

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: P526204

Luminaire Tested: **GALN-SA1A-827-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526204
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)
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-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE II SPILL LIGHT
ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2883 lumens
Efficiency: N/A
Efficacy: 87.4 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

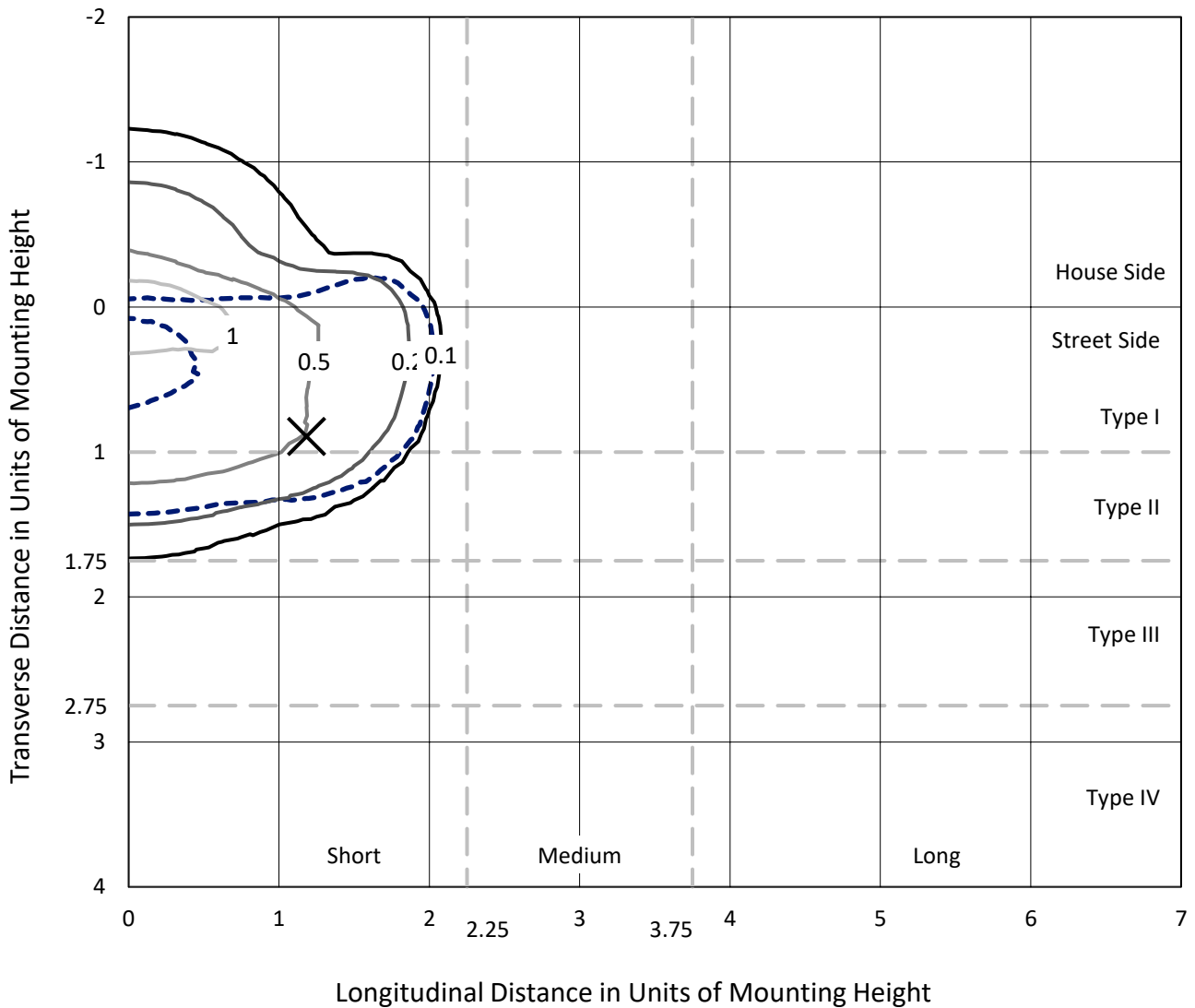
Input Watts (W): 33
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

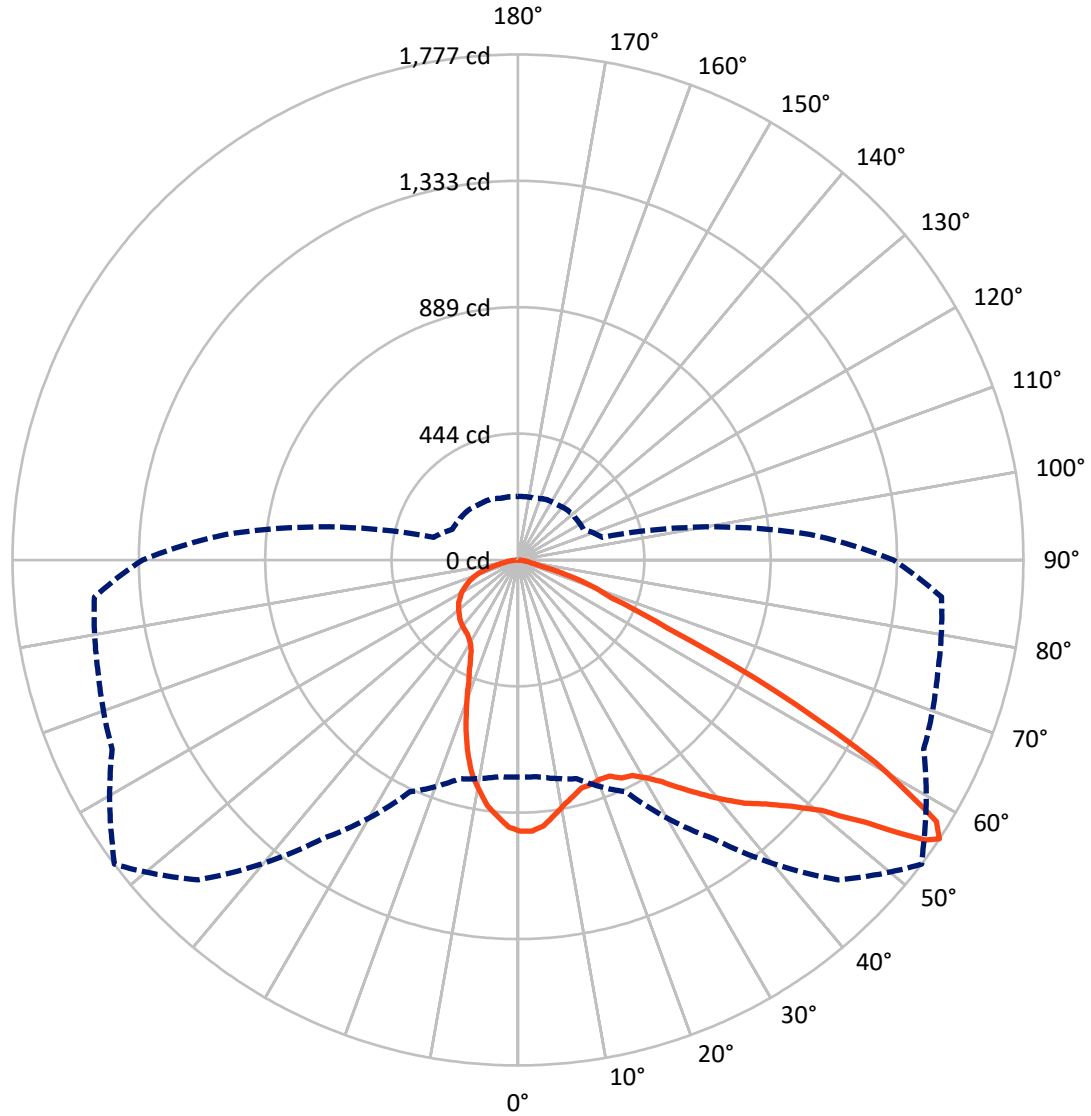
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	841.3	0.0	841.3
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	2041.7	0.0	2041.7
	% Fixture	70.8	0.0	70.8
Total	Lumens	2883.0	0.0	2883.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.4	2.9
10°-20°	210.9	7.3
20°-30°	311.0	10.8
30°-40°	444.3	15.4
40°-50°	611.6	21.2
50°-60°	722.7	25.1
60°-70°	385.2	13.4
70°-80°	97.7	3.4
80°-90°	15.2	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°	2883.0	100.0
0°-180°	2883.0	100.0

Coefficient of Utilization



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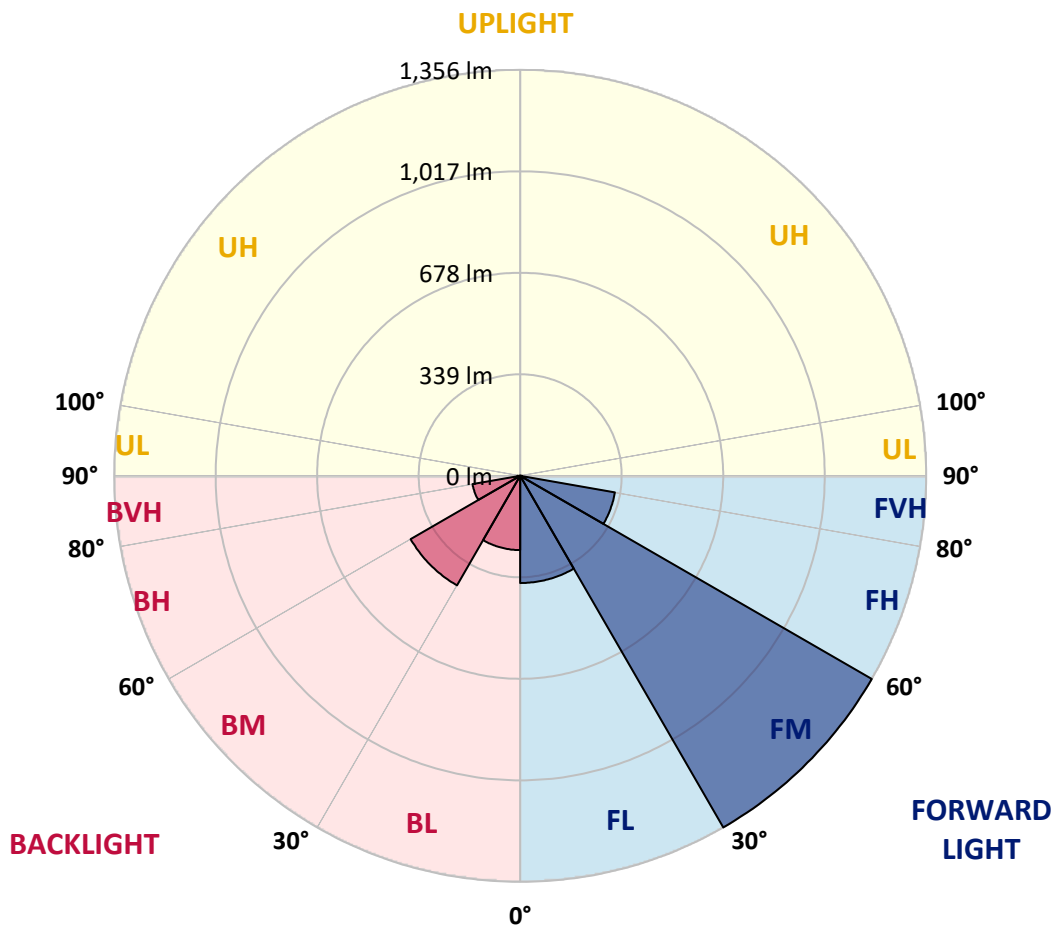
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	358.2	12.4			
FM (30°-60°)	1356.1	47.0			
FH (60°-80°)	321.3	11.1			G0/660
FVH (80°-90°)	6.1	0.2			G0/10
BL (0°-30°)	248.1	8.6	B1/500		
BM (30°-60°)	422.5	14.7	B1/1000		
BH (60°-80°)	161.6	5.6	B1/500		G1/500
BVH (80°-90°)	9.1	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°	53°	55°	65°	75°	85°
0°	953.8	953.8	953.8	953.8	953.8	953.8	953.8	953.8	953.8	953.8	953.8
2.5°	942.0	933.8	938.6	936.8	952.0	956.4	954.2	956.0	964.5	960.5	952.0
5°	880.2	891.7	893.9	899.4	908.3	925.7	939.4	943.1	947.2	966.0	964.2
7.5°	824.0	831.8	827.7	844.0	863.2	891.3	908.0	910.9	948.3	958.6	966.4
10°	788.5	780.7	799.2	803.7	825.5	857.7	877.6	889.8	923.9	964.9	969.7
12.5°	755.6	753.0	764.1	776.7	801.1	834.4	854.7	859.5	912.0	955.3	977.8
15°	731.2	728.2	739.3	748.6	777.0	806.6	832.5	846.2	899.1	949.7	970.8
17.5°	711.9	711.6	717.9	734.5	763.7	788.5	830.3	831.0	892.4	958.2	976.7
20°	710.8	710.5	711.6	730.1	756.7	787.0	823.3	829.9	892.4	952.3	977.1
22.5°	720.1	714.2	720.8	732.6	751.9	789.6	825.8	840.6	913.9	981.5	993.8
25°	734.9	736.3	740.0	744.1	755.2	795.5	848.8	861.0	939.0	1006.7	1016.7
27.5°	761.9	761.1	762.6	764.8	774.4	801.1	858.0	889.5	991.5	1051.4	1041.5
30°	801.4	798.8	804.8	812.5	803.7	818.8	888.7	912.4	1040.4	1096.6	1069.2
32.5°	837.3	846.9	858.0	861.4	850.6	853.6	929.4	953.4	1081.0	1152.0	1103.2
35°	882.1	889.8	904.6	915.0	913.1	904.3	984.9	1016.7	1139.8	1192.7	1139.1
37.5°	925.7	934.9	959.4	990.1	973.0	969.0	1044.1	1070.3	1158.0	1214.5	1165.4
40°	996.0	995.6	1037.8	1053.7	1068.8	1061.8	1105.4	1114.3	1167.6	1209.7	1166.1
42.5°	1078.4	1073.3	1116.2	1140.9	1160.5	1161.3	1169.4	1166.5	1172.0	1185.3	1158.3
45°	1156.9	1167.9	1211.2	1255.6	1275.2	1277.4	1223.4	1217.9	1179.8	1178.3	1143.5
47.5°	1252.6	1255.2	1290.7	1349.2	1394.7	1379.1	1293.3	1281.1	1213.8	1225.3	1168.3
50°	1258.2	1277.4	1309.2	1378.0	1517.8	1513.7	1383.9	1361.0	1268.5	1291.8	1237.5
52.5°	1142.1	1137.6	1175.3	1287.8	1508.6	1647.6	1534.1	1479.3	1386.1	1368.4	1349.5
55°	870.2	880.6	913.9	1027.4	1310.0	1649.5	1738.6	1693.9	1511.9	1481.6	1459.7
56°	763.3	764.8	796.3	899.8	1195.3	1590.7	1777.4	1741.2	1574.4	1528.2	1494.9
57.5°	632.8	624.3	640.6	697.1	1008.9	1466.4	1734.9	1770.4	1647.6	1578.5	1532.2
60°	498.2	496.3	489.7	500.0	637.6	1104.7	1444.2	1524.1	1640.2	1531.1	1467.5
62.5°	406.8	397.6	410.9	425.7	443.1	685.3	1014.8	1061.8	1302.2	1222.3	1102.5
65°	315.5	311.0	327.7	375.8	386.1	435.3	578.1	614.3	768.9	755.2	665.0
67.5°	217.1	217.8	232.3	305.5	358.0	353.6	353.9	372.8	401.3	298.1	259.6
70°	137.6	137.2	145.0	196.8	288.1	291.1	276.3	270.7	256.7	155.3	164.6
72.5°	88.4	85.8	89.9	108.7	149.0	172.3	177.5	180.9	148.7	122.0	132.4
75°	49.9	47.3	45.9	50.7	58.8	68.1	74.7	76.9	86.2	92.5	98.0
77.5°	15.2	13.7	16.6	22.2	29.2	39.2	47.7	49.2	58.1	65.5	71.0
80°	6.7	7.4	10.4	14.8	20.7	27.7	33.7	35.9	41.8	47.3	48.8
82.5°	4.1	4.4	7.0	10.0	14.4	19.6	24.0	24.8	30.7	35.1	36.2
85°	1.5	1.8	3.7	5.9	9.2	12.6	12.6	13.7	12.6	12.6	13.7
87.5°	0.0	0.0	0.4	0.7	0.7	1.1	1.5	1.5	1.8	2.2	2.6
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°	953.8	953.8	953.8	953.8	953.8	953.8	953.8	953.8	953.8	953.8	953.8
2.5°	956.4	954.5	951.6	940.9	939.8	936.4	917.9	915.0	917.9	909.1	909.8
5°	954.5	960.1	937.9	927.2	907.2	892.8	876.1	867.6	852.5	842.9	853.6
7.5°	962.7	960.5	932.7	909.4	879.5	842.9	813.6	797.0	770.4	763.0	768.5
10°	959.7	947.9	915.3	884.7	828.1	795.9	748.6	702.7	677.5	664.6	662.7
12.5°	955.7	952.3	898.0	845.1	785.5	717.9	651.3	608.0	567.0	549.2	551.8
15°	960.5	932.4	865.4	798.5	719.3	630.6	558.8	503.0	474.5	463.0	463.0
17.5°	958.2	922.7	849.9	746.3	646.1	541.1	462.3	428.6	416.8	416.8	420.1
20°	959.4	929.0	818.4	694.2	559.6	455.6	398.3	386.1	391.3	393.1	395.0
22.5°	965.6	908.3	787.8	636.9	479.3	389.8	361.7	362.1	371.3	381.3	379.5
25°	973.4	900.2	750.4	579.9	417.9	357.6	348.8	347.6	354.7	359.9	360.6
27.5°	966.8	886.1	712.3	508.9	367.6	336.2	334.3	335.1	337.3	347.6	344.3
30°	988.6	890.2	664.6	449.4	339.9	329.2	326.9	325.8	329.2	332.1	329.5
32.5°	1015.6	875.8	629.1	392.0	326.2	324.0	319.5	318.1	319.9	317.0	318.4
35°	1027.4	873.2	582.9	351.0	315.5	313.6	311.0	310.7	311.0	308.4	306.2
37.5°	1034.1	885.4	530.0	332.1	308.8	310.7	304.7	304.0	297.3	298.8	299.9
40°	1045.5	866.5	487.1	314.0	304.7	301.0	295.9	294.8	290.3	287.7	290.3
42.5°	1028.9	861.0	444.9	306.2	298.8	294.8	291.1	284.8	283.3	281.1	279.6
45°	1015.6	829.2	407.2	296.6	291.8	289.6	282.6	275.9	270.4	272.6	269.2
47.5°	1025.6	818.1	369.8	288.5	282.2	279.6	272.6	267.4	261.8	259.3	258.5
50°	1065.5	838.8	338.4	282.6	274.0	272.6	263.3	257.4	252.2	250.4	251.1
52.5°	1160.9	895.4	317.0	270.4	266.3	259.6	254.4	247.1	243.7	237.8	241.5
55°	1281.9	987.5	311.4	258.9	256.7	250.7	243.7	238.2	231.9	227.1	226.0
56°	1320.7	1031.5	307.0	254.4	250.7	247.4	238.2	234.8	224.9	223.8	223.0
57.5°	1352.1	1070.3	307.7	245.9	242.2	239.3	233.7	225.6	218.9	214.9	216.7
60°	1281.1	1001.9	293.7	233.0	232.3	226.7	218.9	215.2	207.1	202.3	201.2
62.5°	952.3	680.1	238.2	216.4	216.0	210.1	201.2	197.1	195.6	189.0	189.0
65°	548.5	426.4	206.0	202.7	199.7	193.8	184.9	181.6	177.9	175.7	173.8
67.5°	234.1	221.2	187.1	186.8	183.4	176.0	167.2	162.0	157.2	152.7	155.0
70°	169.8	172.3	169.0	167.2	163.1	153.9	146.1	139.8	132.4	129.4	131.7
72.5°	134.6	140.2	145.0	145.3	140.5	129.8	121.3	112.8	104.7	100.6	102.4
75°	102.1	105.8	110.6	111.7	104.7	97.3	89.1	80.3	74.0	69.2	69.9
77.5°	73.6	72.9	77.3	76.6	73.2	68.1	60.7	52.5	45.5	41.1	41.4
80°	50.3	51.4	54.0	53.6	49.6	46.2	40.7	34.0	28.8	25.1	24.4
82.5°	35.1	37.0	39.2	37.4	34.0	30.7	26.6	21.8	17.8	14.8	14.1
85°	12.6	14.4	16.6	17.8	18.9	18.1	15.2	12.2	8.9	7.4	7.0
87.5°	2.6	3.0	3.3	3.3	3.3	3.0	2.6	2.6	2.2	1.1	1.1
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)