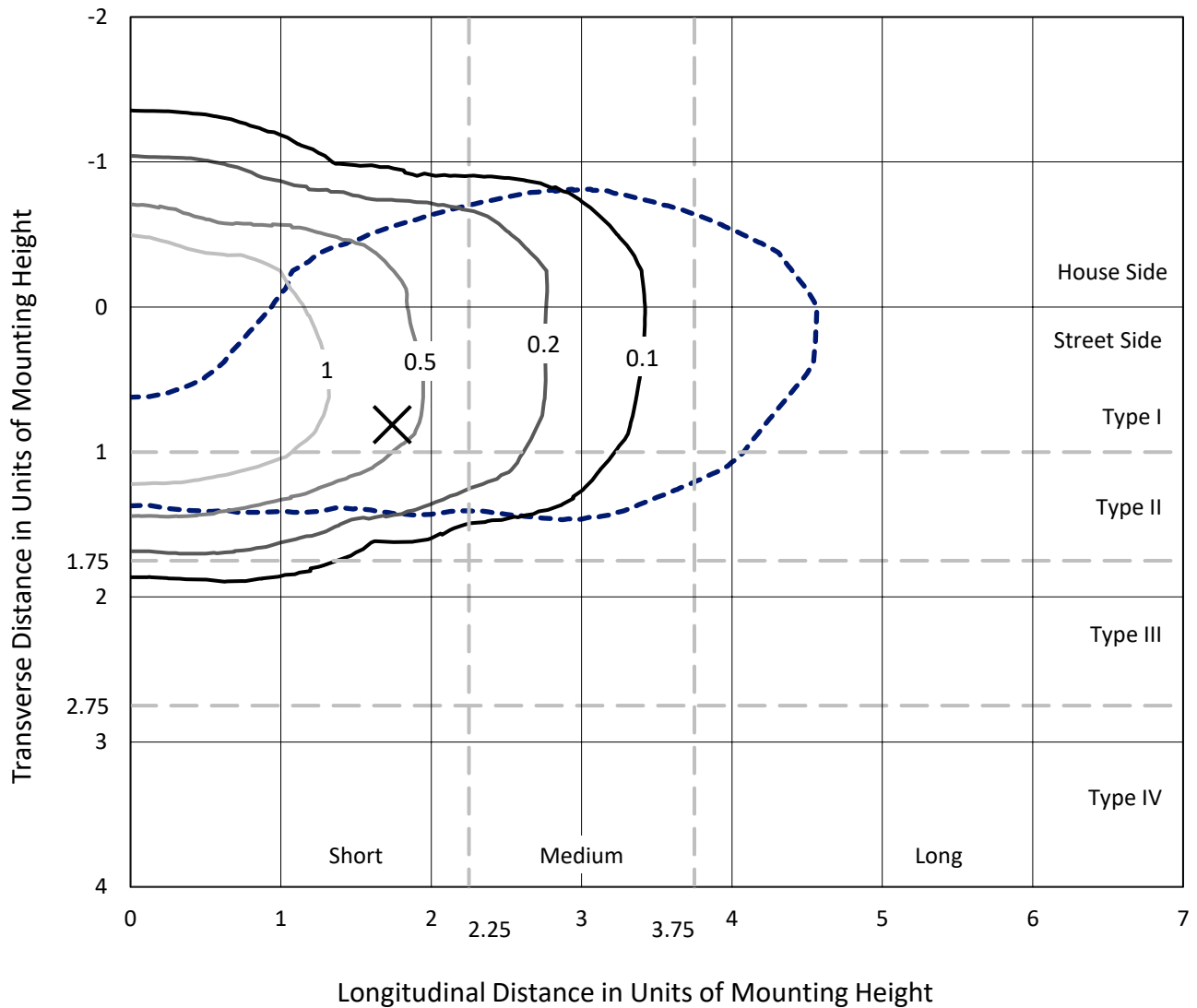
Input Watts (W): 54.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

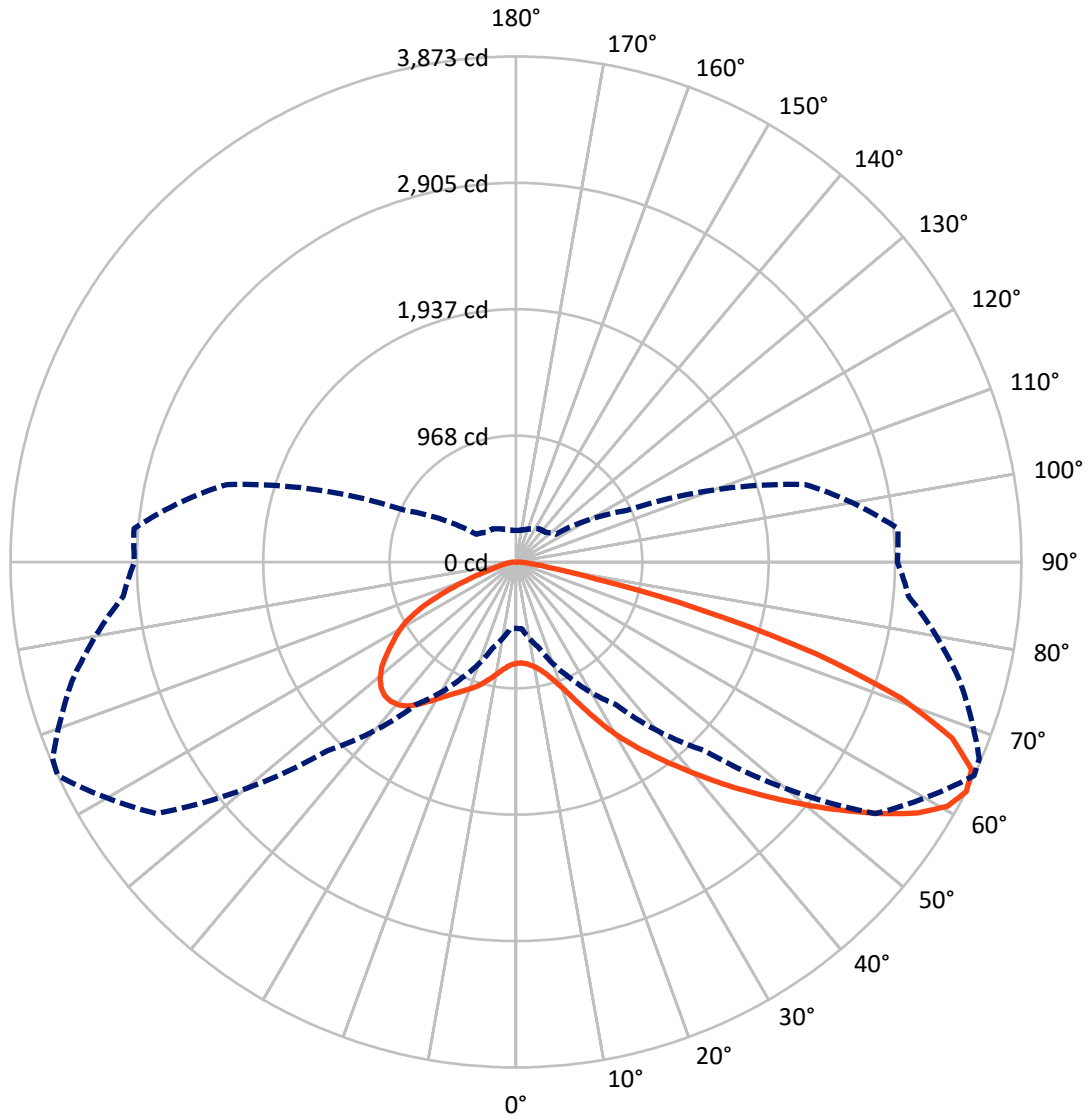
✕ Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 62.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2222.1	0.0	2222.1
	% Fixture	31.6	0.0	31.6
<b>Street Side</b>	Lumens	4819.9	0.0	4819.9
	% Fixture	68.4	0.0	68.4
<b>Total</b>	Lumens	7042.0	0.0	7042.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	77.4	1.1
10°-20°	262.4	3.7
20°-30°	532.0	7.6
30°-40°	920.5	13.1
40°-50°	1393.1	19.8
50°-60°	1633.3	23.2
60°-70°	1369.3	19.4
70°-80°	756.0	10.7
80°-90°	98.2	1.4
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°	7042.0	100.0
0°-180°	7042.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P945581

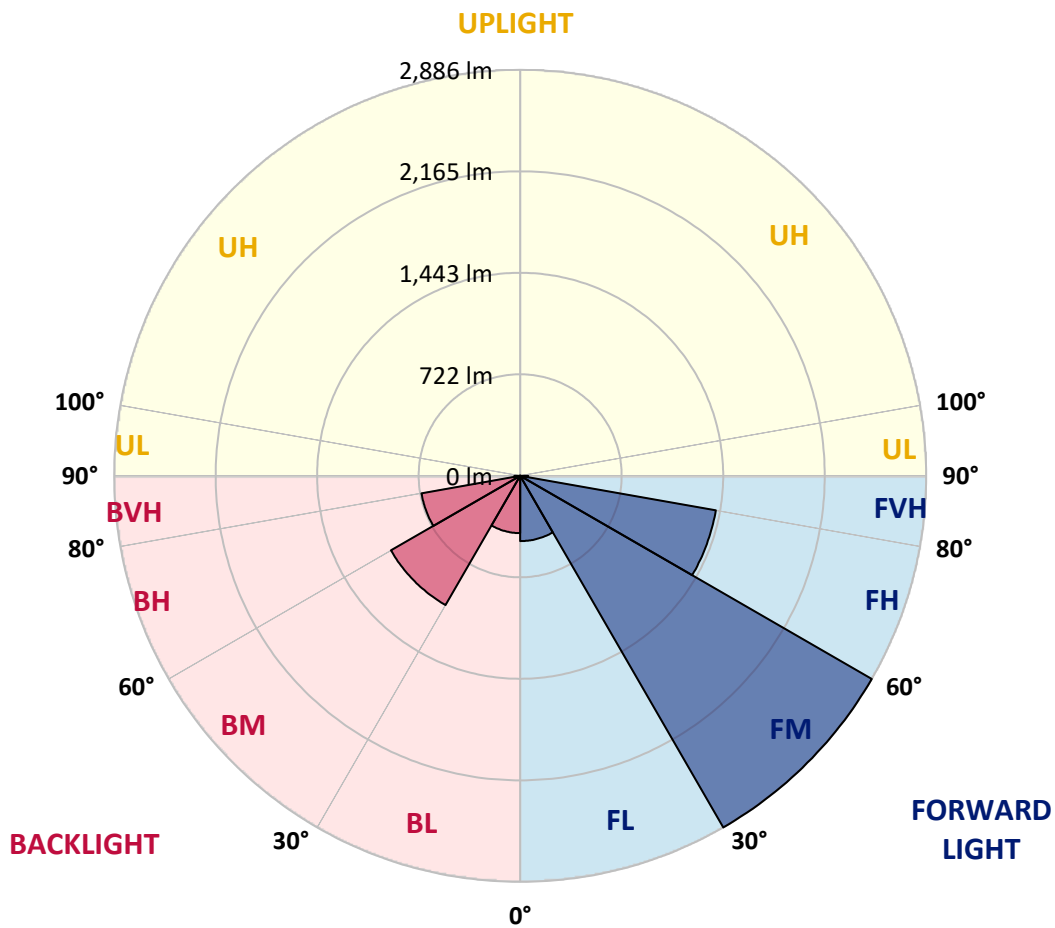
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	464.2	6.6			
FM (30°-60°)	2886.0	41.0			
FH (60°-80°)	1412.4	20.1			G1/1800
FVH (80°-90°)	57.2	0.8			G1/100
BL (0°-30°)	407.5	5.8	B1/500		
BM (30°-60°)	1060.8	15.1	B2/2500		
BH (60°-80°)	712.8	10.1	B2/1000		G2/1000
BVH (80°-90°)	41.0	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	776.0	776.0	776.0	776.0	776.0	776.0	776.0	776.0	776.0	776.0	776.0
2.5°	770.9	768.7	770.5	770.5	771.2	770.9	773.4	774.2	775.3	777.5	777.5
5°	763.2	762.8	766.1	769.1	772.0	774.5	777.8	782.6	783.3	785.9	789.2
7.5°	760.7	758.5	763.6	767.2	774.2	780.4	789.2	797.2	800.5	801.6	807.8
10°	780.4	776.7	781.5	783.7	789.5	795.7	806.0	818.7	822.4	826.8	833.7
12.5°	814.0	810.0	816.9	820.2	825.7	831.2	838.1	850.5	852.4	860.4	867.0
15°	860.0	855.3	859.7	863.7	872.8	877.9	884.9	896.9	896.9	903.1	907.9
17.5°	922.5	916.3	919.6	921.0	926.9	934.6	946.2	956.8	962.3	960.1	953.6
20°	1015.7	1008.0	1008.0	1000.7	998.5	1004.7	1020.0	1034.7	1040.5	1029.2	1013.1
22.5°	1155.6	1144.6	1138.4	1113.6	1103.7	1104.4	1119.8	1137.7	1142.4	1122.3	1086.2
25°	1333.5	1316.3	1307.9	1271.4	1249.1	1229.8	1241.8	1264.8	1271.4	1246.6	1188.1
27.5°	1511.4	1512.5	1504.5	1460.7	1423.8	1388.3	1382.1	1406.2	1413.2	1385.0	1312.7
30°	1761.0	1735.0	1719.7	1667.1	1614.5	1564.8	1539.2	1549.1	1550.9	1517.3	1433.3
32.5°	1976.2	1969.6	1936.7	1890.7	1823.1	1745.3	1702.5	1686.8	1683.9	1636.0	1536.3
35°	2221.3	2217.7	2183.0	2128.1	2055.1	1946.9	1869.8	1824.9	1821.3	1754.0	1638.2
37.5°	2470.5	2470.5	2436.5	2376.6	2301.0	2165.8	2048.5	1977.3	1965.6	1877.9	1742.0
40°	2669.2	2657.2	2663.4	2638.2	2551.6	2408.0	2246.9	2143.5	2127.8	2022.6	1852.3
42.5°	2782.1	2778.1	2815.4	2843.5	2808.1	2693.3	2465.4	2323.6	2301.7	2181.9	1979.5
45°	2807.3	2802.9	2869.4	2972.5	3022.2	2975.0	2702.8	2513.2	2486.6	2348.5	2115.7
47.5°	2749.2	2740.5	2838.0	3000.6	3159.9	3242.8	2960.0	2718.9	2680.2	2510.7	2255.7
50°	2574.6	2566.2	2713.8	2929.7	3206.3	3424.8	3239.2	2937.0	2877.8	2684.6	2397.0
52.5°	2195.0	2199.0	2430.3	2727.0	3145.3	3538.0	3479.6	3166.8	3095.6	2862.5	2529.7
55°	1709.8	1718.6	2002.8	2329.5	2901.2	3520.9	3643.6	3403.6	3332.7	3029.8	2666.7
57.5°	1224.3	1263.0	1529.3	1852.7	2432.5	3248.7	3679.4	3628.6	3559.9	3212.5	2800.8
60°	793.5	800.5	1074.5	1400.4	1852.3	2764.9	3606.7	3799.2	3745.5	3398.8	2912.9
62.5°	508.6	513.3	680.3	979.5	1333.2	2045.6	3361.9	3873.4	3857.0	3521.9	3020.7
65°	373.8	370.1	457.0	647.4	898.0	1261.5	2886.6	3837.6	3870.1	3599.0	3109.8
67.5°	312.0	306.9	349.6	448.3	661.6	716.4	2135.8	3604.9	3724.0	3590.3	3175.2
70°	284.2	279.9	305.8	332.8	516.2	479.7	1076.7	3133.9	3317.4	3490.5	3164.6
72.5°	240.8	233.1	268.5	295.6	401.5	367.9	445.0	2407.3	2630.9	3170.9	3015.6
75°	186.7	181.6	211.9	260.1	301.8	287.2	281.3	1461.8	1705.8	2452.2	2638.2
77.5°	148.0	141.0	168.8	202.8	271.5	216.7	205.0	629.5	871.4	1565.5	1974.0
80°	111.4	105.2	128.2	160.4	208.6	163.3	132.6	256.8	328.4	793.2	992.6
82.5°	79.3	73.8	89.5	117.6	140.3	146.5	81.5	143.9	161.8	305.8	221.8
85°	50.8	47.5	59.9	73.8	89.1	94.3	49.7	75.3	82.6	126.0	92.4
87.5°	27.8	22.7	32.2	34.3	41.3	37.6	23.7	27.4	29.6	45.7	39.1
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°	776.0	776.0	776.0	776.0	776.0	776.0	776.0	776.0	776.0	776.0	776.0
2.5°	778.9	780.0	783.7	784.8	787.3	790.6	792.8	795.0	795.0	797.2	797.2
5°	789.5	792.1	799.7	803.8	810.3	816.9	820.9	825.7	828.6	830.1	830.8
7.5°	810.0	814.0	825.0	831.9	843.2	852.4	858.6	865.1	866.6	870.6	869.2
10°	837.7	842.5	854.9	868.1	881.6	892.9	898.8	903.5	905.3	906.1	904.2
12.5°	869.5	876.5	892.5	908.6	922.9	932.7	934.2	933.1	928.0	923.6	923.6
15°	908.6	914.8	932.7	950.3	964.2	966.0	956.8	951.0	944.8	943.7	943.7
17.5°	955.4	958.7	975.1	992.3	993.4	987.2	973.7	968.2	962.3	958.3	958.7
20°	1009.8	1008.7	1020.4	1027.7	1020.0	1001.1	980.6	971.5	965.6	960.9	961.2
22.5°	1074.9	1066.4	1065.0	1063.2	1042.7	1002.9	975.1	963.4	954.3	947.7	949.9
25°	1169.5	1137.3	1115.0	1102.6	1056.6	993.0	957.6	931.6	914.5	903.1	907.5
27.5°	1287.8	1233.8	1177.5	1147.2	1056.6	972.9	915.2	873.2	845.0	833.4	839.2
30°	1400.7	1344.1	1261.2	1200.9	1054.0	940.0	846.9	788.4	755.5	743.8	750.8
32.5°	1497.2	1435.4	1350.0	1259.7	1047.8	886.7	762.1	697.4	665.7	651.8	658.7
35°	1586.7	1520.9	1439.1	1324.4	1031.4	808.5	669.0	619.6	584.2	561.9	569.2
37.5°	1678.4	1600.2	1523.5	1382.8	1001.8	717.2	597.3	555.3	513.7	483.7	491.8
40°	1778.1	1684.6	1613.7	1417.5	953.2	630.2	541.8	503.4	459.2	427.5	433.7
42.5°	1894.7	1785.8	1714.2	1435.4	886.7	568.5	505.6	468.0	426.4	400.4	405.5
45°	2016.4	1897.2	1805.9	1435.1	812.5	539.6	493.9	456.7	410.7	383.6	388.0
47.5°	2143.9	2013.8	1885.2	1411.7	748.2	543.6	487.4	432.2	381.4	355.1	358.8
50°	2271.7	2141.3	1961.9	1367.9	720.8	534.9	462.9	397.9	337.9	314.2	315.7
52.5°	2398.5	2276.8	2028.0	1305.4	693.1	502.4	431.5	353.3	320.0	303.6	303.6
55°	2526.0	2410.9	2100.0	1214.4	623.6	464.4	378.9	336.5	305.8	290.8	289.4
57.5°	2653.9	2565.8	2168.3	1123.4	536.3	417.6	350.0	316.0	291.5	278.8	276.6
60°	2786.9	2743.0	2238.8	1039.8	450.1	357.7	328.8	299.6	274.7	260.5	259.4
62.5°	2923.9	2938.1	2294.0	932.0	370.8	321.1	309.8	279.9	255.7	242.2	241.9
65°	3062.0	3126.3	2330.2	782.6	300.7	286.4	289.4	258.3	233.8	222.1	221.8
67.5°	3166.1	3261.8	2320.0	592.2	246.6	253.6	263.8	235.6	212.6	203.5	203.9
70°	3177.8	3245.7	2219.1	405.5	206.4	221.4	235.3	213.4	189.6	183.0	183.4
72.5°	3022.2	3026.5	1938.2	264.9	174.6	194.4	205.3	190.7	167.7	161.1	160.8
75°	2614.1	2503.0	1423.0	174.6	146.1	167.0	177.2	167.0	144.7	146.1	141.0
77.5°	1980.5	1772.7	864.0	124.2	122.0	140.3	154.2	146.9	127.9	143.6	126.4
80°	1020.4	959.0	385.4	92.8	96.5	112.2	126.8	117.3	101.2	96.5	88.0
82.5°	233.8	271.8	152.0	66.5	69.8	80.7	96.8	88.0	72.7	61.4	60.6
85°	81.8	89.5	67.2	41.6	40.9	50.4	65.8	58.8	49.3	39.5	41.6
87.5°	25.9	34.0	25.2	16.8	17.5	22.7	30.3	27.8	23.0	15.0	15.7
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)