

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: P526292

Luminaire Tested: **GALN-SA1B-727-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526292
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-SA1B-727-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 800mA 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: 4231 lumens
Efficiency: N/A
Efficacy: 96.2 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

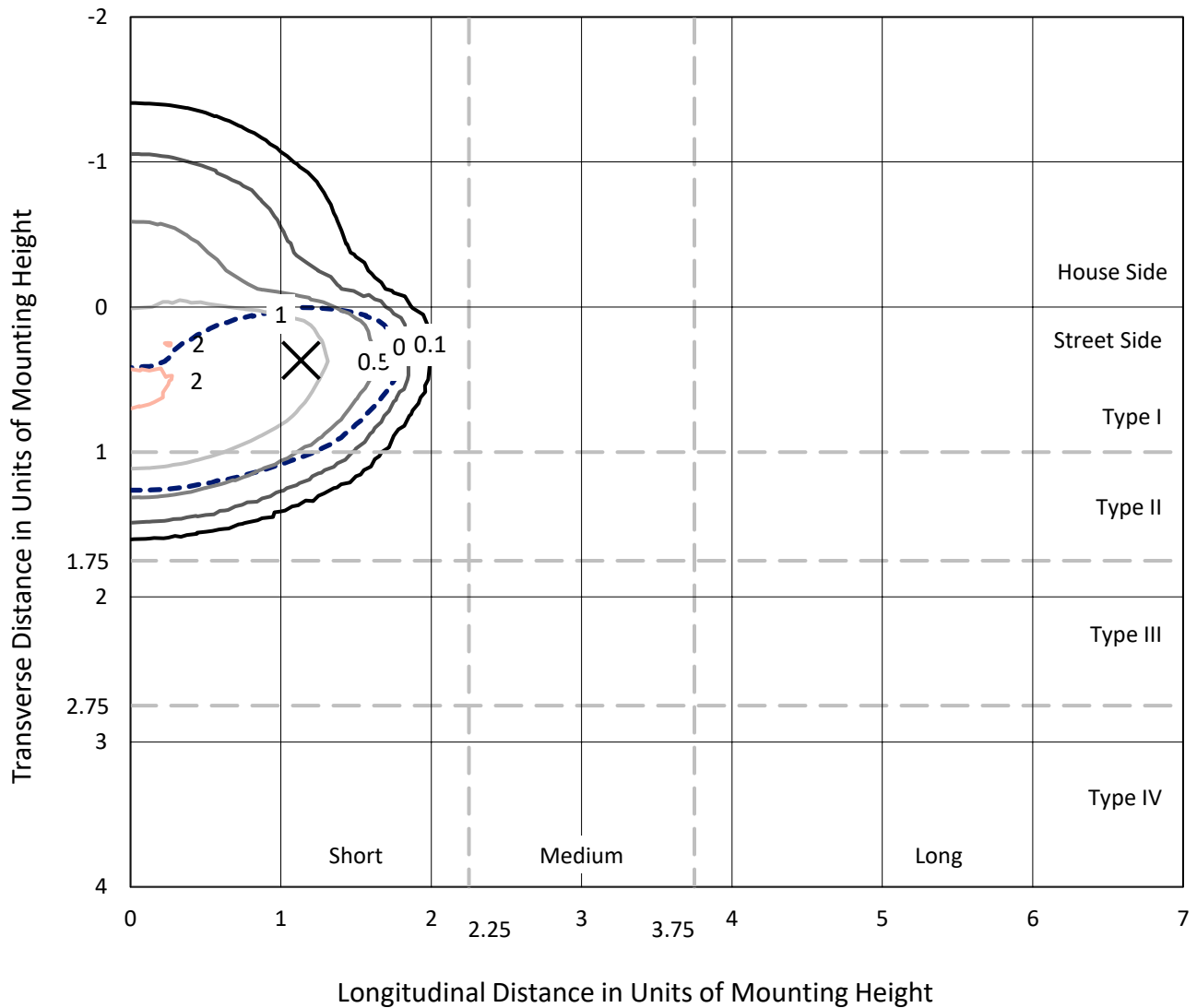
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

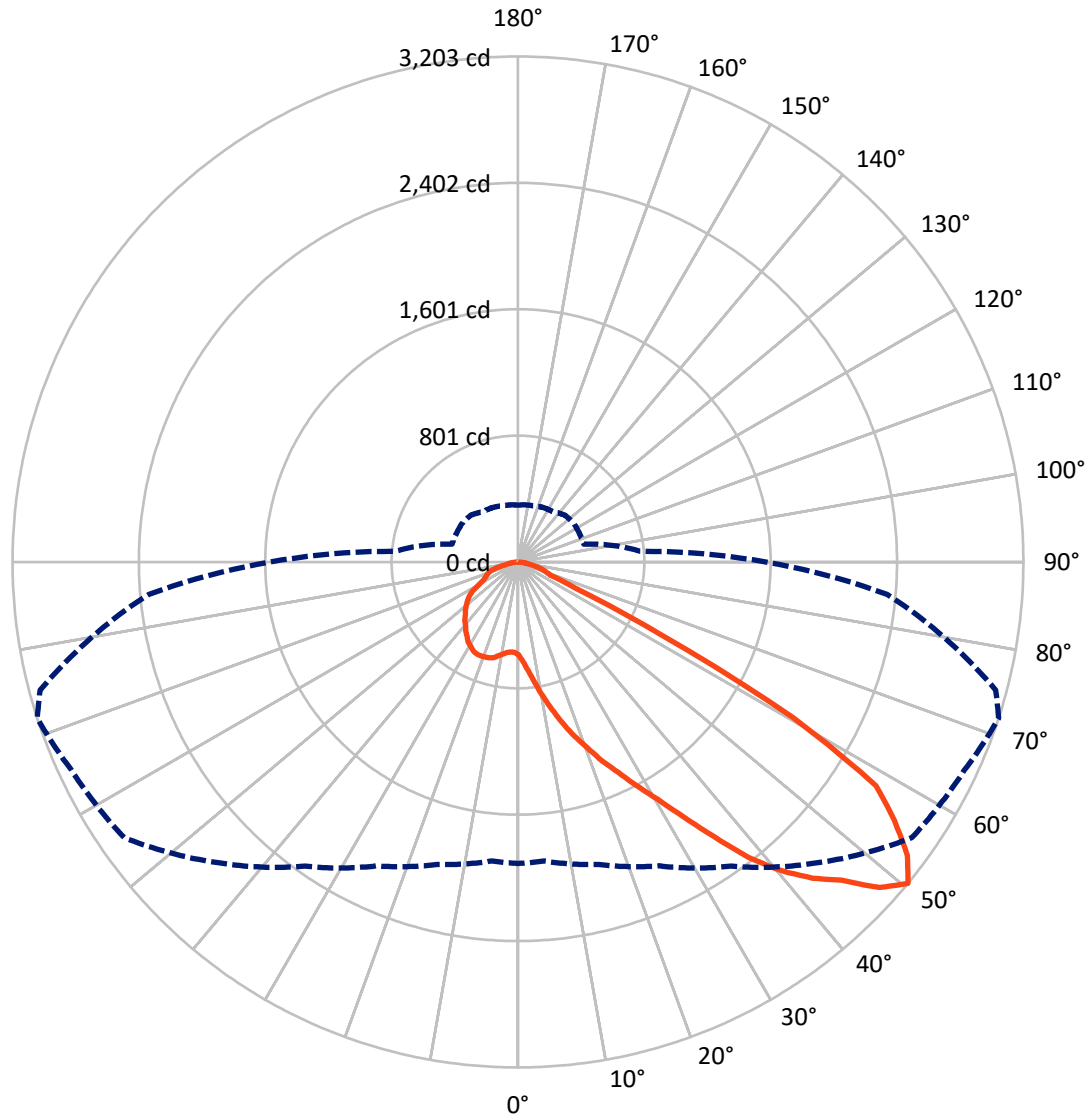
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 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	969.4	0.0	969.4
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	3261.7	0.0	3261.7
	% Fixture	77.1	0.0	77.1
Total	Lumens	4231.0	0.0	4231.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.3	1.6
10°-20°	259.0	6.1
20°-30°	502.2	11.9
30°-40°	831.9	19.7
40°-50°	1164.0	27.5
50°-60°	982.0	23.2
60°-70°	299.3	7.1
70°-80°	105.0	2.5
80°-90°	18.3	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°	4231.0	100.0
0°-180°	4231.0	100.0

Coefficient of Utilization



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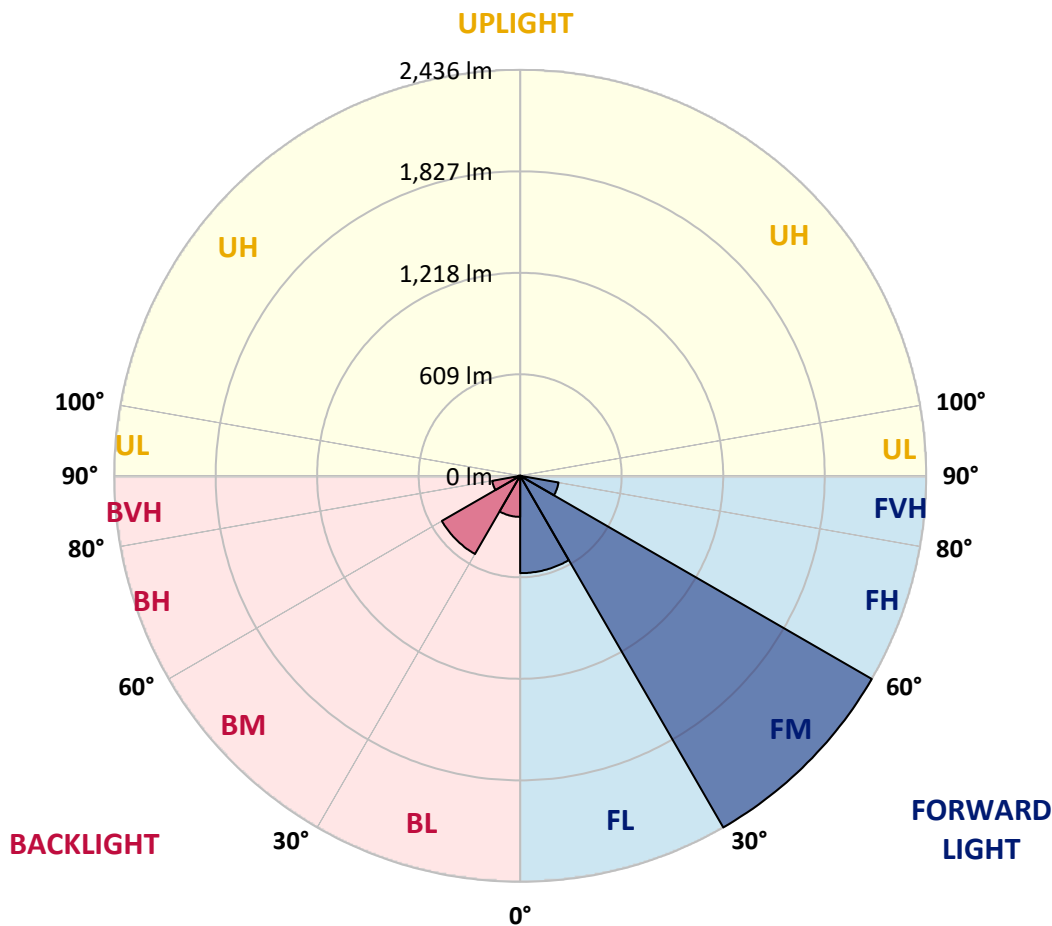
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	584.0	13.8			
FM (30°-60°)	2435.9	57.6			
FH (60°-80°)	233.5	5.5			G0/660
FVH (80°-90°)	8.2	0.2			G0/10
BL (0°-30°)	246.4	5.8	B1/500		
BM (30°-60°)	542.1	12.8	B1/1000		
BH (60°-80°)	170.8	4.0	B1/500		G1/500
BVH (80°-90°)	10.1	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°	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0
2.5°	757.6	752.9	738.7	734.0	717.3	686.9	676.4	645.5	632.4	620.4	606.3
5°	958.1	936.1	934.5	907.8	869.1	846.6	779.6	734.5	693.2	672.2	633.5
7.5°	1085.8	1086.4	1086.4	1064.4	1033.5	976.4	916.2	835.1	772.8	741.9	675.9
10°	1207.3	1196.8	1191.1	1189.0	1168.0	1112.5	1048.1	947.6	862.3	826.2	707.8
12.5°	1293.2	1284.3	1297.4	1290.5	1275.4	1239.2	1178.5	1063.8	957.0	908.4	759.1
15°	1334.0	1340.3	1350.8	1369.6	1362.8	1349.2	1282.2	1183.2	1059.1	1004.2	804.7
17.5°	1396.8	1379.5	1392.1	1415.7	1434.5	1428.2	1390.0	1269.6	1160.2	1092.6	865.9
20°	1440.8	1430.9	1437.1	1464.4	1478.5	1514.1	1494.2	1382.7	1257.0	1185.8	938.2
22.5°	1566.5	1551.8	1531.4	1535.6	1540.8	1565.9	1570.6	1506.8	1369.6	1294.2	1006.8
25°	1721.4	1707.8	1683.7	1659.1	1643.9	1639.2	1655.5	1604.2	1477.5	1399.4	1080.6
27.5°	1892.1	1869.1	1853.9	1803.1	1762.3	1756.0	1748.1	1720.4	1605.2	1520.9	1163.8
30°	2058.1	2039.7	2019.3	1938.2	1895.8	1889.0	1850.2	1858.1	1743.9	1650.2	1258.1
32.5°	2183.7	2185.3	2138.7	2077.4	2037.6	2001.5	1987.4	2009.9	1921.9	1846.6	1363.3
35°	2285.3	2290.0	2245.5	2190.0	2147.1	2172.2	2165.9	2176.4	2134.5	2042.4	1485.8
37.5°	2384.2	2360.7	2313.0	2286.3	2263.8	2305.2	2358.6	2367.5	2375.3	2267.0	1628.2
40°	2400.5	2402.6	2374.8	2393.7	2365.4	2427.7	2551.8	2540.3	2572.2	2477.4	1782.7
42.5°	2377.4	2382.1	2393.1	2419.8	2487.9	2562.8	2747.1	2699.9	2738.7	2654.4	1932.9
45°	2339.7	2320.4	2334.0	2435.5	2553.3	2719.8	2925.6	2888.9	2876.4	2805.7	2112.0
47.5°	2159.6	2179.5	2221.9	2347.1	2524.0	2747.1	3052.3	3043.9	3081.6	3031.9	2274.8
50°	1909.9	1902.0	1983.7	2124.6	2352.8	2693.7	3045.5	3121.4	3202.5	3133.4	2347.6
52.5°	1430.3	1472.2	1542.4	1717.2	2042.9	2402.6	2896.8	3023.5	3089.5	3074.8	2289.0
55°	904.2	916.7	959.1	1167.0	1460.2	1928.2	2483.2	2776.9	2894.7	2949.7	2235.0
57.5°	439.3	415.7	467.5	634.5	843.4	1296.8	1915.1	2418.8	2674.8	2774.3	2117.8
60°	229.3	238.2	258.6	318.3	436.1	673.3	1193.7	1612.0	2003.1	2156.0	1605.2
62.5°	190.0	193.2	206.8	236.6	290.0	387.4	609.4	785.8	1021.4	1159.1	913.1
65°	161.3	162.8	177.5	197.4	231.4	272.8	313.6	328.3	397.4	407.8	324.6
67.5°	134.6	136.1	151.8	170.7	192.7	203.7	214.1	213.1	220.9	217.8	217.3
70°	103.7	105.2	121.5	141.4	152.4	146.1	178.5	185.9	189.0	191.6	195.8
72.5°	74.9	78.0	90.6	104.7	99.0	113.6	147.1	158.1	162.3	163.9	169.1
75°	54.4	55.5	58.6	54.4	62.8	79.1	103.7	117.3	122.5	124.1	131.9
77.5°	24.1	24.6	25.1	31.4	40.3	49.2	61.8	72.8	80.1	82.2	84.3
80°	12.6	13.1	16.2	21.5	28.8	36.1	45.0	51.3	56.0	56.5	58.6
82.5°	7.9	8.4	11.5	15.2	20.4	26.7	33.0	38.2	41.9	42.4	42.9
85°	3.7	4.7	6.8	9.4	13.6	17.3	17.8	15.2	16.2	16.8	15.7
87.5°	1.0	1.6	2.1	1.6	2.1	2.1	2.6	3.1	3.1	3.1	3.7
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°	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0
2.5°	598.4	593.7	575.4	568.6	550.8	553.9	544.5	544.0	541.9	541.3	540.8
5°	613.1	598.4	576.4	559.7	549.7	548.7	541.9	541.9	544.0	545.5	541.9
7.5°	637.2	620.4	583.2	567.5	558.6	557.1	552.3	548.7	553.4	551.8	547.6
10°	664.9	635.6	596.3	582.7	568.0	564.4	564.4	566.0	558.1	560.7	556.5
12.5°	695.8	656.5	613.1	597.4	580.1	578.0	576.9	565.4	569.6	567.5	557.1
15°	735.1	680.6	634.5	607.8	593.2	583.8	570.1	568.0	565.4	560.2	555.5
17.5°	777.5	706.8	644.5	611.0	589.0	582.2	571.7	560.7	552.9	553.9	550.2
20°	813.6	730.9	648.2	614.1	585.8	572.8	556.5	549.7	541.3	540.8	540.3
22.5°	856.5	763.3	653.4	605.7	576.4	562.8	551.8	539.8	534.0	526.7	530.4
25°	907.8	775.9	654.4	601.0	569.6	545.5	539.8	526.7	524.6	514.1	516.2
27.5°	945.0	782.7	646.1	586.4	553.9	535.6	525.1	515.7	512.0	504.2	502.1
30°	994.7	793.2	628.3	568.0	538.2	517.8	511.5	509.4	498.9	490.6	489.5
32.5°	1051.3	800.0	616.7	549.2	522.0	506.3	509.4	499.5	486.4	479.0	477.0
35°	1096.3	802.6	587.9	527.7	511.0	501.0	497.4	495.3	476.4	469.6	464.4
37.5°	1164.9	796.8	563.9	512.6	498.9	495.3	492.1	478.0	456.5	446.6	439.3
40°	1245.0	795.3	533.0	491.1	487.4	491.6	482.2	460.2	430.4	419.4	414.1
42.5°	1322.0	806.3	513.6	479.6	474.9	476.4	463.3	430.4	415.7	409.4	401.0
45°	1450.8	829.3	481.7	461.8	459.7	458.6	442.9	408.4	400.0	392.1	390.6
47.5°	1567.0	814.1	461.2	443.4	445.5	439.8	406.3	395.3	385.9	378.0	375.4
50°	1573.8	778.0	432.5	429.3	429.8	419.9	387.9	380.6	368.6	363.3	359.7
52.5°	1538.2	718.8	405.7	406.8	408.4	392.1	365.4	360.2	350.3	342.9	340.8
55°	1438.2	626.7	379.6	383.8	387.9	357.1	348.7	335.6	327.7	317.3	317.8
57.5°	1267.0	504.7	342.9	349.7	358.6	324.6	318.3	302.1	290.6	282.2	281.1
60°	849.2	359.2	288.0	290.6	310.5	296.9	296.3	280.1	264.4	257.1	252.9
62.5°	501.0	274.3	248.7	246.1	245.5	253.4	266.5	260.7	240.3	226.2	230.4
65°	262.3	237.2	231.4	222.5	217.3	215.2	225.1	227.7	214.1	198.9	197.9
67.5°	220.4	220.4	215.7	212.6	205.2	196.3	190.0	181.7	179.6	175.4	170.2
70°	200.5	205.8	204.2	196.9	190.6	180.6	164.4	150.8	137.7	133.0	136.1
72.5°	174.9	180.1	180.1	176.4	168.1	152.9	137.2	121.5	110.5	102.1	101.0
75°	134.6	137.2	143.5	139.3	128.3	118.8	102.6	86.4	75.9	68.1	66.5
77.5°	85.9	90.1	90.1	89.5	81.7	72.8	62.3	50.8	42.9	37.2	35.6
80°	57.1	59.7	61.8	59.7	54.4	47.6	39.8	31.9	26.2	21.5	20.4
82.5°	41.9	45.0	46.6	44.5	39.3	34.0	28.3	22.5	16.8	13.1	12.0
85°	16.2	16.8	18.8	22.5	22.0	21.5	17.3	12.6	9.4	6.8	6.3
87.5°	4.2	3.7	4.2	4.2	3.7	3.1	3.1	3.1	3.1	1.6	2.1
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)