

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: P526864

Luminaire Tested: **GALN-SA1D-750-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526864
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1D-750-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE II ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6878 lumens
Efficiency: N/A
Efficacy: 105.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

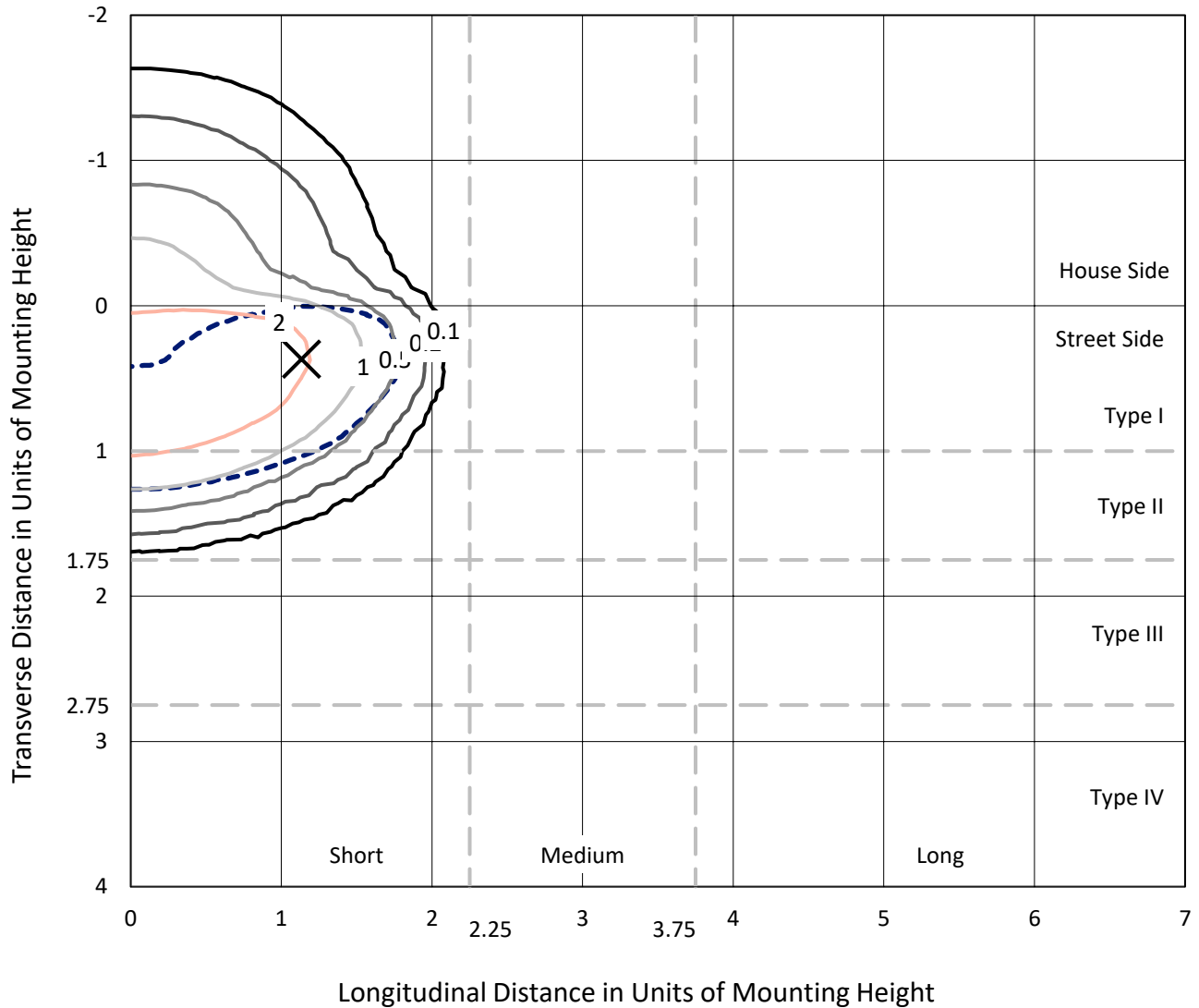
Input Watts (W): 65
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

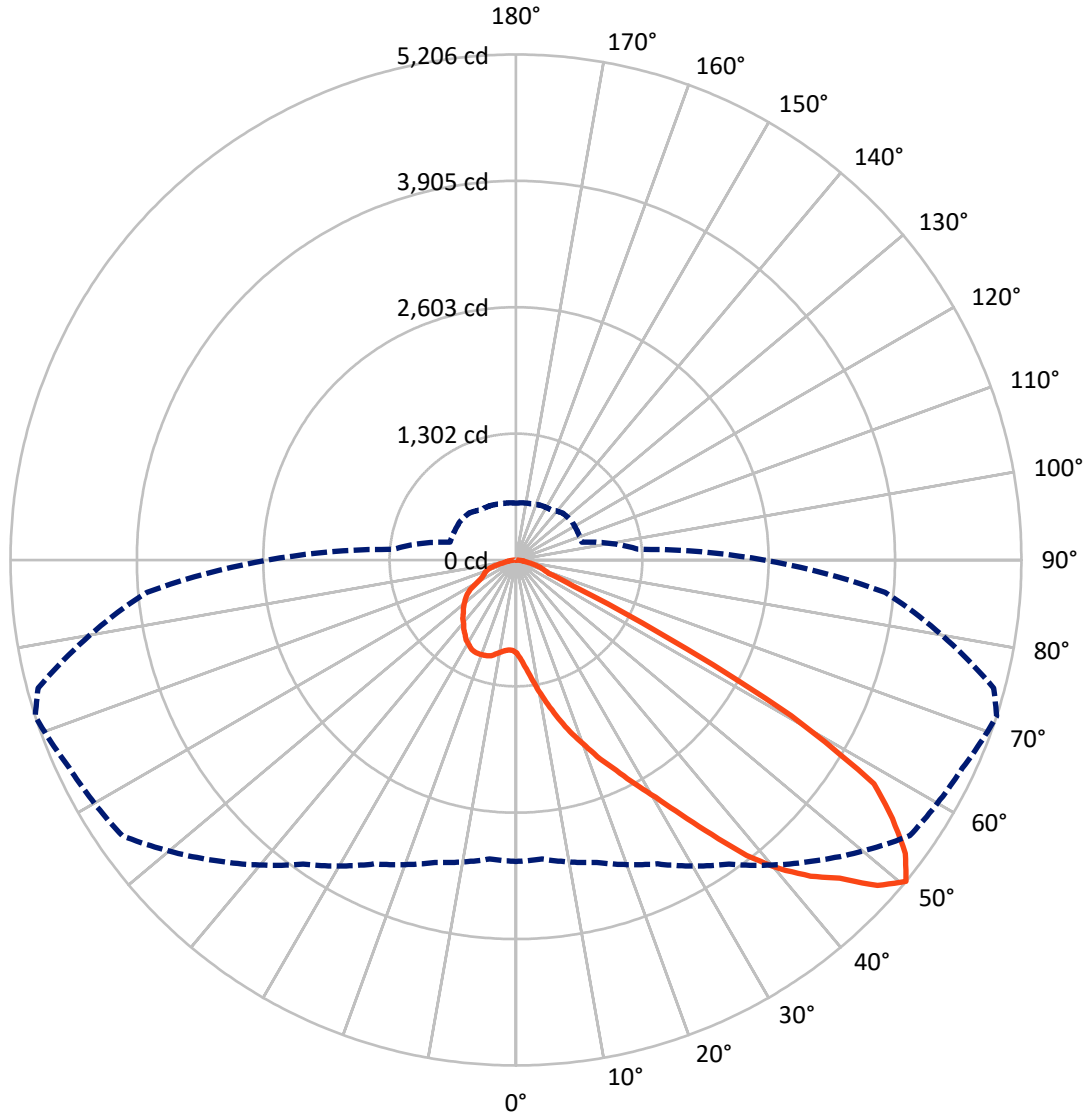
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1575.8	0.0	1575.8
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	5302.2	0.0	5302.2
	% Fixture	77.1	0.0	77.1
Total	Lumens	6878.0	0.0	6878.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.6	1.6
10°-20°	421.0	6.1
20°-30°	816.3	11.9
30°-40°	1352.4	19.7
40°-50°	1892.3	27.5
50°-60°	1596.4	23.2
60°-70°	486.6	7.1
70°-80°	170.7	2.5
80°-90°	29.7	0.4
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°	6878.0	100.0
0°-180°	6878.0	100.0

Coefficient of Utilization

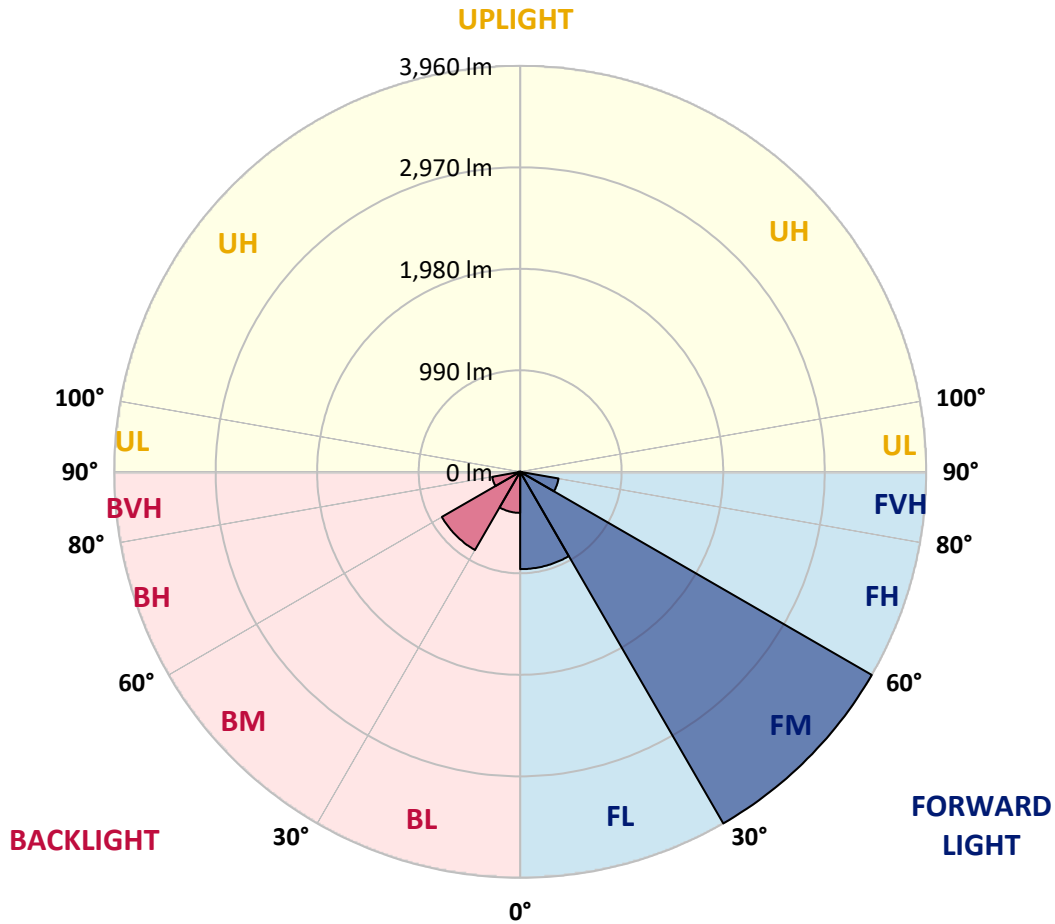


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	949.4	13.8			
FM (30°-60°)	3959.9	57.6			
FH (60°-80°)	379.7	5.5			G0/660
FVH (80°-90°)	13.3	0.2			G1/100
BL (0°-30°)	400.6	5.8	B1/500		
BM (30°-60°)	881.2	12.8	B1/1000		
BH (60°-80°)	277.6	4.0	B1/500		G1/500
BVH (80°-90°)	16.4	0.2			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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	957.5	957.5	957.5	957.5	957.5	957.5	957.5	957.5	957.5	957.5	957.5
2.5°	1231.5	1223.9	1200.9	1193.2	1166.0	1116.6	1099.6	1049.4	1028.1	1008.5	985.6
5°	1557.5	1521.7	1519.2	1475.8	1412.8	1376.2	1267.3	1194.1	1126.8	1092.8	1029.8
7.5°	1765.2	1766.0	1766.0	1730.3	1680.1	1587.3	1489.4	1357.5	1256.2	1206.0	1098.8
10°	1962.6	1945.6	1936.2	1932.8	1898.8	1808.6	1703.9	1540.5	1401.7	1343.0	1150.7
12.5°	2102.2	2087.7	2109.0	2097.9	2073.3	2014.5	1915.8	1729.4	1555.8	1476.6	1234.1
15°	2168.6	2178.8	2195.8	2226.5	2215.4	2193.3	2084.3	1923.5	1721.8	1632.4	1308.1
17.5°	2270.7	2242.6	2263.0	2301.3	2332.0	2321.8	2259.6	2063.9	1886.0	1776.2	1407.7
20°	2342.2	2326.0	2336.2	2380.5	2403.5	2461.4	2429.0	2247.7	2043.5	1927.7	1525.2
22.5°	2546.5	2522.6	2489.4	2496.2	2504.8	2545.6	2553.3	2449.4	2226.5	2103.9	1636.6
25°	2798.4	2776.3	2737.1	2697.1	2672.4	2664.8	2691.1	2607.7	2401.8	2275.0	1756.6
27.5°	3075.8	3038.4	3013.7	2931.2	2864.8	2854.6	2841.8	2796.7	2609.4	2472.4	1892.0
30°	3345.6	3315.8	3282.7	3150.7	3081.8	3070.7	3007.8	3020.5	2835.0	2682.6	2045.2
32.5°	3549.9	3552.4	3476.7	3377.1	3312.4	3253.7	3230.7	3267.3	3124.4	3001.8	2216.2
35°	3715.0	3722.7	3650.3	3560.1	3490.3	3531.2	3521.0	3538.0	3469.9	3320.1	2415.4
37.5°	3875.9	3837.6	3760.1	3716.7	3680.1	3747.3	3834.2	3848.6	3861.4	3685.2	2646.9
40°	3902.2	3905.7	3860.5	3891.2	3845.2	3946.5	4148.2	4129.5	4181.4	4027.4	2898.0
42.5°	3864.8	3872.5	3890.3	3933.7	4044.4	4166.1	4465.7	4389.1	4452.1	4315.0	3142.2
45°	3803.5	3772.0	3794.2	3959.3	4150.8	4421.4	4755.9	4696.3	4675.9	4561.0	3433.3
47.5°	3510.7	3543.1	3612.0	3815.4	4103.1	4465.7	4961.9	4948.2	5009.5	4928.7	3698.0
50°	3104.8	3092.0	3224.8	3453.7	3824.8	4378.9	4950.8	5074.2	5206.1	5093.8	3816.3
52.5°	2325.2	2393.3	2507.3	2791.6	3321.0	3905.7	4709.1	4915.0	5022.3	4998.5	3721.0
55°	1469.8	1490.3	1559.2	1897.1	2373.7	3134.6	4036.7	4514.2	4705.7	4795.0	3633.3
57.5°	714.1	675.8	760.0	1031.5	1371.1	2108.1	3113.3	3932.0	4348.2	4509.9	3442.7
60°	372.8	387.2	420.4	517.5	709.0	1094.5	1940.5	2620.5	3256.3	3504.8	2609.4
62.5°	308.9	314.1	336.2	384.7	471.5	629.8	990.7	1277.5	1660.5	1884.3	1484.3
65°	262.1	264.7	288.5	320.9	376.2	443.4	509.8	533.6	646.0	663.0	527.7
67.5°	218.7	221.3	246.8	277.5	313.2	331.1	348.1	346.4	359.2	354.1	353.2
70°	168.5	171.1	197.5	229.8	247.7	237.5	290.2	302.1	307.2	311.5	318.3
72.5°	121.7	126.8	147.2	170.2	160.9	184.7	239.2	257.0	263.8	266.4	274.9
75°	88.5	90.2	95.3	88.5	102.1	128.5	168.5	190.6	199.2	201.7	214.5
77.5°	39.2	40.0	40.9	51.1	65.5	80.0	100.4	118.3	130.2	133.6	137.0
80°	20.4	21.3	26.4	34.9	46.8	58.7	73.2	83.4	91.1	91.9	95.3
82.5°	12.8	13.6	18.7	24.7	33.2	43.4	53.6	62.1	68.1	68.9	69.8
85°	6.0	7.7	11.1	15.3	22.1	28.1	28.9	24.7	26.4	27.2	25.5
87.5°	1.7	2.6	3.4	2.6	3.4	3.4	4.3	5.1	5.1	5.1	6.0
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°	957.5	957.5	957.5	957.5	957.5	957.5	957.5	957.5	957.5	957.5	957.5
2.5°	972.8	965.1	935.3	924.3	895.3	900.5	885.1	884.3	880.9	880.0	879.2
5°	996.6	972.8	937.1	909.8	893.6	891.9	880.9	880.9	884.3	886.8	880.9
7.5°	1035.8	1008.5	948.1	922.6	908.1	905.6	897.9	891.9	899.6	897.0	890.2
10°	1080.9	1033.2	969.4	947.3	923.4	917.5	917.5	920.0	907.3	911.5	904.7
12.5°	1131.1	1067.3	996.6	971.1	943.0	939.6	937.9	919.2	926.0	922.6	905.6
15°	1194.9	1106.4	1031.5	988.1	964.3	949.0	926.8	923.4	919.2	910.7	903.0
17.5°	1263.9	1149.0	1047.7	993.2	957.5	946.4	929.4	911.5	898.8	900.5	894.5
20°	1322.6	1188.1	1053.6	998.3	952.4	931.1	904.7	893.6	880.0	879.2	878.3
22.5°	1392.4	1240.9	1062.2	984.7	937.1	914.9	897.0	877.5	868.1	856.2	862.2
25°	1475.8	1261.3	1063.9	977.1	926.0	886.8	877.5	856.2	852.8	835.8	839.2
27.5°	1536.2	1272.4	1050.2	953.2	900.5	870.7	853.6	838.3	832.4	819.6	816.2
30°	1617.1	1289.4	1021.3	923.4	874.9	841.7	831.5	828.1	811.1	797.5	795.8
32.5°	1709.0	1300.5	1002.6	892.8	848.5	823.0	828.1	811.9	790.7	778.7	775.3
35°	1782.2	1304.7	955.8	857.9	830.7	814.5	808.5	805.1	774.5	763.4	754.9
37.5°	1893.7	1295.4	916.6	833.2	811.1	805.1	800.0	777.0	742.2	726.0	714.1
40°	2023.9	1292.8	866.4	798.3	792.4	799.2	783.9	748.1	699.6	681.7	673.2
42.5°	2149.0	1310.7	834.9	779.6	771.9	774.5	753.2	699.6	675.8	665.6	651.9
45°	2358.4	1348.1	783.0	750.7	747.3	745.6	720.0	663.9	650.2	637.5	634.9
47.5°	2547.3	1323.4	749.8	720.9	724.3	714.9	660.4	642.6	627.3	614.5	610.2
50°	2558.4	1264.7	703.0	697.9	698.7	682.6	630.7	618.7	599.2	590.7	584.7
52.5°	2500.5	1168.5	659.6	661.3	663.9	637.5	594.1	585.5	569.4	557.5	554.1
55°	2337.9	1018.8	617.0	623.8	630.7	580.4	566.8	545.5	532.8	515.8	516.6
57.5°	2059.6	820.5	557.5	568.5	583.0	527.7	517.5	491.1	472.4	458.7	457.0
60°	1380.5	583.8	468.1	472.4	504.7	482.6	481.7	455.3	429.8	417.9	411.1
62.5°	814.5	446.0	404.3	400.0	399.2	411.9	433.2	423.8	390.7	367.7	374.5
65°	426.4	385.5	376.2	361.7	353.2	349.8	366.0	370.2	348.1	323.4	321.7
67.5°	358.3	358.3	350.6	345.5	333.6	319.2	308.9	295.3	291.9	285.1	276.6
70°	326.0	334.5	331.9	320.0	309.8	293.6	267.2	245.1	223.8	216.2	221.3
72.5°	284.3	292.8	292.8	286.8	273.2	248.5	223.0	197.5	179.6	166.0	164.3
75°	218.7	223.0	233.2	226.4	208.5	193.2	166.8	140.4	123.4	110.6	108.1
77.5°	139.6	146.4	146.4	145.5	132.8	118.3	101.3	82.6	69.8	60.4	57.9
80°	92.8	97.0	100.4	97.0	88.5	77.4	64.7	51.9	42.6	34.9	33.2
82.5°	68.1	73.2	75.7	72.3	63.8	55.3	46.0	36.6	27.2	21.3	19.6
85°	26.4	27.2	30.6	36.6	35.7	34.9	28.1	20.4	15.3	11.1	10.2
87.5°	6.8	6.0	6.8	6.8	6.0	5.1	5.1	5.1	5.1	2.6	3.4
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)