

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: P938894

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

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P938894  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)  
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-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 70 CRI, 2700K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE II OPTICS WITH  
HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

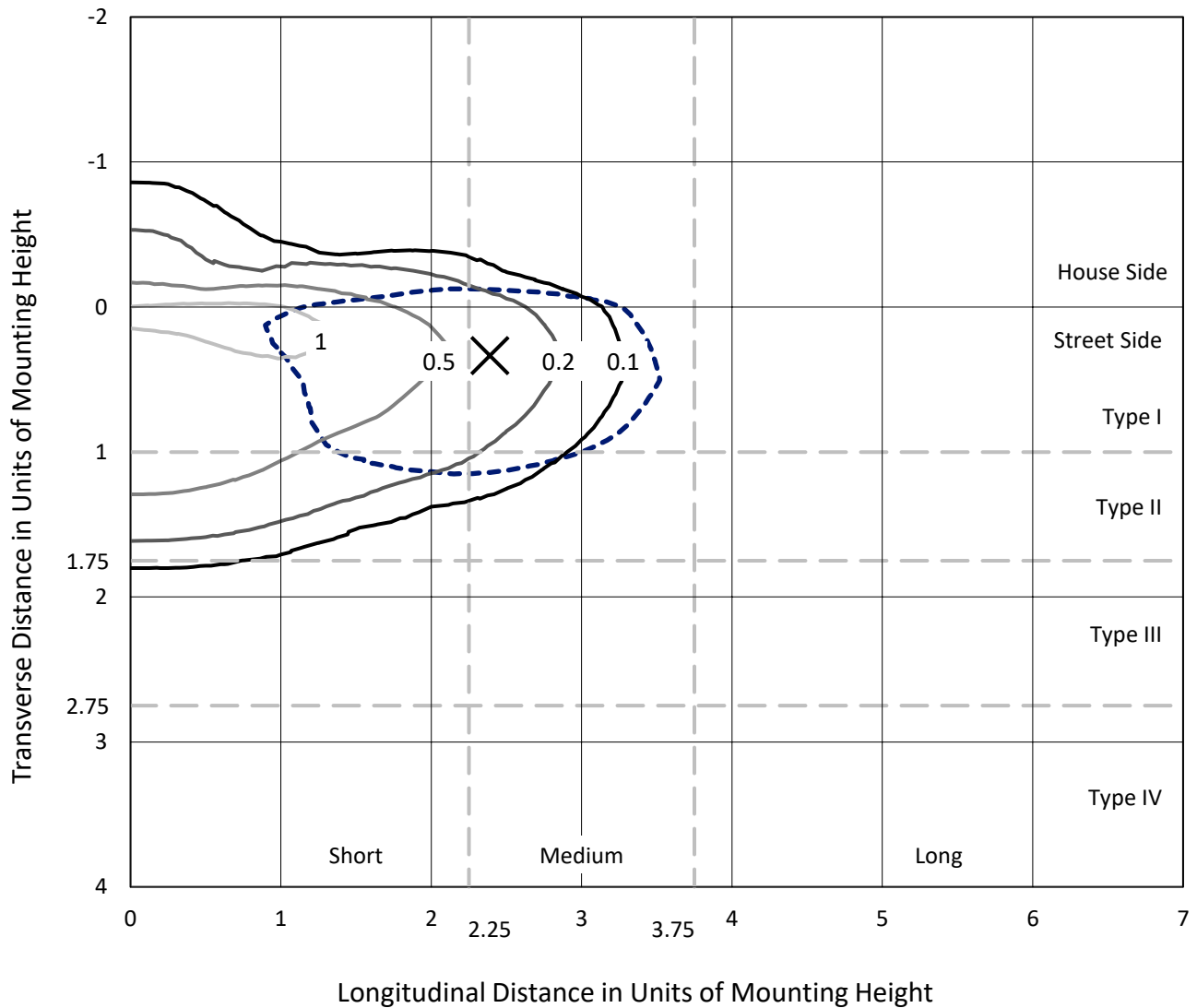
Lumens per Lamp: N/A  
Luminaire Lumens: 3815 lumens  
Efficiency: N/A  
Efficacy: 95.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 39.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

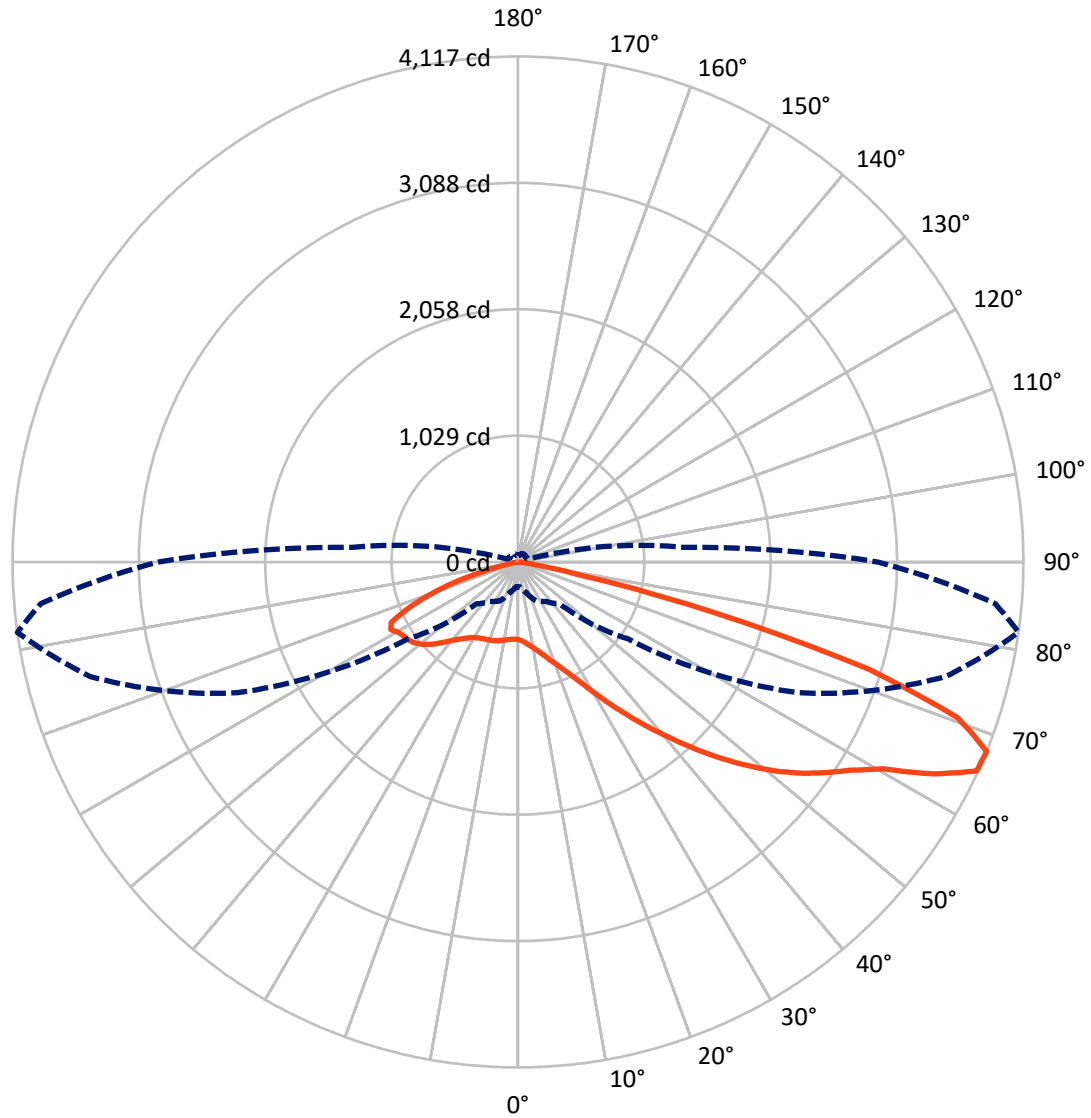
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	691.0	0.0	691.0
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	3123.9	0.0	3123.9
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	3815.0	0.0	3815.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	56.3	1.5
10°-20°	146.3	3.8
20°-30°	234.4	6.1
30°-40°	414.4	10.9
40°-50°	726.1	19.0
50°-60°	968.4	25.4
60°-70°	901.6	23.6
70°-80°	346.0	9.1
80°-90°	21.5	0.6
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°	3815.0	100.0
0°-180°	3815.0	100.0

**Coefficient of Utilization**



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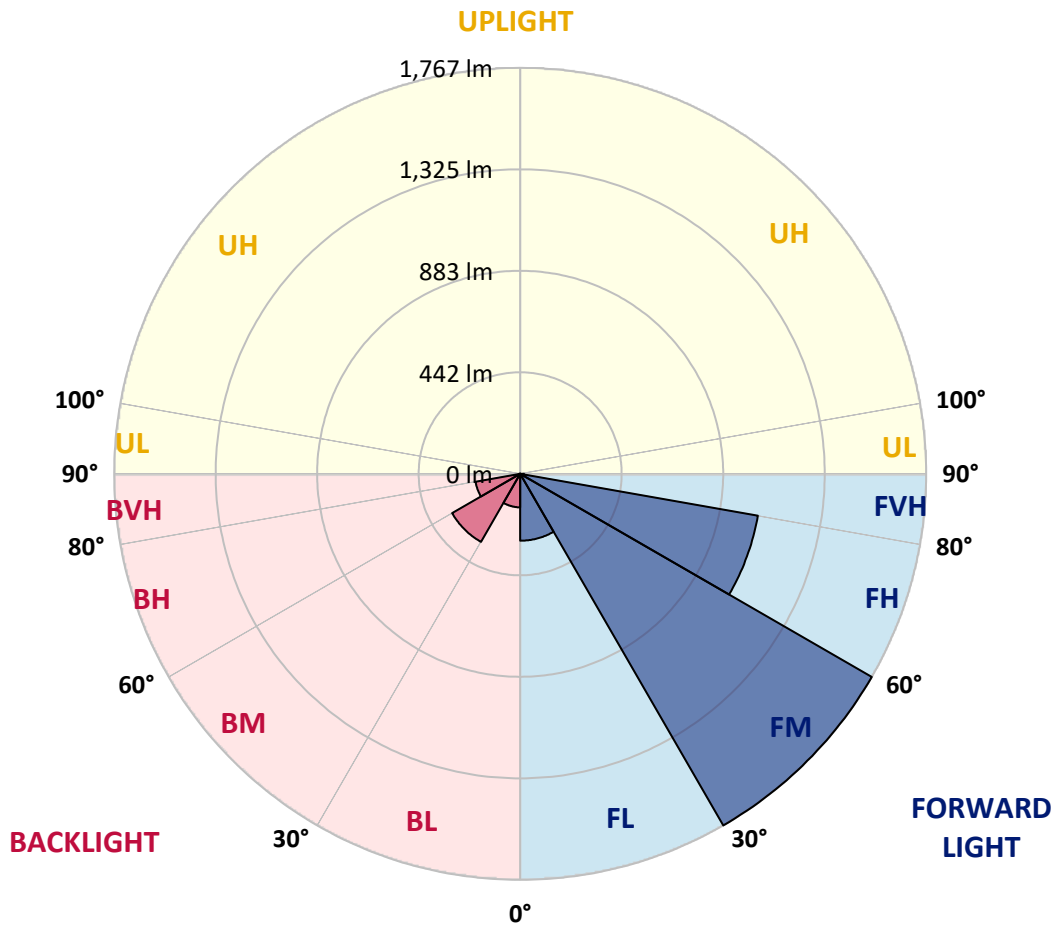
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	291.0	7.6			
FM (30°-60°)	1767.0	46.3			
FH (60°-80°)	1050.3	27.5			G1/1800
FVH (80°-90°)	15.6	0.4			G1/100
BL (0°-30°)	145.9	3.8	B1/500		
BM (30°-60°)	342.0	9.0	B1/1000		
BH (60°-80°)	197.2	5.2	B1/500		G1/500
BVH (80°-90°)	5.9	0.2			G0/10
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°	632.0	632.0	632.0	632.0	632.0	632.0	632.0	632.0	632.0	632.0	632.0
2.5°	668.0	671.8	669.6	668.5	666.6	663.9	661.7	654.8	647.7	643.0	641.4
5°	681.5	685.3	685.0	686.1	687.5	688.3	687.8	680.1	669.9	662.0	657.3
7.5°	669.9	674.3	677.9	683.4	693.0	703.2	708.1	706.5	696.0	685.0	679.3
10°	637.2	641.9	650.4	663.3	683.7	705.6	724.0	732.5	726.0	713.9	705.9
12.5°	577.4	582.0	598.8	626.8	660.9	699.0	734.2	757.0	758.6	746.6	737.2
15°	510.1	514.7	532.6	567.7	619.7	680.9	739.7	782.8	797.4	786.9	775.7
17.5°	468.3	472.4	485.9	514.2	568.3	644.7	737.8	810.3	843.5	835.3	821.8
20°	455.7	459.2	465.6	485.3	530.4	607.0	725.1	836.1	893.2	888.6	873.5
22.5°	469.1	472.4	474.4	483.1	511.4	582.3	709.2	862.5	950.9	951.5	933.1
25°	500.2	503.5	501.3	506.8	519.1	574.6	703.2	893.5	1023.4	1029.5	1008.6
27.5°	551.3	551.5	546.3	546.0	548.0	586.1	709.5	926.7	1114.9	1126.1	1100.3
30°	653.7	649.6	629.5	607.8	598.0	620.8	727.1	966.0	1222.8	1242.9	1210.5
32.5°	811.7	805.6	768.8	716.9	664.7	676.5	758.6	1010.8	1340.4	1376.6	1337.1
35°	983.0	981.4	942.9	865.8	774.6	755.9	810.0	1069.6	1468.7	1526.3	1479.4
37.5°	1142.4	1141.5	1119.6	1028.6	917.7	866.6	892.4	1146.5	1606.0	1689.5	1634.0
40°	1287.9	1290.4	1268.4	1187.1	1075.3	1008.6	1004.5	1241.5	1758.7	1867.2	1801.3
42.5°	1413.7	1416.5	1394.2	1334.1	1231.1	1165.7	1142.1	1358.0	1907.9	2058.1	1980.1
45°	1499.2	1516.2	1512.9	1464.8	1390.9	1323.1	1307.4	1504.1	2077.9	2260.5	2169.1
47.5°	1523.3	1539.0	1563.7	1570.3	1525.2	1458.5	1477.2	1680.2	2249.8	2463.2	2359.1
50°	1463.7	1478.3	1529.6	1598.0	1629.3	1608.7	1642.3	1868.9	2425.9	2665.4	2545.6
52.5°	1346.2	1361.0	1425.8	1534.0	1661.8	1726.6	1807.9	2054.8	2596.5	2856.8	2722.3
55°	1176.1	1191.8	1275.0	1397.5	1600.0	1775.2	1946.0	2240.5	2752.7	3029.1	2881.6
57.5°	944.9	956.4	1042.9	1214.3	1444.5	1726.9	2047.9	2443.2	2900.0	3198.3	3039.5
60°	615.8	626.0	726.5	917.7	1186.9	1565.3	2068.3	2669.2	3095.5	3418.3	3252.4
62.5°	409.5	416.4	476.0	616.4	835.8	1255.2	1949.3	2849.7	3382.3	3801.2	3617.4
65°	281.0	287.9	347.5	445.2	540.0	830.3	1607.4	2825.8	3642.1	4105.2	3888.0
67.5°	200.5	206.3	256.8	349.1	390.9	482.3	1089.6	2520.4	3604.8	4116.8	3902.5
70°	143.7	146.9	188.7	271.9	310.7	289.8	605.9	1927.6	3156.2	3801.4	3605.3
72.5°	100.5	101.6	131.0	207.1	250.2	211.5	288.4	1285.2	2387.2	2983.7	2795.0
75°	68.1	69.5	88.2	151.9	200.8	161.5	152.7	689.1	1401.4	1651.6	1480.5
77.5°	41.7	42.3	56.9	103.8	150.2	123.1	98.3	292.0	542.2	532.3	453.8
80°	23.6	23.6	36.3	64.5	102.5	79.4	68.9	124.2	171.7	150.8	132.9
82.5°	13.2	13.5	26.4	40.1	67.8	47.0	37.9	57.4	74.2	65.6	57.1
85°	5.5	6.0	16.2	19.0	32.4	23.3	15.4	24.2	27.5	24.4	17.9
87.5°	0.5	0.8	4.9	3.6	3.8	4.7	2.2	4.7	3.8	3.8	2.7
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°	632.0	632.0	632.0	632.0	632.0	632.0	632.0	632.0	632.0	632.0	632.0
2.5°	636.1	632.0	621.6	609.5	593.6	585.9	575.4	568.3	562.3	562.8	557.3
5°	648.5	638.1	614.7	585.6	549.3	523.5	496.1	477.1	461.7	458.4	451.0
7.5°	665.5	649.0	608.1	555.7	494.4	448.0	406.5	379.9	360.9	354.9	348.8
10°	687.5	663.6	599.6	518.0	429.9	370.8	326.3	305.4	292.5	288.1	284.8
12.5°	713.0	680.4	588.3	472.2	363.4	306.5	278.2	267.8	263.7	262.3	261.5
15°	745.2	701.2	571.3	417.8	307.1	267.3	255.2	253.8	254.3	253.8	253.5
17.5°	783.4	724.0	543.6	361.7	269.2	247.2	242.8	243.9	245.3	245.0	244.5
20°	825.1	746.6	508.1	312.0	243.4	232.9	230.4	231.5	232.6	232.1	231.8
22.5°	872.6	770.7	468.9	273.3	226.1	219.7	217.0	217.3	217.3	216.2	215.6
25°	929.5	797.4	427.7	245.8	212.9	207.9	204.6	203.5	201.9	198.6	198.0
27.5°	997.3	825.7	388.1	226.6	202.4	197.8	193.9	191.2	187.1	181.6	181.0
30°	1073.7	860.0	354.6	214.5	194.2	189.5	185.1	181.0	175.0	168.1	167.5
32.5°	1163.5	896.8	330.2	206.6	186.8	181.8	176.6	171.7	165.1	158.2	158.5
35°	1270.6	941.3	315.9	201.1	181.0	174.4	168.6	163.2	158.2	152.2	151.6
37.5°	1386.8	988.5	311.5	198.3	177.2	167.0	160.4	156.6	156.0	152.4	152.2
40°	1514.0	1044.6	314.8	196.7	173.0	159.9	152.7	151.9	153.3	146.9	147.2
42.5°	1648.6	1111.0	320.3	194.7	167.3	152.7	145.8	145.8	144.8	136.0	136.0
45°	1794.1	1187.7	325.8	190.1	160.4	145.6	140.4	138.4	133.8	125.2	125.0
47.5°	1940.8	1265.7	329.9	181.6	152.2	139.5	134.9	130.5	123.6	115.9	115.6
50°	2080.1	1335.7	325.5	168.9	142.8	133.8	128.8	122.8	115.4	110.1	109.3
52.5°	2204.5	1396.4	306.8	154.1	132.9	127.7	123.3	117.0	111.0	105.5	104.9
55°	2312.7	1445.6	273.8	140.1	124.2	122.5	118.1	110.1	101.9	97.2	96.7
57.5°	2416.5	1482.9	232.6	128.5	116.2	116.7	110.1	103.0	95.3	90.4	89.8
60°	2554.7	1532.9	190.9	117.8	107.7	109.3	102.2	97.0	87.3	81.0	80.2
62.5°	2775.5	1610.7	151.6	104.6	97.8	98.3	95.3	89.0	77.5	70.0	69.5
65°	2950.8	1582.1	119.5	90.4	86.5	87.3	87.3	80.5	68.1	59.6	58.8
67.5°	2931.0	1354.7	95.3	76.4	75.8	76.4	78.3	72.5	60.4	53.6	52.5
70°	2700.0	1077.5	76.4	63.4	65.9	64.5	70.0	66.2	54.4	47.5	46.7
72.5°	2203.1	776.2	58.2	52.5	50.5	52.7	63.2	59.6	45.3	37.6	36.8
75°	1287.4	414.2	43.4	41.5	36.5	43.9	56.0	50.8	34.6	27.7	26.9
77.5°	419.1	144.5	31.9	30.5	27.2	35.4	47.8	42.8	28.3	22.0	21.1
80°	112.3	43.7	21.7	20.1	17.6	26.4	37.9	34.1	20.3	14.3	14.0
82.5°	45.0	18.4	12.6	11.3	9.6	18.1	29.9	27.5	15.1	9.1	9.1
85°	14.6	6.0	4.7	3.6	4.4	11.3	17.9	18.7	10.7	4.7	3.6
87.5°	1.9	0.8	0.8	1.1	0.8	1.9	5.5	5.2	3.0	0.5	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)