

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: P526917

Luminaire Tested: **GALN-SA1D-827-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526917
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1D-827-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS
WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3436 lumens
Efficiency: N/A
Efficacy: 52.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

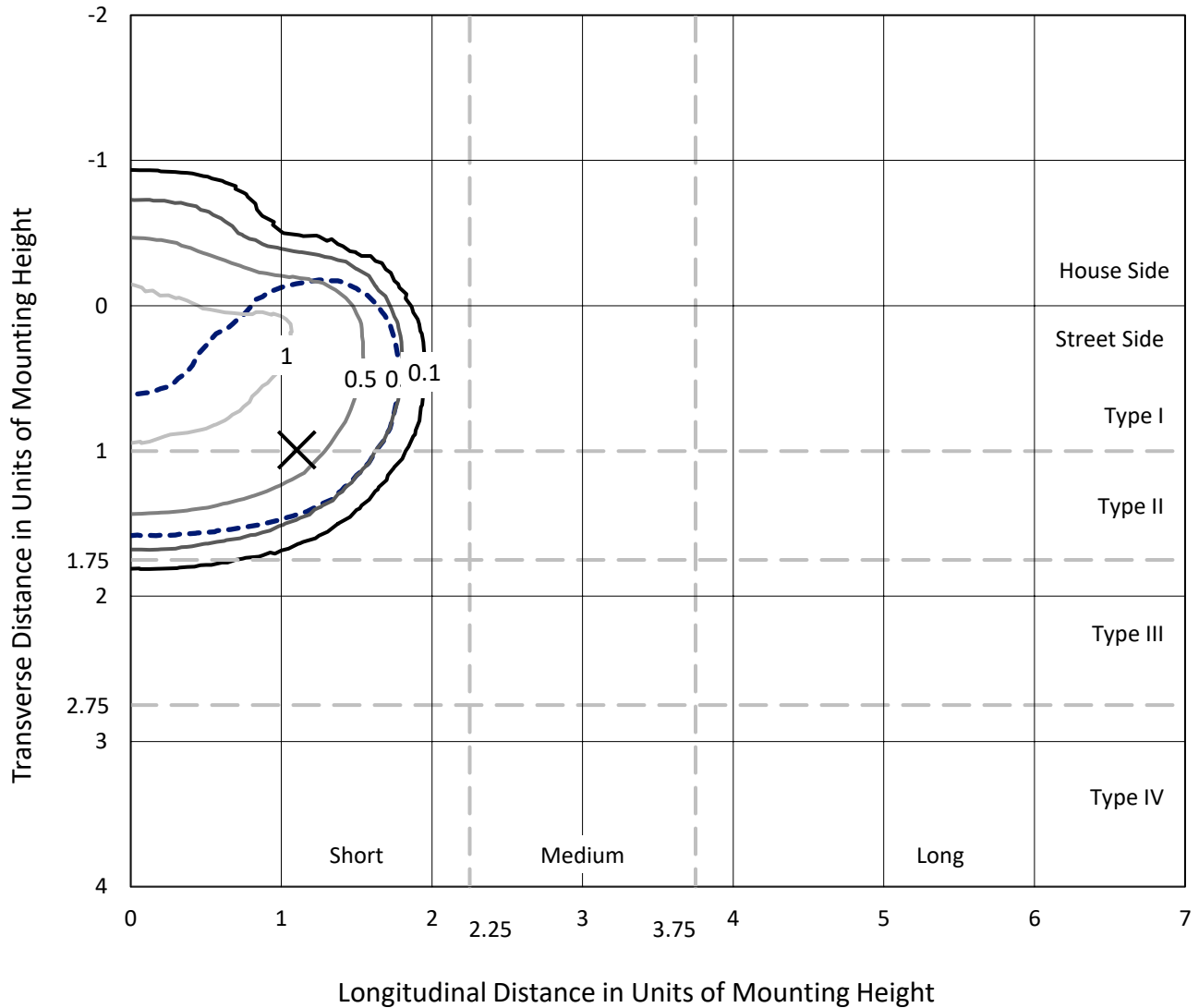
Input Watts (W): 65
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

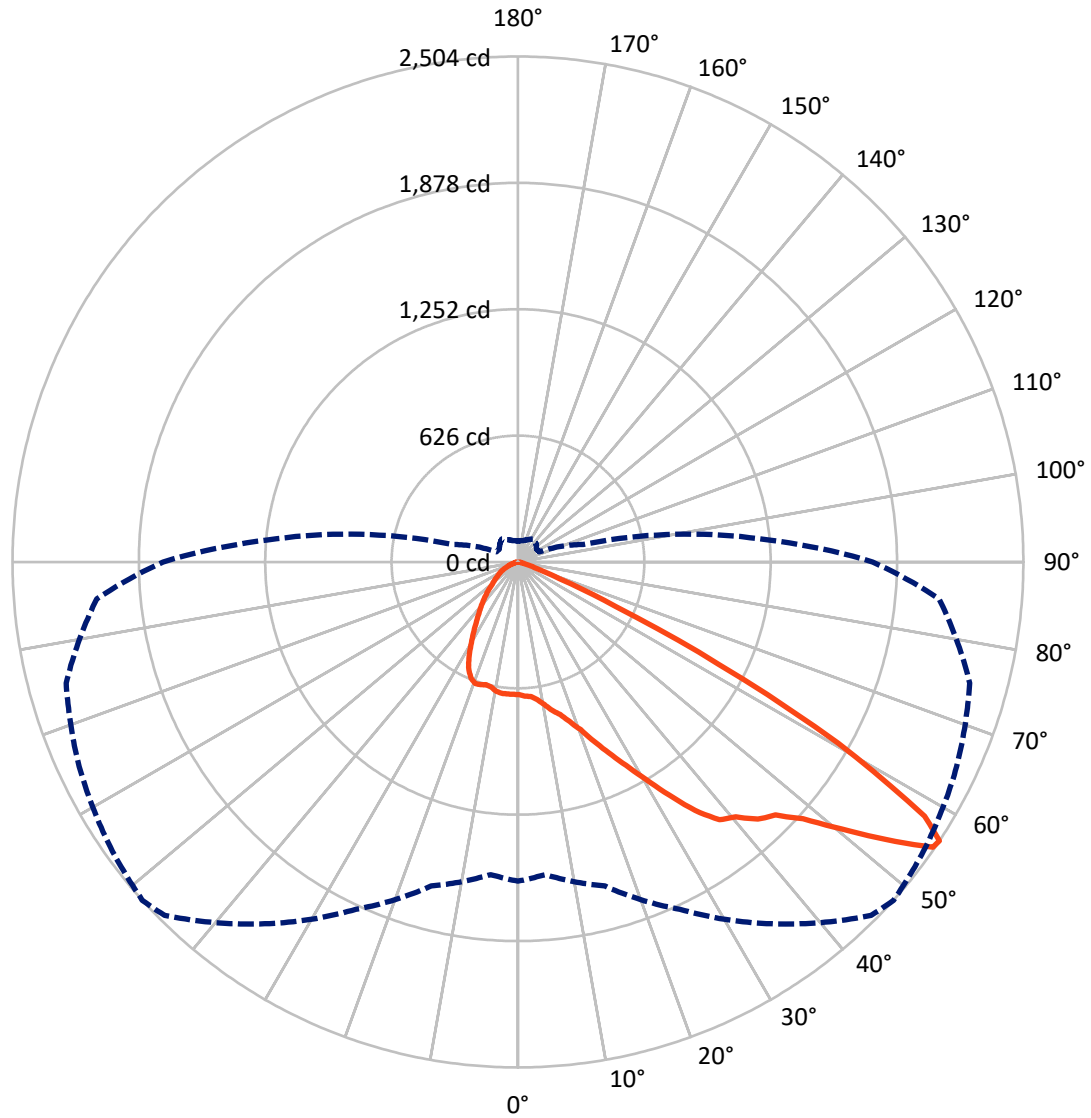
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	747.3	0.0	747.3
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	2688.7	0.0	2688.7
	% Fixture	78.3	0.0	78.3
Total	Lumens	3436.0	0.0	3436.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.9	1.9
10°-20°	204.3	5.9
20°-30°	370.6	10.8
30°-40°	582.1	16.9
40°-50°	849.2	24.7
50°-60°	1023.1	29.8
60°-70°	299.5	8.7
70°-80°	38.0	1.1
80°-90°	5.3	0.2
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°	3436.0	100.0
0°-180°	3436.0	100.0

Coefficient of Utilization

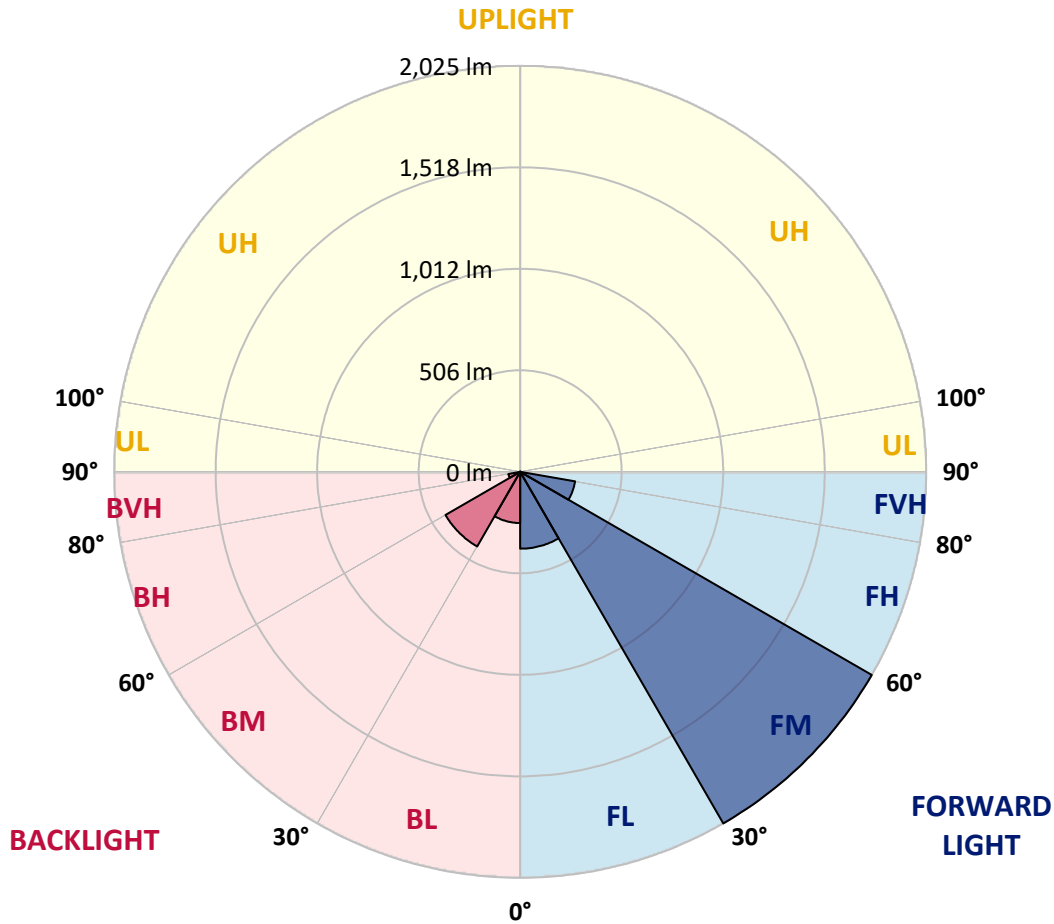


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	383.4	11.2			
FM (30°-60°)	2024.5	58.9			
FH (60°-80°)	278.2	8.1			G0/660
FVH (80°-90°)	2.7	0.1			G0/10
BL (0°-30°)	255.4	7.4	B1/500		
BM (30°-60°)	429.8	12.5	B1/1000		
BH (60°-80°)	59.4	1.7	B0/110		G0/110
BVH (80°-90°)	2.6	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G0
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	656.3	656.3	656.3	656.3	656.3	656.3	656.3	656.3	656.3	656.3	656.3
2.5°	668.2	665.0	665.0	660.0	665.7	663.2	665.0	658.8	665.0	655.7	663.2
5°	671.3	671.9	669.4	672.5	672.5	676.3	670.0	675.7	678.8	671.9	668.8
7.5°	687.6	688.8	688.2	685.7	690.7	690.1	689.4	685.1	686.3	683.8	680.1
10°	719.5	718.8	722.0	715.7	712.0	716.3	717.6	710.7	705.7	703.8	691.9
12.5°	765.8	758.3	753.9	747.6	749.5	743.2	754.5	742.6	740.1	728.8	717.0
15°	803.3	802.0	802.7	792.7	781.4	783.9	783.9	777.6	773.9	760.1	743.2
17.5°	880.3	854.0	859.6	847.1	837.7	837.1	831.5	832.7	822.7	793.9	768.3
20°	940.3	929.0	920.3	899.0	884.6	889.0	886.5	880.3	877.1	839.6	803.3
22.5°	994.1	997.9	983.5	977.8	957.8	959.7	964.7	959.1	935.3	896.5	842.7
25°	1069.8	1065.4	1046.0	1039.2	1020.4	1027.3	1046.7	1042.3	1027.3	957.2	873.4
27.5°	1159.3	1144.3	1148.0	1116.7	1098.6	1118.0	1141.1	1163.0	1120.5	1028.5	909.7
30°	1222.5	1206.8	1205.6	1204.3	1199.9	1222.5	1249.4	1269.4	1235.0	1099.8	969.7
32.5°	1253.7	1257.5	1268.1	1264.4	1302.5	1348.8	1377.0	1405.8	1362.6	1216.2	1049.2
35°	1337.0	1313.2	1337.0	1339.5	1378.9	1477.1	1512.8	1581.6	1570.9	1380.7	1146.1
37.5°	1385.8	1383.9	1387.0	1410.8	1448.9	1570.3	1621.0	1674.2	1654.1	1479.6	1266.9
40°	1466.5	1471.5	1470.8	1489.0	1530.9	1640.4	1661.0	1704.2	1706.1	1616.6	1444.6
42.5°	1596.0	1575.9	1562.8	1581.6	1640.4	1701.1	1742.4	1733.6	1795.5	1783.0	1672.9
45°	1712.3	1724.2	1704.8	1736.1	1757.4	1789.9	1788.7	1807.4	1886.3	1945.7	1845.0
47.5°	1821.2	1828.7	1838.1	1859.3	1905.6	1910.6	1900.0	1891.9	2000.7	2062.1	1978.2
50°	1886.3	1893.1	1936.9	1975.1	2061.4	2072.7	2078.9	2058.3	2132.1	2139.0	2104.0
52.5°	1868.7	1876.2	1937.6	2063.3	2200.9	2304.2	2285.4	2250.4	2246.0	2272.9	2220.3
55°	1713.6	1706.7	1791.2	1987.0	2244.7	2492.5	2495.0	2458.1	2387.4	2369.2	2202.8
56°	1581.6	1554.7	1662.3	1898.8	2188.4	2476.2	2504.4	2465.0	2398.6	2317.3	2094.6
57.5°	1295.7	1321.3	1428.3	1624.1	1993.9	2359.2	2375.5	2366.1	2316.1	2179.7	1843.1
60°	714.5	759.5	854.0	1093.6	1419.5	1810.6	1823.7	1900.0	1909.4	1669.2	1268.1
62.5°	303.4	298.4	396.6	573.1	808.3	1093.0	1117.4	1195.6	1210.0	962.2	636.3
65°	123.2	130.1	179.6	288.4	427.3	498.0	532.4	558.1	605.6	397.3	234.6
67.5°	81.3	80.7	105.7	164.5	230.2	222.1	222.1	234.6	217.1	162.0	101.4
70°	58.2	60.1	75.7	113.9	143.3	106.4	102.0	97.6	110.7	107.0	82.0
72.5°	38.2	40.7	50.7	68.2	74.4	58.2	58.2	70.1	91.3	86.3	66.9
75°	25.0	25.7	31.3	39.4	36.9	30.0	33.2	46.9	66.3	63.8	47.5
77.5°	16.9	17.5	21.3	25.7	20.6	16.9	18.1	23.8	32.5	32.5	25.0
80°	6.3	6.9	8.8	8.1	9.4	11.9	13.1	16.3	19.4	19.4	16.9
82.5°	0.0	0.6	1.9	4.4	6.9	9.4	10.6	12.5	14.4	16.3	15.6
85°	0.0	0.6	1.9	3.1	5.0	5.6	6.3	4.4	3.8	3.8	3.1
87.5°	0.0	0.0	0.6	0.6	0.6	0.6	0.6	0.6	1.3	0.6	0.6
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°	656.3	656.3	656.3	656.3	656.3	656.3	656.3	656.3	656.3	656.3	656.3
2.5°	656.3	655.7	655.7	653.8	657.5	655.7	656.9	656.3	648.1	654.4	650.0
5°	663.2	667.5	660.7	659.4	654.4	656.3	656.3	650.0	655.7	655.0	653.8
7.5°	680.7	673.2	665.7	658.2	656.9	655.0	648.1	645.6	650.0	645.0	652.5
10°	688.2	689.4	678.2	668.2	658.8	645.6	636.3	630.6	623.7	631.3	635.6
12.5°	722.6	710.1	690.7	675.0	643.1	630.0	620.6	618.1	630.0	632.5	628.1
15°	734.5	732.6	707.6	672.5	639.4	623.7	625.6	620.6	621.9	615.6	616.9
17.5°	758.9	737.6	708.2	664.4	638.8	635.0	623.7	603.7	592.5	587.5	591.8
20°	785.8	765.1	722.6	667.5	644.4	634.4	597.5	573.1	549.9	537.4	538.0
22.5°	809.6	783.9	716.3	668.8	649.4	608.1	563.7	515.5	486.7	467.3	468.0
25°	838.3	802.0	718.8	671.3	636.3	566.2	502.4	455.5	421.0	407.9	412.3
27.5°	854.6	813.3	732.6	676.9	601.8	506.8	437.9	394.1	374.1	367.9	367.2
30°	903.4	838.3	749.5	665.7	544.3	442.9	379.1	352.2	332.8	327.2	328.5
32.5°	976.0	884.0	771.4	636.3	485.5	386.0	341.0	320.9	302.8	292.2	290.9
35°	1036.7	962.2	794.5	590.6	417.3	342.2	314.1	289.0	261.5	249.6	246.5
37.5°	1152.4	1050.4	789.5	521.8	352.2	309.7	285.3	254.6	230.9	214.6	212.7
40°	1306.3	1153.6	765.1	437.9	304.1	280.9	254.6	225.2	195.8	182.1	180.8
42.5°	1493.4	1280.0	720.7	352.9	255.9	252.1	228.4	194.6	168.3	158.3	158.9
45°	1645.4	1388.3	675.7	283.4	220.2	224.0	203.3	171.4	153.3	145.1	145.1
47.5°	1780.5	1461.5	626.9	234.0	187.1	195.8	177.7	158.9	143.3	137.0	135.8
50°	1910.6	1535.9	578.1	189.6	159.5	168.3	166.4	151.4	138.9	131.4	132.0
52.5°	1992.0	1547.8	516.1	155.2	139.5	149.5	155.8	142.0	128.3	123.9	122.6
55°	1892.5	1394.5	400.4	127.6	118.2	131.4	143.3	127.6	117.0	109.5	108.9
56°	1758.6	1246.9	334.7	117.6	112.0	126.4	138.9	122.0	110.1	105.7	102.6
57.5°	1489.0	1020.4	247.1	104.5	103.9	117.6	132.0	116.4	102.6	98.8	98.8
60°	928.4	574.3	149.5	87.6	90.1	104.5	118.9	103.9	91.3	91.3	93.2
62.5°	422.9	239.0	90.7	74.4	77.6	90.1	105.7	93.8	87.0	93.8	95.1
65°	143.9	103.2	65.7	59.4	61.3	74.4	90.7	95.1	94.5	98.8	101.4
67.5°	80.7	66.3	55.1	49.4	48.2	55.1	74.4	95.1	91.3	89.5	90.7
70°	68.2	56.3	48.8	43.8	41.9	44.4	57.6	71.9	64.4	62.6	61.3
72.5°	55.1	46.9	42.5	39.4	33.8	28.8	26.3	27.5	30.7	32.5	35.7
75°	38.8	35.7	35.7	31.9	24.4	18.1	14.4	11.9	8.1	5.6	6.3
77.5°	21.9	21.9	22.5	19.4	15.6	11.9	8.8	6.3	3.1	1.3	0.6
80°	15.0	16.3	17.5	15.6	13.1	10.6	7.5	4.4	1.9	0.0	0.0
82.5°	15.0	16.9	18.1	15.6	13.1	10.0	7.5	4.4	1.9	0.6	0.0
85°	3.1	3.8	4.4	5.0	7.5	7.5	5.6	3.8	1.9	0.6	0.0
87.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.0	0.0
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)