

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: P938895

Luminaire Tested: **GALN-SB1B-727-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P938895
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1B-727-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2700K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5177 lumens
Efficiency: N/A
Efficacy: 130.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G1

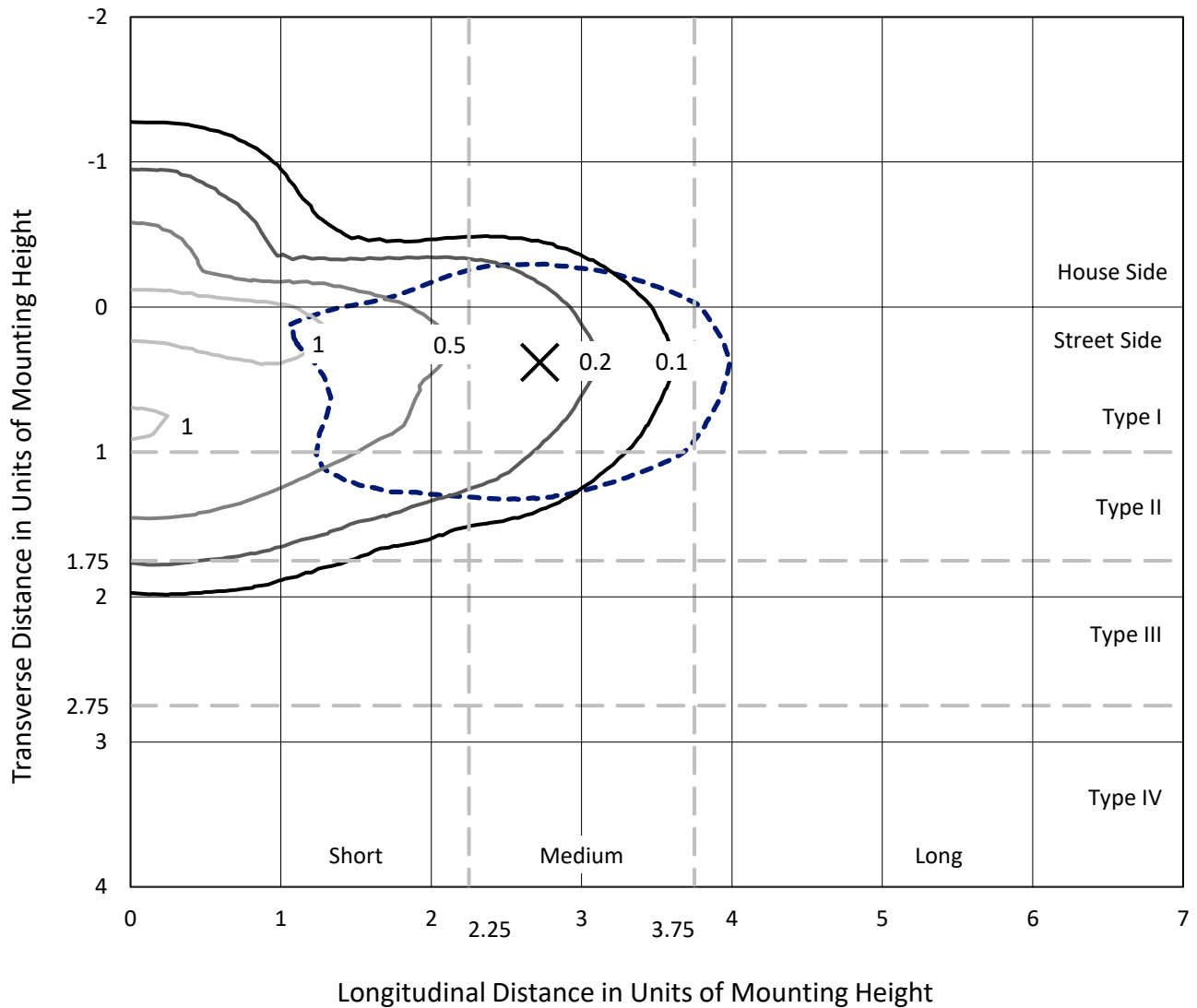
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

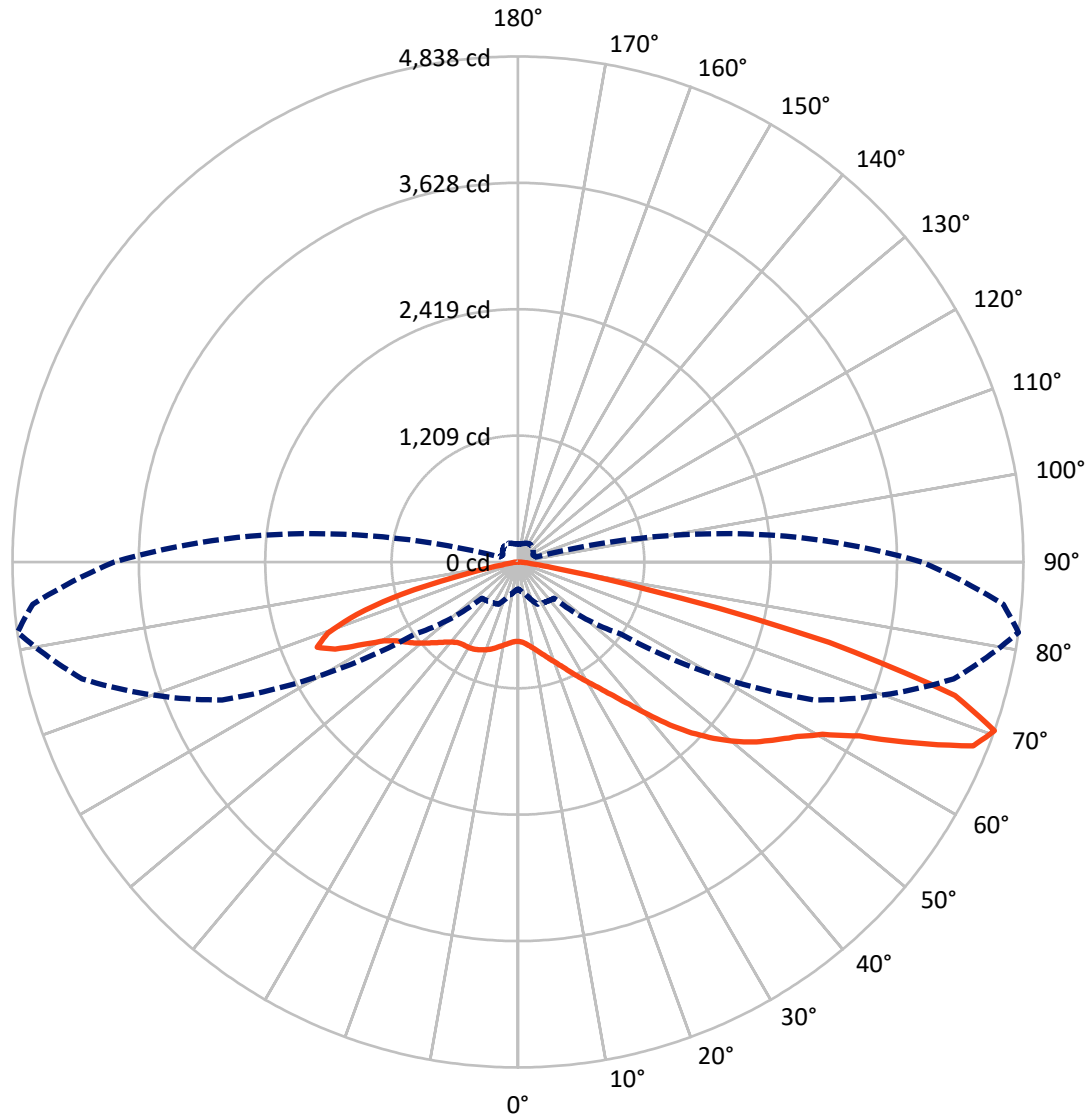
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1276.3	0.0	1276.3
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	3900.7	0.0	3900.7
	% Fixture	75.3	0.0	75.3
Total	Lumens	5177.0	0.0	5177.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.7	1.4
10°-20°	205.9	4.0
20°-30°	344.4	6.7
30°-40°	538.1	10.4
40°-50°	857.0	16.6
50°-60°	1192.6	23.0
60°-70°	1247.5	24.1
70°-80°	652.0	12.6
80°-90°	67.7	1.3
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°	5177.0	100.0
0°-180°	5177.0	100.0

Coefficient of Utilization



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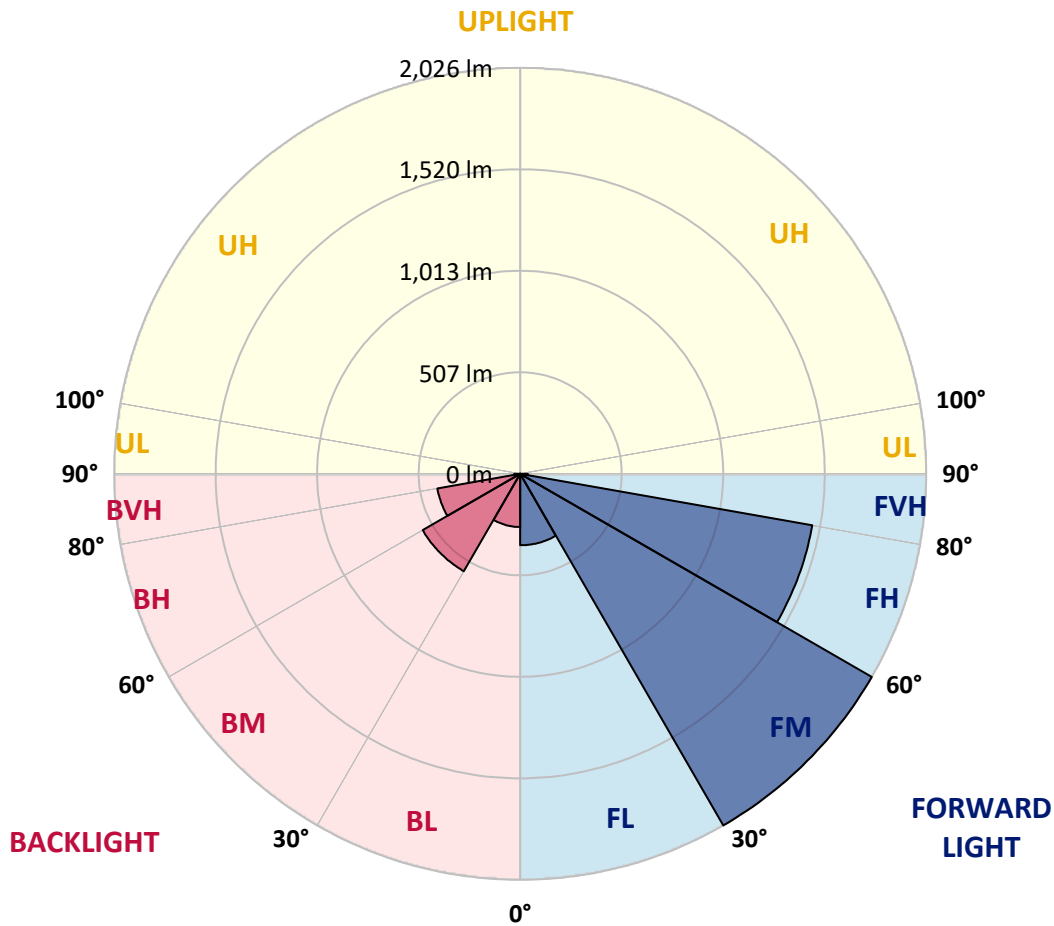
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	356.5	6.9			
FM (30°-60°)	2026.2	39.1			
FH (60°-80°)	1480.1	28.6			G1/1800
FVH (80°-90°)	37.9	0.7			G1/100
BL (0°-30°)	265.5	5.1	B1/500		
BM (30°-60°)	561.5	10.8	B1/1000		
BH (60°-80°)	419.4	8.1	B1/500		G1/500
BVH (80°-90°)	29.8	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	759.0	759.0	759.0	759.0	759.0	759.0	759.0	759.0	759.0	759.0	759.0
2.5°	777.1	781.5	780.2	778.8	778.8	776.9	776.6	773.8	771.6	768.1	767.3
5°	787.0	791.7	791.2	792.3	795.8	796.6	797.5	795.8	791.4	787.0	785.1
7.5°	778.2	783.5	785.1	791.7	802.7	812.6	820.0	823.0	818.9	812.6	809.6
10°	748.6	754.3	760.1	775.8	795.3	818.6	838.4	850.2	849.4	843.3	838.1
12.5°	688.4	694.5	706.8	737.3	773.0	814.2	851.0	875.8	884.3	879.9	870.8
15°	640.3	645.6	654.9	686.2	732.6	795.3	855.7	903.8	925.5	923.0	912.0
17.5°	639.0	641.2	646.9	661.8	697.5	765.6	850.8	931.3	972.7	972.5	958.7
20°	663.1	664.0	667.3	670.3	690.6	743.1	838.1	954.1	1025.8	1025.8	1010.9
22.5°	696.7	696.1	699.4	696.7	706.5	741.2	830.2	974.1	1084.8	1089.2	1070.5
25°	746.9	744.2	743.4	737.0	739.0	759.0	839.0	996.9	1154.9	1163.9	1140.6
27.5°	814.0	809.6	806.5	792.0	787.0	795.8	865.9	1024.4	1232.9	1248.5	1218.9
30°	901.3	893.3	888.9	863.7	845.8	847.2	906.5	1060.9	1314.5	1339.7	1302.1
32.5°	1020.5	1008.2	996.4	954.9	922.2	911.5	959.0	1111.5	1402.9	1443.3	1395.0
35°	1154.0	1144.2	1131.5	1067.5	1017.2	992.5	1029.9	1182.1	1506.5	1570.5	1507.6
37.5°	1282.6	1274.1	1280.1	1193.9	1129.0	1093.1	1122.7	1276.8	1634.2	1728.7	1648.8
40°	1415.6	1409.0	1409.8	1327.4	1251.8	1211.5	1235.4	1395.8	1780.6	1916.9	1818.6
42.5°	1560.1	1555.1	1538.6	1465.6	1380.7	1343.0	1365.0	1533.1	1937.8	2131.2	2004.8
45°	1721.9	1718.8	1703.5	1619.7	1522.4	1480.1	1509.8	1684.8	2095.7	2332.8	2191.9
47.5°	1861.7	1864.2	1862.2	1791.6	1690.8	1628.7	1664.2	1843.0	2242.7	2522.4	2371.3
50°	1929.0	1941.9	1960.9	1938.9	1876.2	1813.1	1819.9	1995.7	2382.8	2700.1	2543.2
52.5°	1893.8	1918.3	1969.9	2005.1	2029.3	2016.1	1997.7	2147.4	2514.7	2860.5	2705.9
55°	1762.8	1797.1	1882.8	1967.7	2091.1	2186.9	2211.1	2315.5	2643.2	3001.7	2859.7
57.5°	1524.1	1579.8	1656.8	1828.4	2036.1	2269.6	2460.0	2548.7	2779.5	3152.5	3020.7
60°	1114.8	1189.5	1285.1	1540.6	1843.8	2225.4	2671.8	2906.9	2973.1	3347.8	3230.3
62.5°	713.4	759.6	847.5	1088.1	1436.7	1998.8	2736.6	3354.7	3301.4	3668.2	3544.5
65°	488.4	518.1	598.6	733.7	928.8	1487.8	2563.0	3690.4	3822.8	4175.8	4081.9
67.5°	354.9	377.4	446.1	564.5	605.2	880.4	1988.9	3675.0	4329.6	4698.8	4552.7
70°	258.8	274.7	332.4	446.1	465.6	489.8	1204.9	3124.0	4318.7	4837.8	4662.9
72.5°	191.7	202.7	241.5	346.1	376.9	330.7	596.4	2270.4	3711.0	4375.8	4235.4
75°	138.7	147.0	175.5	264.8	301.6	251.9	297.5	1326.8	2588.6	3078.1	3102.8
77.5°	106.0	112.4	131.0	193.9	241.5	189.0	184.6	610.4	1227.4	1233.4	1302.7
80°	85.2	89.3	99.4	136.5	185.2	141.5	120.3	246.4	387.9	328.3	344.5
82.5°	62.6	69.5	84.1	95.9	132.4	97.5	73.3	124.4	147.5	126.9	128.0
85°	35.7	40.4	50.8	68.7	84.6	59.6	42.0	55.2	68.7	56.3	50.3
87.5°	12.6	16.5	17.9	26.9	36.8	24.7	16.2	15.9	22.5	16.8	14.0
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°	759.0	759.0	759.0	759.0	759.0	759.0	759.0	759.0	759.0	759.0	759.0
2.5°	764.5	763.1	757.6	750.2	742.5	735.1	732.6	727.4	723.9	721.9	724.1
5°	779.9	775.5	762.6	746.1	728.8	710.1	696.9	684.8	676.1	667.8	671.1
7.5°	801.9	794.2	771.9	743.1	712.3	681.3	658.2	640.6	628.8	621.1	622.8
10°	827.4	815.6	781.5	738.4	690.9	646.4	619.2	604.1	596.7	592.5	593.6
12.5°	856.8	840.1	791.4	727.7	658.2	607.4	588.7	584.3	584.6	584.8	585.4
15°	893.1	869.7	799.4	704.3	615.6	577.4	574.1	581.3	588.7	592.3	592.0
17.5°	934.0	901.0	800.8	665.9	573.9	558.2	568.6	584.0	595.3	600.2	601.3
20°	978.0	932.9	790.9	611.5	539.5	542.5	561.2	581.0	593.4	599.7	601.3
22.5°	1028.2	967.0	767.3	554.4	511.5	525.5	547.5	566.7	579.6	585.9	587.6
25°	1085.6	1005.1	730.2	506.3	487.3	506.3	528.3	544.2	554.6	560.4	562.0
27.5°	1149.4	1045.0	680.7	468.1	466.2	486.5	504.6	517.0	522.5	526.9	528.5
30°	1213.4	1081.2	620.8	439.3	447.8	467.0	479.9	485.4	487.1	487.9	489.8
32.5°	1282.6	1112.6	557.9	415.4	430.2	448.0	455.7	458.2	450.5	445.3	446.9
35°	1366.4	1146.1	496.4	396.4	412.9	428.3	430.7	428.5	419.5	408.8	409.3
37.5°	1470.0	1187.8	447.2	382.9	396.7	406.8	403.8	403.3	404.1	391.5	392.3
40°	1596.9	1242.2	411.2	372.5	383.5	385.7	377.2	381.8	386.0	366.7	367.3
42.5°	1737.8	1307.9	388.4	365.4	372.5	367.3	354.1	359.3	358.8	333.5	333.2
45°	1881.5	1379.3	380.5	360.1	362.3	351.9	337.3	338.7	327.2	304.4	305.2
47.5°	2024.3	1455.9	385.4	355.7	349.7	337.9	326.6	320.6	303.6	286.5	286.5
50°	2164.4	1536.4	403.5	347.0	332.4	325.5	317.3	306.6	288.4	273.9	272.8
52.5°	2294.3	1617.5	423.9	332.4	310.7	314.8	309.6	297.2	279.4	264.5	264.8
55°	2417.4	1698.5	431.8	312.3	290.4	305.5	302.5	279.7	258.2	246.1	245.0
57.5°	2551.5	1796.0	423.0	286.8	273.9	294.8	283.2	257.9	245.6	236.5	235.7
60°	2737.2	1949.0	404.1	255.2	258.2	278.8	259.0	248.6	235.1	225.0	224.4
62.5°	3045.7	2234.5	373.6	223.9	239.8	255.2	247.5	237.1	223.3	213.4	213.4
65°	3501.7	2631.1	316.2	199.4	219.2	232.1	235.1	224.7	210.4	200.0	200.5
67.5°	3886.3	2880.0	239.3	179.1	198.1	213.4	222.0	211.8	196.7	186.5	186.8
70°	3865.1	2699.3	182.7	159.1	179.4	195.0	206.0	198.1	181.9	172.2	173.1
72.5°	3433.0	2258.1	147.8	138.7	160.4	175.8	189.0	183.0	166.5	157.1	157.1
75°	2522.1	1602.9	118.1	118.1	136.8	155.8	170.3	166.5	151.4	144.8	142.8
77.5°	1063.1	672.5	92.6	98.1	113.7	133.8	151.9	153.3	140.1	148.3	134.6
80°	282.7	185.4	70.6	77.2	89.3	110.4	132.1	131.6	117.3	109.6	101.9
82.5°	107.7	73.1	50.3	54.4	64.6	84.6	104.7	108.0	93.7	81.0	81.0
85°	41.5	31.3	31.0	32.7	37.6	56.0	79.1	81.9	70.6	59.9	61.8
87.5°	10.7	9.3	11.5	11.0	17.3	29.9	45.3	47.0	43.1	25.0	35.7
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)