

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: P526212

Luminaire Tested: **GALN-SA1A-827-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526212
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1A-827-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS WITH
WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2853 lumens
Efficiency: N/A
Efficacy: 86.5 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

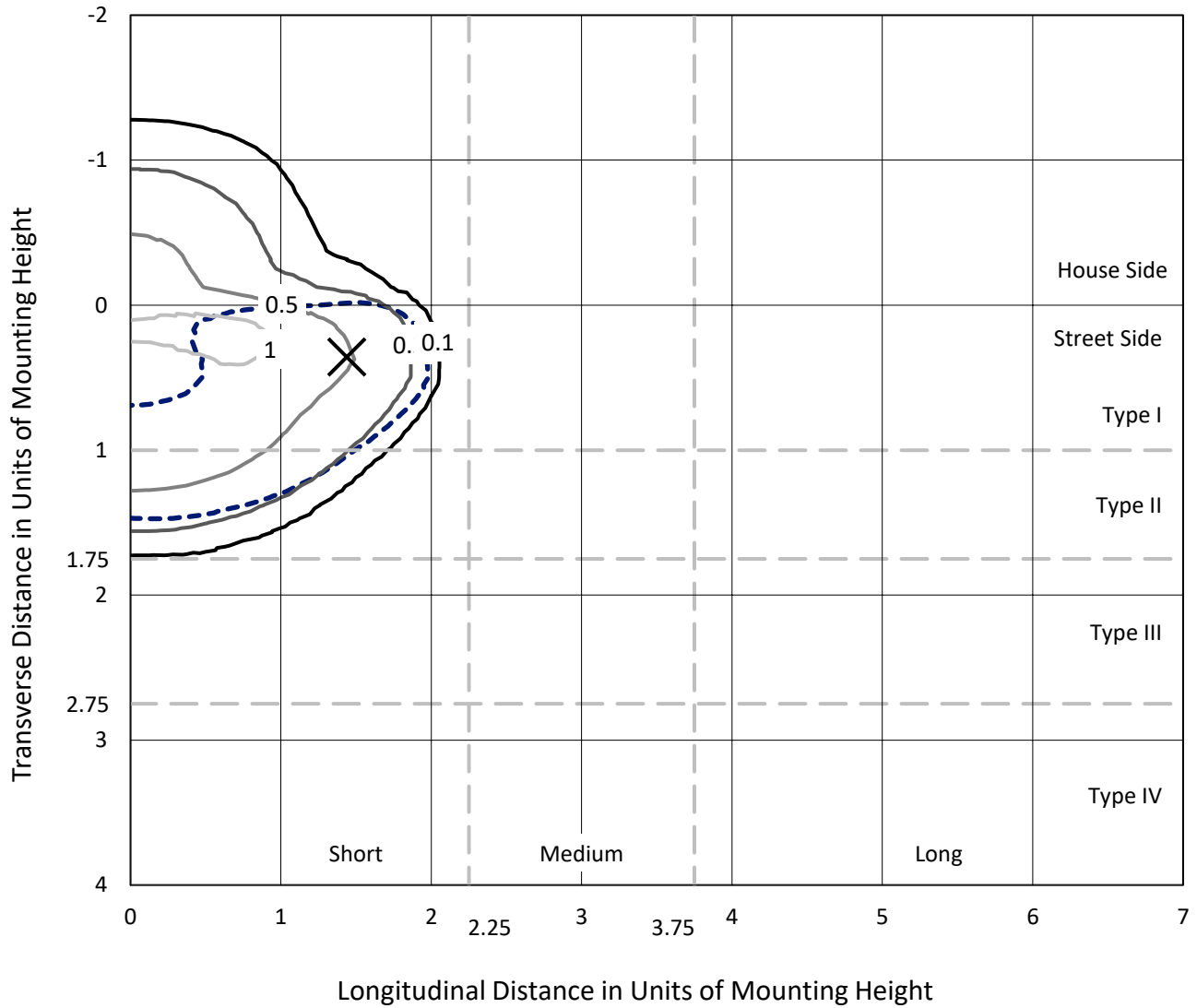
Input Watts (W): 33
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

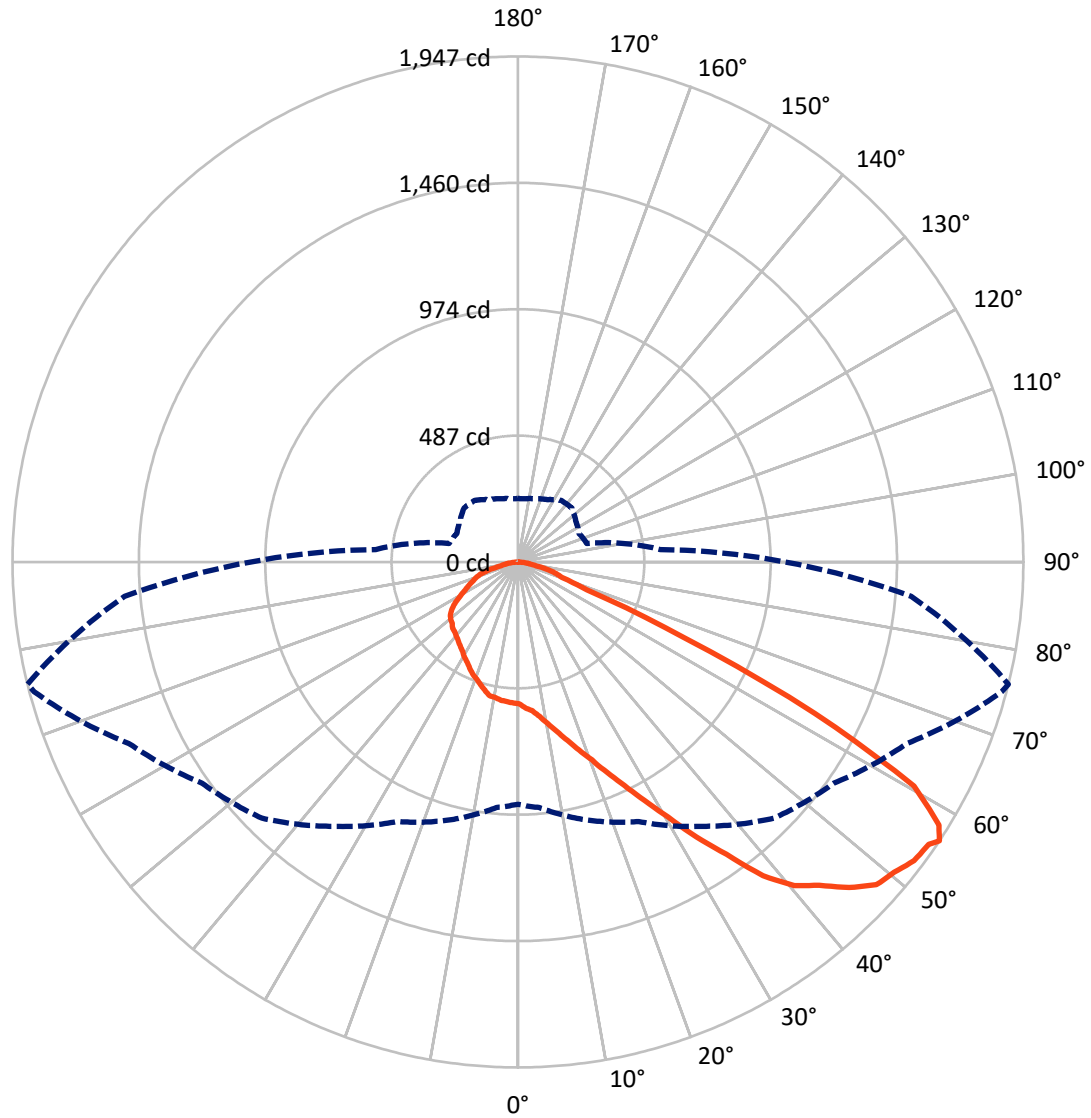
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	767.1	0.0	767.1
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	2085.9	0.0	2085.9
	% Fixture	73.1	0.0	73.1
Total	Lumens	2853.0	0.0	2853.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.1	1.9
10°-20°	170.1	6.0
20°-30°	297.4	10.4
30°-40°	465.7	16.3
40°-50°	677.4	23.7
50°-60°	744.5	26.1
60°-70°	332.3	11.6
70°-80°	96.0	3.4
80°-90°	15.6	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°	2853.0	100.0
0°-180°	2853.0	100.0

Coefficient of Utilization



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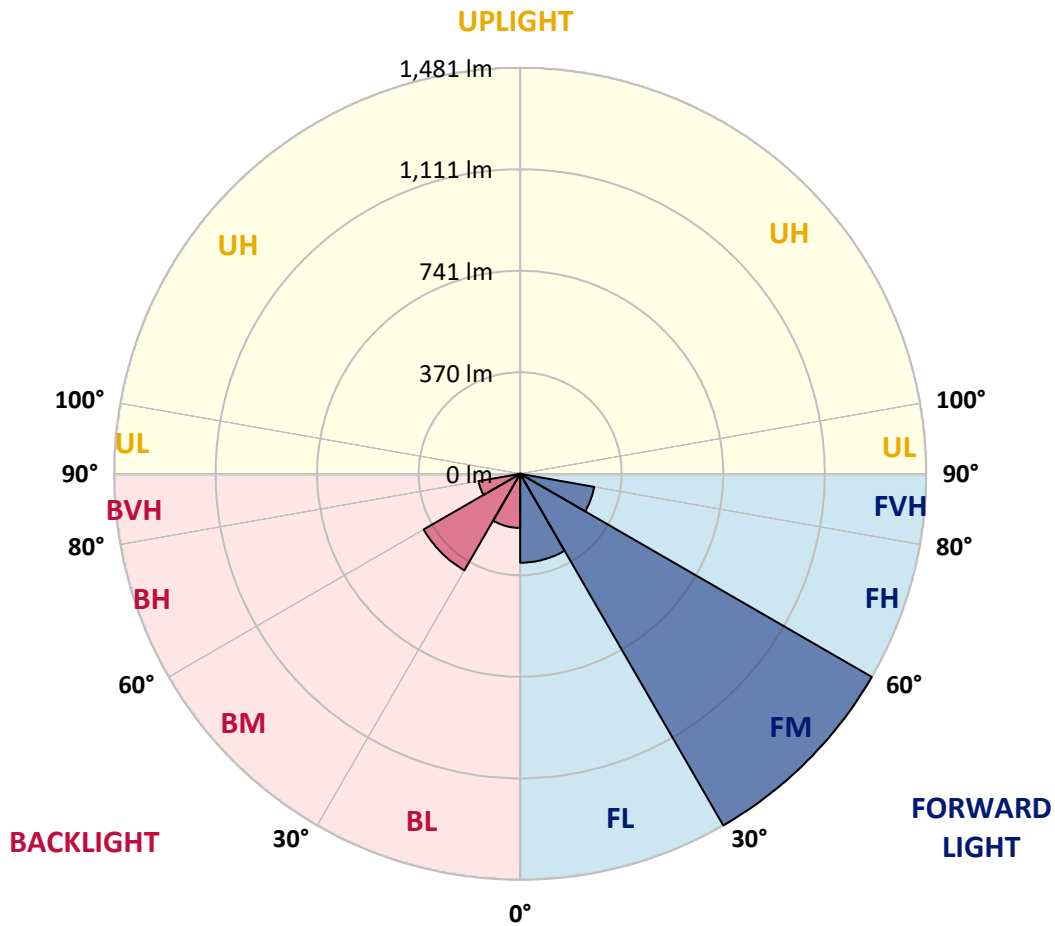
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	324.2	11.4			
FM (30°-60°)	1481.0	51.9			
FH (60°-80°)	274.0	9.6			G0/660
FVH (80°-90°)	6.7	0.2			G0/10
BL (0°-30°)	197.4	6.9	B1/500		
BM (30°-60°)	406.5	14.2	B1/1000		
BH (60°-80°)	154.3	5.4	B1/500		G1/500
BVH (80°-90°)	8.9	0.3			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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	545.9	545.9	545.9	545.9	545.9	545.9	545.9	545.9	545.9	545.9	545.9
2.5°	601.4	591.7	591.0	588.4	589.9	583.2	576.2	567.0	557.3	563.3	549.2
5°	643.5	630.6	635.8	626.9	628.0	619.1	604.7	594.0	582.1	575.1	565.1
7.5°	658.3	659.4	663.1	661.6	654.2	654.2	644.6	625.8	605.1	601.0	584.3
10°	678.3	678.7	674.6	675.7	686.1	681.2	672.7	664.6	638.0	633.2	603.6
12.5°	685.3	678.7	685.3	691.2	703.4	710.1	708.2	702.3	673.8	670.5	627.2
15°	686.4	682.4	687.9	701.2	711.9	740.1	754.1	750.0	712.3	712.7	653.9
17.5°	681.2	686.8	689.0	700.5	725.3	751.5	792.2	797.7	766.7	761.9	687.5
20°	688.3	684.2	687.2	697.5	730.4	771.5	824.7	861.4	817.7	814.4	722.3
22.5°	715.3	709.7	709.0	715.6	739.3	781.8	859.1	925.0	879.9	881.7	765.6
25°	736.4	739.3	736.7	736.4	751.1	797.4	904.6	1000.8	964.2	953.4	816.6
27.5°	772.6	779.6	774.4	781.5	778.1	820.7	937.2	1084.7	1055.2	1040.7	862.8
30°	822.9	826.6	821.8	821.8	811.8	853.2	966.8	1172.4	1160.2	1140.6	917.2
32.5°	889.1	894.6	885.0	879.5	878.0	901.7	1020.0	1258.9	1279.6	1263.0	989.3
35°	976.7	973.4	962.0	956.8	936.8	976.0	1099.2	1358.4	1412.8	1383.2	1076.6
37.5°	1054.0	1048.9	1048.1	1019.3	1024.1	1056.3	1166.5	1433.9	1541.9	1533.4	1168.7
40°	1126.2	1131.0	1138.7	1122.5	1115.1	1150.6	1244.9	1491.6	1642.1	1638.8	1239.7
42.5°	1203.5	1199.0	1212.7	1199.0	1187.9	1238.2	1329.9	1531.5	1730.1	1702.7	1314.0
45°	1315.5	1301.5	1306.3	1307.4	1299.3	1317.7	1365.1	1560.4	1791.9	1788.9	1368.4
47.5°	1409.1	1409.5	1401.3	1395.0	1370.3	1388.8	1404.3	1578.5	1862.9	1858.1	1389.5
50°	1443.9	1439.1	1462.7	1476.4	1477.9	1440.2	1435.0	1588.5	1900.2	1879.2	1410.6
52.5°	1318.9	1323.3	1360.6	1442.0	1489.0	1493.0	1470.9	1609.2	1915.4	1911.0	1427.6
55°	1061.4	1082.9	1144.3	1238.2	1349.5	1472.0	1509.7	1630.6	1923.5	1919.8	1503.0
56°	933.1	949.8	1029.6	1103.2	1243.0	1395.4	1485.3	1653.6	1929.8	1947.2	1520.8
57.5°	751.1	770.4	827.7	911.3	1076.2	1249.7	1418.0	1625.5	1905.4	1912.1	1533.7
60°	469.7	471.5	540.3	595.4	711.6	881.0	1082.2	1414.3	1763.4	1753.8	1377.7
62.5°	308.1	308.4	371.0	416.1	469.0	507.8	636.9	937.9	1301.1	1284.1	980.8
65°	216.4	221.2	269.6	329.9	351.3	331.0	326.9	494.5	726.7	702.3	527.0
67.5°	158.3	158.7	201.6	266.3	297.4	251.9	204.5	241.5	287.7	287.0	244.1
70°	104.7	109.1	142.0	199.0	234.5	202.3	167.2	172.7	183.1	183.1	181.6
72.5°	61.0	65.1	86.9	126.1	131.7	126.5	132.4	147.9	154.6	154.2	152.4
75°	34.8	36.6	41.4	52.5	65.5	77.3	97.3	112.1	118.7	122.8	118.0
77.5°	20.3	21.5	24.4	30.0	34.0	41.8	52.9	63.2	72.1	71.0	71.7
80°	10.7	10.7	13.7	17.8	23.7	29.6	35.1	41.1	45.9	47.0	48.1
82.5°	6.3	6.7	8.9	12.9	17.0	21.1	27.0	31.1	35.5	35.9	36.6
85°	3.3	3.7	5.5	8.5	11.5	12.9	13.3	12.6	13.7	12.9	14.8
87.5°	1.1	1.1	1.8	1.5	1.5	1.8	2.2	2.2	3.0	3.0	3.0
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°	545.9	545.9	545.9	545.9	545.9	545.9	545.9	545.9	545.9	545.9	545.9
2.5°	548.8	548.8	542.6	530.7	528.9	524.1	519.6	519.3	515.9	513.0	511.5
5°	559.2	547.7	538.5	527.8	515.2	509.3	502.6	495.2	492.3	495.2	494.8
7.5°	571.0	561.4	533.7	513.7	499.3	493.4	486.0	478.2	478.9	478.9	473.8
10°	582.5	569.6	525.2	499.7	478.6	474.1	470.1	473.0	476.7	477.5	474.1
12.5°	601.7	572.5	521.1	485.6	472.3	462.7	465.3	473.4	481.2	478.9	481.5
15°	616.2	575.1	502.6	471.2	454.5	459.0	468.2	473.8	486.7	485.2	487.8
17.5°	630.2	576.6	484.5	451.9	444.9	457.1	464.2	480.1	484.1	493.0	496.3
20°	659.1	579.5	466.0	440.1	437.9	451.9	464.2	471.5	480.4	488.2	488.2
22.5°	673.8	578.1	453.8	424.6	431.6	440.5	451.6	464.2	464.2	471.5	471.9
25°	692.3	572.1	434.6	417.2	422.4	430.9	443.4	439.0	443.8	443.8	449.7
27.5°	713.4	559.6	417.9	403.9	414.2	423.5	425.3	422.4	416.8	416.1	413.9
30°	730.4	544.0	405.7	399.4	407.9	413.1	407.2	400.9	391.3	390.6	385.4
32.5°	753.7	524.8	390.6	388.3	397.9	398.3	396.5	386.9	372.8	366.9	361.0
35°	792.9	513.7	379.1	382.4	385.4	384.3	380.9	370.6	356.5	353.9	351.7
37.5°	821.8	505.6	367.3	371.3	373.9	375.4	365.4	353.9	354.3	349.1	347.7
40°	854.3	500.4	357.6	359.5	359.9	364.7	352.5	346.9	349.5	346.2	348.4
42.5°	896.1	501.9	347.7	346.2	353.2	351.3	345.4	338.0	339.5	329.5	331.0
45°	918.3	511.9	341.7	335.1	342.8	342.5	334.7	327.7	318.8	299.6	300.3
47.5°	933.1	514.4	327.7	323.2	331.4	336.2	327.3	311.0	298.5	284.8	281.4
50°	948.3	519.3	321.0	311.8	315.1	326.6	315.5	299.9	287.7	275.5	277.4
52.5°	961.6	528.5	308.1	294.4	300.3	312.9	307.0	288.1	274.8	264.8	261.8
55°	1020.8	549.2	286.3	268.5	282.6	298.5	295.1	272.2	257.8	252.6	251.9
56°	1030.0	550.0	274.8	259.6	272.6	293.7	289.6	265.2	252.2	244.1	244.5
57.5°	1031.5	541.1	258.5	251.5	262.6	286.6	281.4	259.6	241.9	234.5	232.3
60°	907.6	422.4	238.2	233.7	246.7	265.2	263.3	244.5	224.5	216.0	220.1
62.5°	618.7	309.6	222.3	221.5	228.2	246.3	241.5	224.5	207.9	202.3	199.7
65°	360.2	234.8	206.7	203.8	209.3	218.9	222.3	204.5	187.1	183.4	182.3
67.5°	212.7	194.2	186.8	182.0	180.1	186.0	188.6	178.3	160.9	155.7	160.1
70°	177.9	172.7	173.1	164.9	160.5	156.4	154.2	145.0	130.6	123.9	122.0
72.5°	153.5	151.3	149.8	142.4	138.3	129.1	119.5	110.2	99.5	93.9	94.3
75°	117.2	116.5	117.2	113.5	106.5	99.1	90.2	78.4	70.3	63.2	64.7
77.5°	69.9	72.1	73.2	71.7	68.8	62.1	56.6	48.8	41.1	35.5	34.8
80°	48.1	49.9	51.8	49.9	47.0	42.2	36.2	30.3	24.8	21.8	21.1
82.5°	36.6	38.5	39.6	37.7	34.0	28.8	24.8	20.7	16.3	13.3	12.6
85°	13.3	15.2	14.8	17.8	19.2	18.5	15.9	12.2	9.2	6.7	6.3
87.5°	3.7	3.3	3.7	3.7	3.7	3.3	3.0	3.0	3.0	1.8	1.5
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)