

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: P526058

Luminaire Tested: **GALN-SA1A-727-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526058
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-SA1A-727-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 615mA 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: 3401 lumens
Efficiency: N/A
Efficacy: 103.1 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

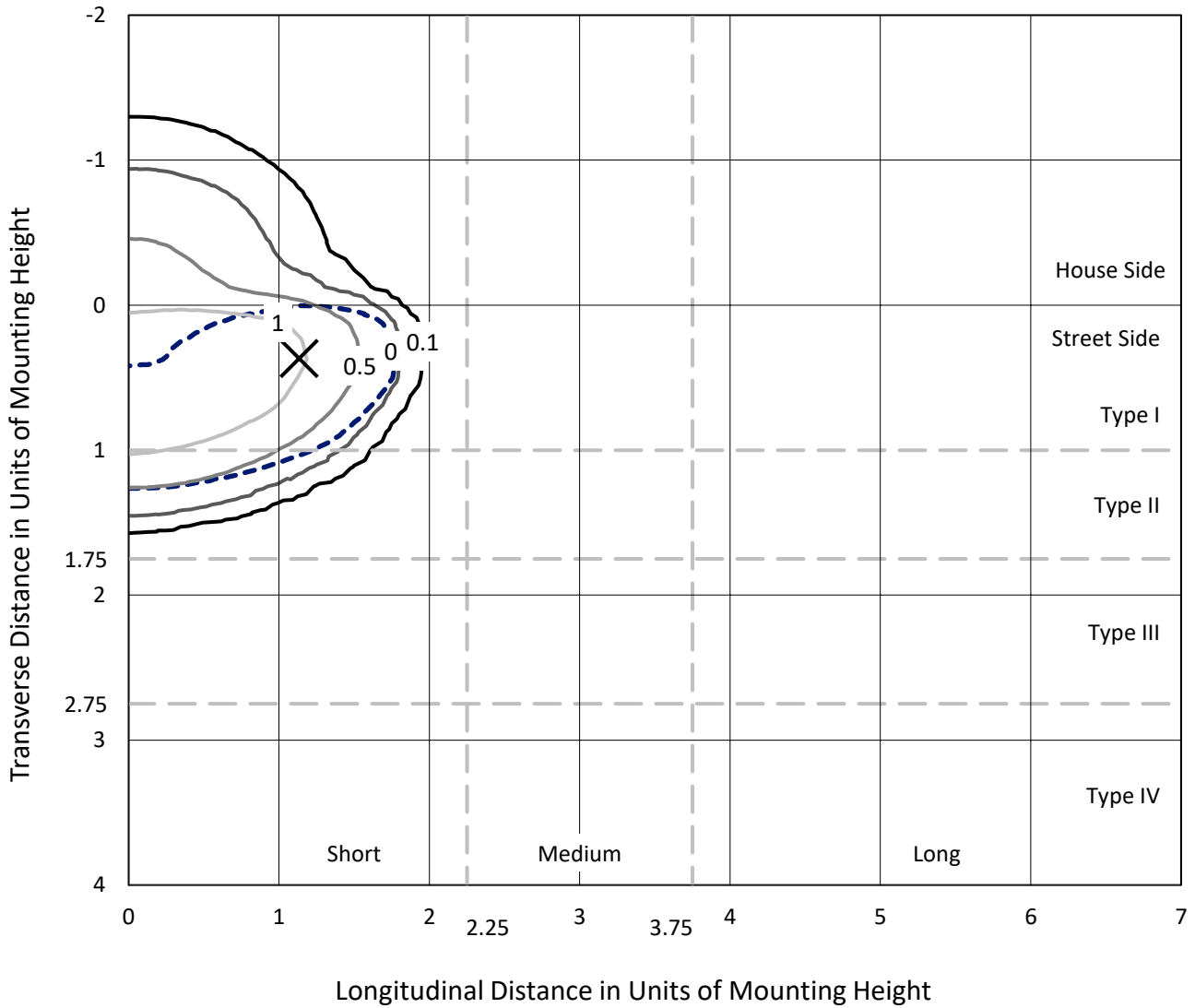
Input Watts (W): 33
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

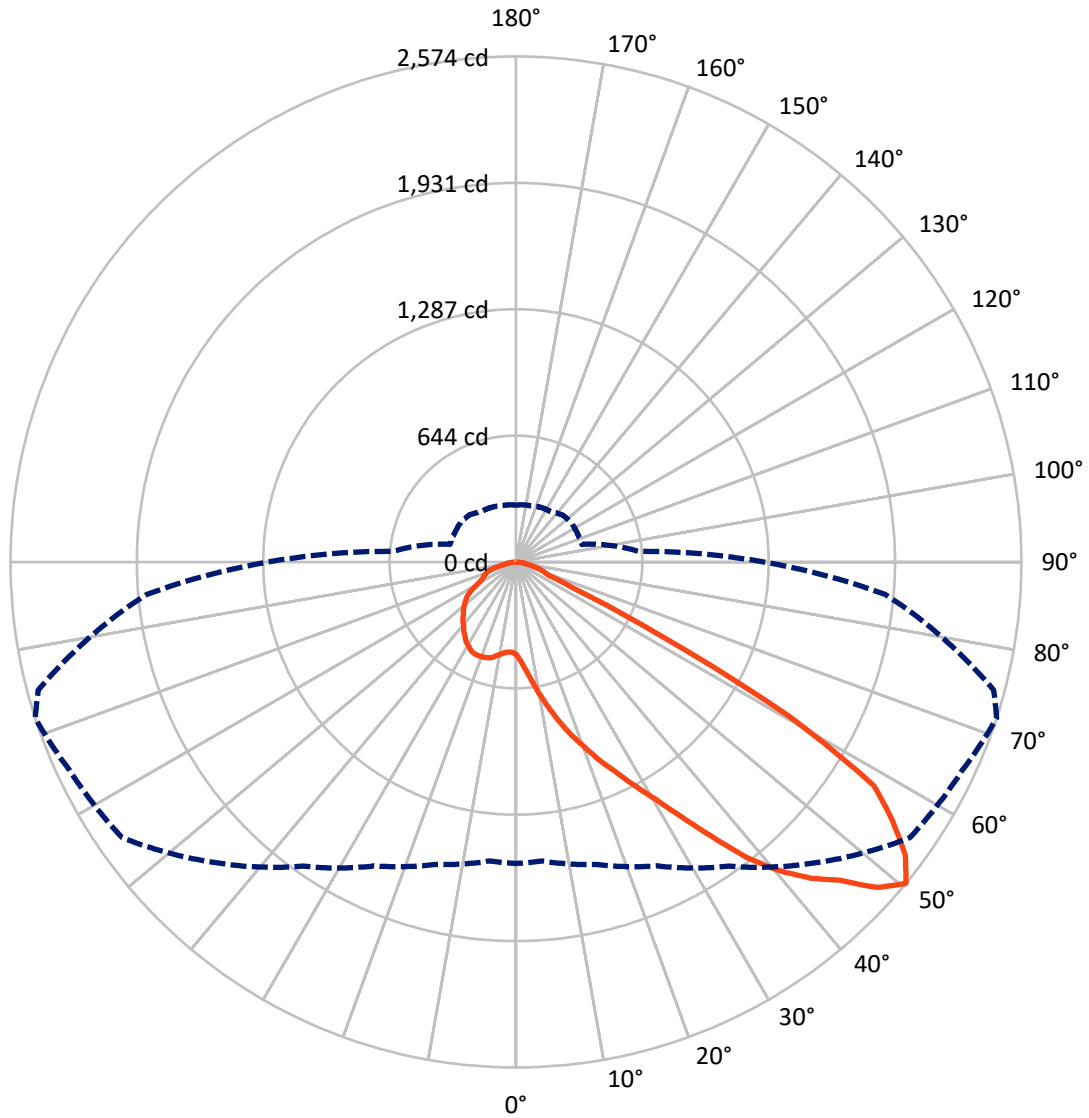
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 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	779.2	0.0	779.2
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	2621.8	0.0	2621.8
	% Fixture	77.1	0.0	77.1
Total	Lumens	3401.0	0.0	3401.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.7	1.6
10°-20°	208.2	6.1
20°-30°	403.7	11.9
30°-40°	668.7	19.7
40°-50°	935.7	27.5
50°-60°	789.4	23.2
60°-70°	240.6	7.1
70°-80°	84.4	2.5
80°-90°	14.7	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°	3401.0	100.0
0°-180°	3401.0	100.0

Coefficient of Utilization

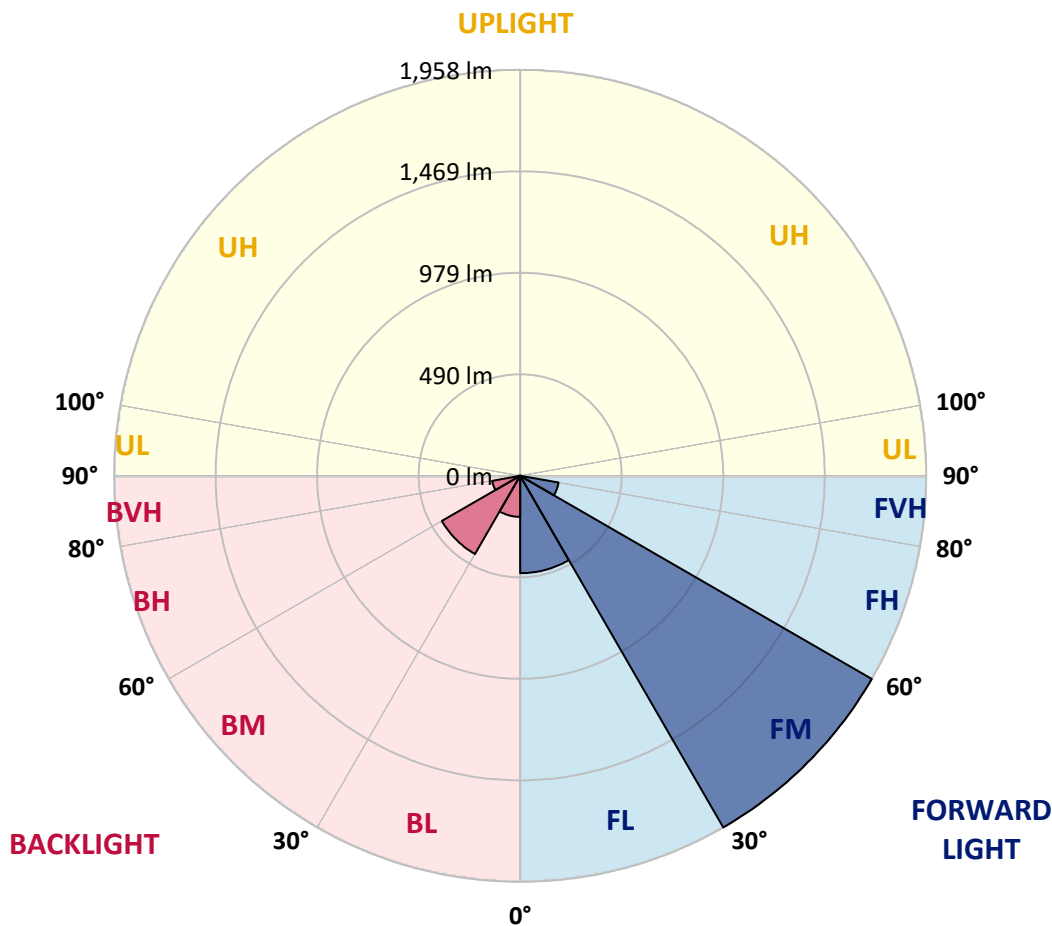


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	469.5	13.8			
FM (30°-60°)	1958.0	57.6			
FH (60°-80°)	187.7	5.5			G0/660
FVH (80°-90°)	6.6	0.2			G0/10
BL (0°-30°)	198.1	5.8	B1/500		
BM (30°-60°)	435.7	12.8	B1/1000		
BH (60°-80°)	137.3	4.0	B1/500		G1/500
BVH (80°-90°)	8.1	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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	473.4	473.4	473.4	473.4	473.4	473.4	473.4	473.4	473.4	473.4	473.4
2.5°	609.0	605.2	593.8	590.0	576.6	552.1	543.7	518.9	508.4	498.7	487.3
5°	770.1	752.5	751.2	729.7	698.6	680.5	626.6	590.4	557.2	540.4	509.2
7.5°	872.8	873.2	873.2	855.6	830.7	784.9	736.5	671.2	621.2	596.3	543.3
10°	970.5	962.0	957.4	955.7	938.9	894.3	842.5	761.7	693.1	664.1	569.0
12.5°	1039.5	1032.3	1042.8	1037.4	1025.2	996.1	947.3	855.2	769.3	730.2	610.2
15°	1072.3	1077.4	1085.8	1100.9	1095.5	1084.5	1030.6	951.1	851.4	807.2	646.8
17.5°	1122.8	1108.9	1119.0	1138.0	1153.1	1148.1	1117.3	1020.5	932.6	878.3	696.1
20°	1158.2	1150.2	1155.2	1177.1	1188.5	1217.1	1201.1	1111.4	1010.4	953.2	754.2
22.5°	1259.2	1247.4	1231.0	1234.3	1238.5	1258.7	1262.5	1211.2	1100.9	1040.3	809.3
25°	1383.7	1372.8	1353.4	1333.7	1321.4	1317.7	1330.7	1289.5	1187.6	1124.9	868.6
27.5°	1520.9	1502.4	1490.2	1449.4	1416.6	1411.5	1405.2	1382.9	1290.3	1222.5	935.5
30°	1654.3	1639.6	1623.2	1558.0	1523.9	1518.4	1487.3	1493.6	1401.8	1326.5	1011.3
32.5°	1755.3	1756.6	1719.1	1669.9	1637.9	1608.9	1597.5	1615.6	1544.9	1484.3	1095.9
35°	1837.0	1840.8	1805.0	1760.4	1725.9	1746.1	1741.0	1749.4	1715.8	1641.7	1194.4
37.5°	1916.5	1897.6	1859.3	1837.8	1819.7	1853.0	1895.9	1903.1	1909.4	1822.2	1308.8
40°	1929.6	1931.2	1908.9	1924.1	1901.4	1951.4	2051.2	2041.9	2067.6	1991.4	1433.0
42.5°	1911.0	1914.8	1923.7	1945.1	1999.8	2060.0	2208.2	2170.3	2201.4	2133.7	1553.8
45°	1880.7	1865.2	1876.1	1957.8	2052.5	2186.3	2351.7	2322.2	2312.1	2255.3	1697.7
47.5°	1736.0	1752.0	1786.1	1886.6	2028.9	2208.2	2453.5	2446.8	2477.1	2437.1	1828.6
50°	1535.2	1528.9	1594.6	1707.8	1891.3	2165.2	2448.0	2509.1	2574.3	2518.7	1887.1
52.5°	1149.7	1183.4	1239.8	1380.4	1642.1	1931.2	2328.5	2430.4	2483.4	2471.6	1839.9
55°	726.8	736.9	771.0	938.1	1173.7	1550.0	1996.1	2232.2	2326.8	2371.0	1796.6
57.5°	353.1	334.1	375.8	510.1	678.0	1042.4	1539.4	1944.3	2150.1	2230.0	1702.3
60°	184.3	191.5	207.9	255.9	350.6	541.2	959.5	1295.8	1610.1	1733.0	1290.3
62.5°	152.8	155.3	166.2	190.2	233.1	311.4	489.9	631.7	821.1	931.7	733.9
65°	129.6	130.9	142.7	158.7	186.0	219.3	252.1	263.9	319.4	327.8	260.9
67.5°	108.2	109.4	122.0	137.2	154.9	163.7	172.1	171.3	177.6	175.1	174.6
70°	83.3	84.6	97.6	113.6	122.5	117.4	143.5	149.4	151.9	154.0	157.4
72.5°	60.2	62.7	72.8	84.2	79.5	91.3	118.3	127.1	130.5	131.7	135.9
75°	43.8	44.6	47.1	43.8	50.5	63.5	83.3	94.3	98.5	99.7	106.1
77.5°	19.4	19.8	20.2	25.3	32.4	39.6	49.7	58.5	64.4	66.1	67.8
80°	10.1	10.5	13.0	17.3	23.1	29.0	36.2	41.2	45.0	45.5	47.1
82.5°	6.3	6.7	9.3	12.2	16.4	21.5	26.5	30.7	33.7	34.1	34.5
85°	2.9	3.8	5.5	7.6	10.9	13.9	14.3	12.2	13.0	13.5	12.6
87.5°	0.8	1.3	1.7	1.3	1.7	1.7	2.1	2.5	2.5	2.5	2.9
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°	473.4	473.4	473.4	473.4	473.4	473.4	473.4	473.4	473.4	473.4	473.4
2.5°	481.0	477.2	462.5	457.0	442.7	445.3	437.7	437.3	435.6	435.2	434.7
5°	492.8	481.0	463.3	449.9	441.9	441.0	435.6	435.6	437.3	438.5	435.6
7.5°	512.2	498.7	468.8	456.2	449.0	447.8	444.0	441.0	444.8	443.6	440.2
10°	534.5	510.9	479.3	468.4	456.6	453.7	453.7	454.9	448.6	450.7	447.4
12.5°	559.3	527.7	492.8	480.2	466.3	464.6	463.8	454.5	457.9	456.2	447.8
15°	590.9	547.1	510.1	488.6	476.8	469.2	458.3	456.6	454.5	450.3	446.5
17.5°	625.0	568.1	518.1	491.1	473.4	468.0	459.6	450.7	444.4	445.3	442.3
20°	654.0	587.5	521.0	493.6	470.9	460.4	447.4	441.9	435.2	434.7	434.3
22.5°	688.5	613.6	525.2	486.9	463.3	452.4	443.6	433.9	429.3	423.4	426.3
25°	729.7	623.7	526.1	483.1	457.9	438.5	433.9	423.4	421.7	413.3	415.0
27.5°	759.6	629.2	519.3	471.3	445.3	430.5	422.1	414.5	411.6	405.3	403.6
30°	799.6	637.6	505.0	456.6	432.6	416.2	411.2	409.5	401.1	394.3	393.5
32.5°	845.1	643.0	495.8	441.5	419.6	407.0	409.5	401.5	391.0	385.1	383.4
35°	881.2	645.2	472.6	424.2	410.7	402.7	399.8	398.1	383.0	377.5	373.3
37.5°	936.4	640.5	453.2	412.0	401.1	398.1	395.6	384.2	367.0	359.0	353.1
40°	1000.8	639.3	428.4	394.8	391.8	395.2	387.6	369.9	345.9	337.1	332.9
42.5°	1062.6	648.1	412.8	385.5	381.7	383.0	372.4	345.9	334.1	329.1	322.4
45°	1166.2	666.6	387.2	371.2	369.5	368.7	356.0	328.3	321.5	315.2	313.9
47.5°	1259.6	654.4	370.8	356.5	358.1	353.5	326.6	317.7	310.2	303.8	301.7
50°	1265.1	625.4	347.6	345.1	345.5	337.5	311.8	306.0	296.3	292.1	289.1
52.5°	1236.4	577.8	326.2	327.0	328.3	315.2	293.7	289.5	281.5	275.7	274.0
55°	1156.1	503.7	305.1	308.5	311.8	287.0	280.3	269.8	263.4	255.0	255.5
57.5°	1018.4	405.7	275.7	281.1	288.3	260.9	255.9	242.8	233.6	226.8	226.0
60°	682.6	288.7	231.5	233.6	249.6	238.6	238.2	225.2	212.5	206.6	203.3
62.5°	402.7	220.5	199.9	197.8	197.4	203.7	214.2	209.6	193.2	181.8	185.2
65°	210.8	190.6	186.0	178.9	174.6	173.0	181.0	183.1	172.1	159.9	159.1
67.5°	177.2	177.2	173.4	170.9	165.0	157.8	152.8	146.0	144.3	141.0	136.8
70°	161.2	165.4	164.1	158.2	153.2	145.2	132.1	121.2	110.7	106.9	109.4
72.5°	140.6	144.8	144.8	141.8	135.1	122.9	110.3	97.6	88.8	82.1	81.2
75°	108.2	110.3	115.3	111.9	103.1	95.5	82.5	69.4	61.0	54.7	53.4
77.5°	69.0	72.4	72.4	72.0	65.7	58.5	50.1	40.8	34.5	29.9	28.6
80°	45.9	48.0	49.7	48.0	43.8	38.3	32.0	25.7	21.0	17.3	16.4
82.5°	33.7	36.2	37.5	35.8	31.6	27.4	22.7	18.1	13.5	10.5	9.7
85°	13.0	13.5	15.2	18.1	17.7	17.3	13.9	10.1	7.6	5.5	5.1
87.5°	3.4	2.9	3.4	3.4	2.9	2.5	2.5	2.5	2.5	1.3	1.7
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)