

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: P526605

Luminaire Tested: **GALN-SA1C-740-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526605
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-SA1C-740-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 1050mA 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: 4248 lumens
Efficiency: N/A
Efficacy: 74.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

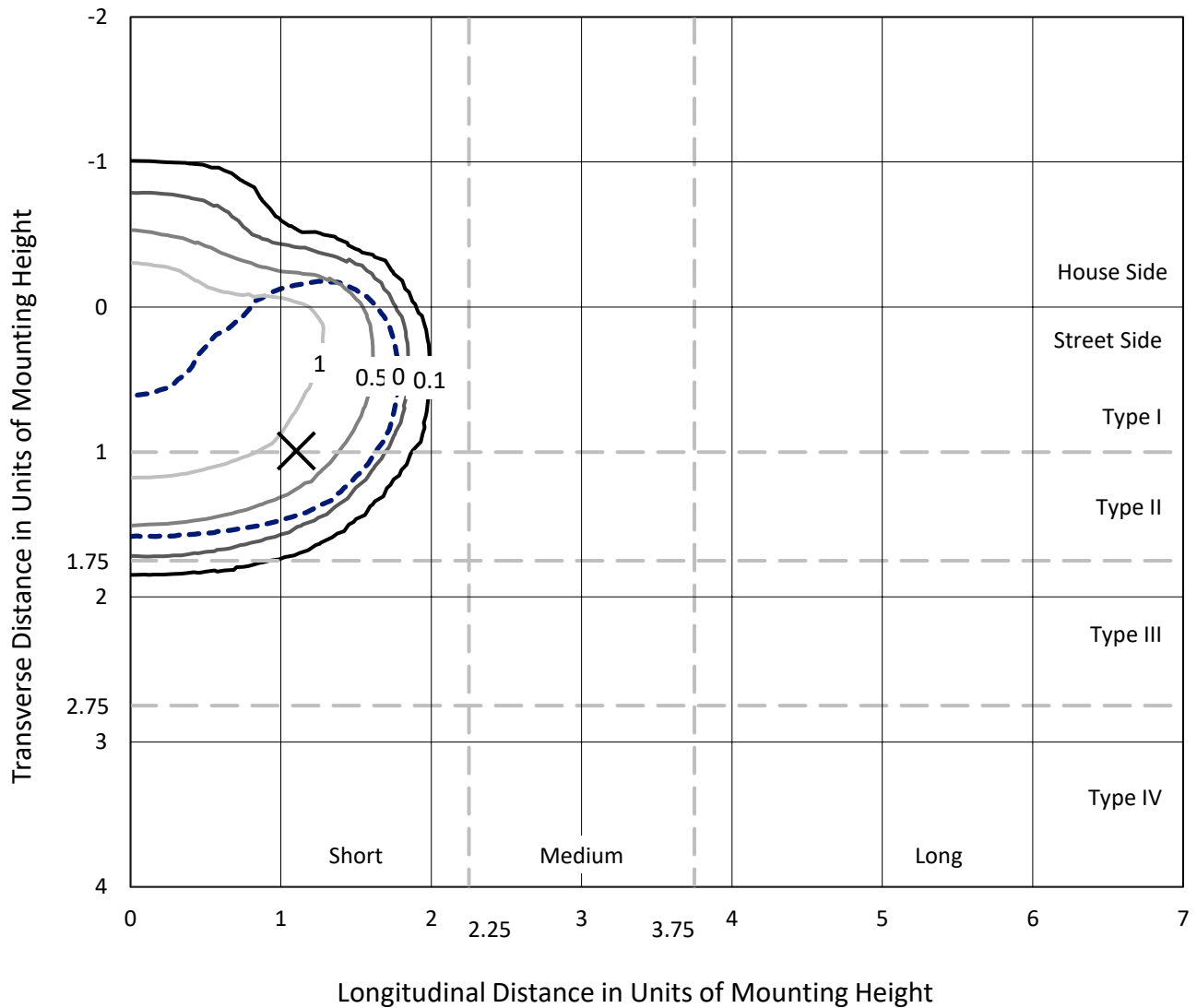
Input Watts (W): 57
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

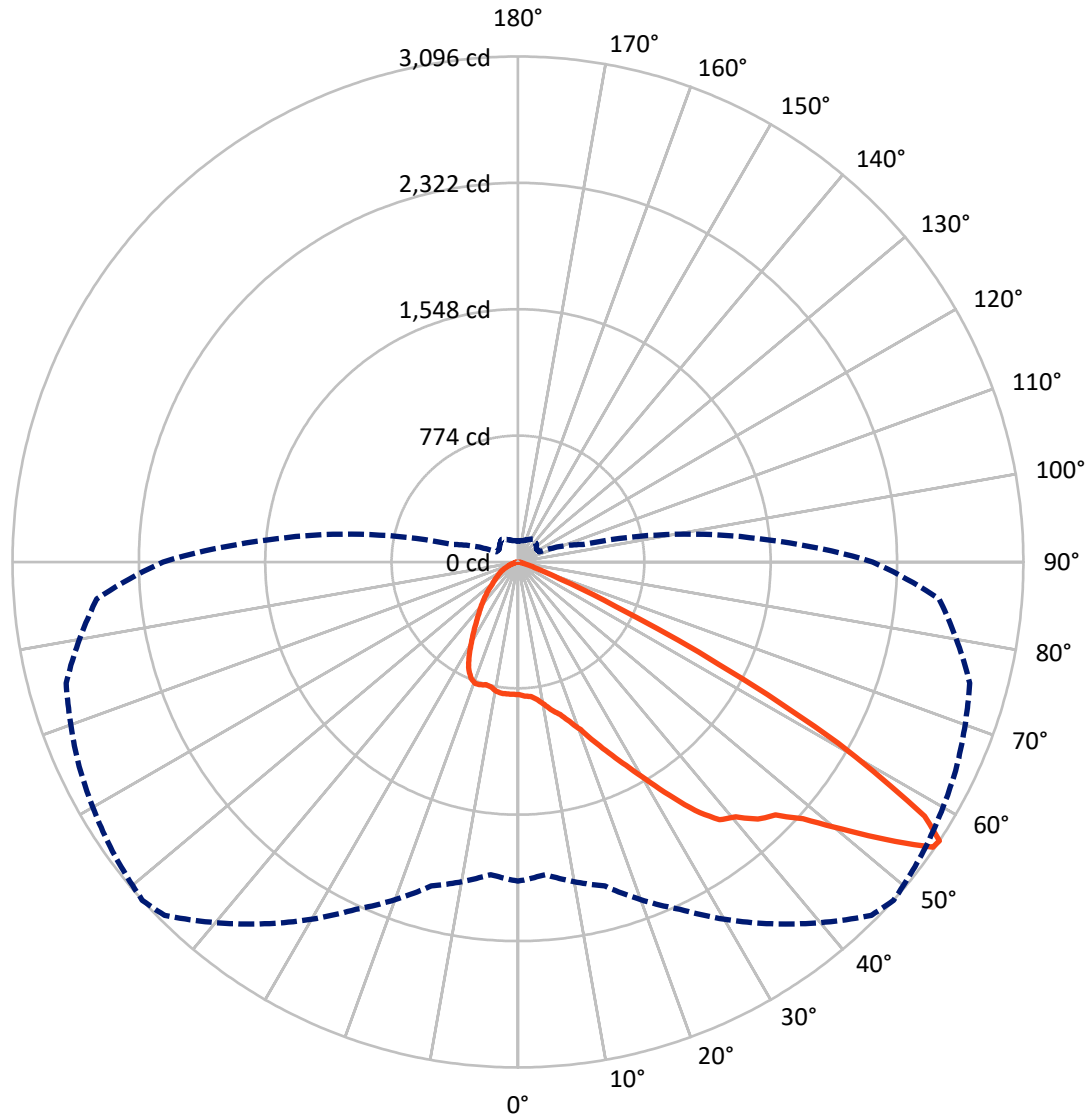
✕ Max cd
 - - - 1/2 Max cd



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	923.9	0.0	923.9
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	3324.1	0.0	3324.1
	% Fixture	78.3	0.0	78.3
Total	Lumens	4248.0	0.0	4248.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.0	1.9
10°-20°	252.6	5.9
20°-30°	458.1	10.8
30°-40°	719.6	16.9
40°-50°	1049.8	24.7
50°-60°	1264.8	29.8
60°-70°	370.3	8.7
70°-80°	47.0	1.1
80°-90°	6.6	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°	4248.0	100.0
0°-180°	4248.0	100.0

Coefficient of Utilization

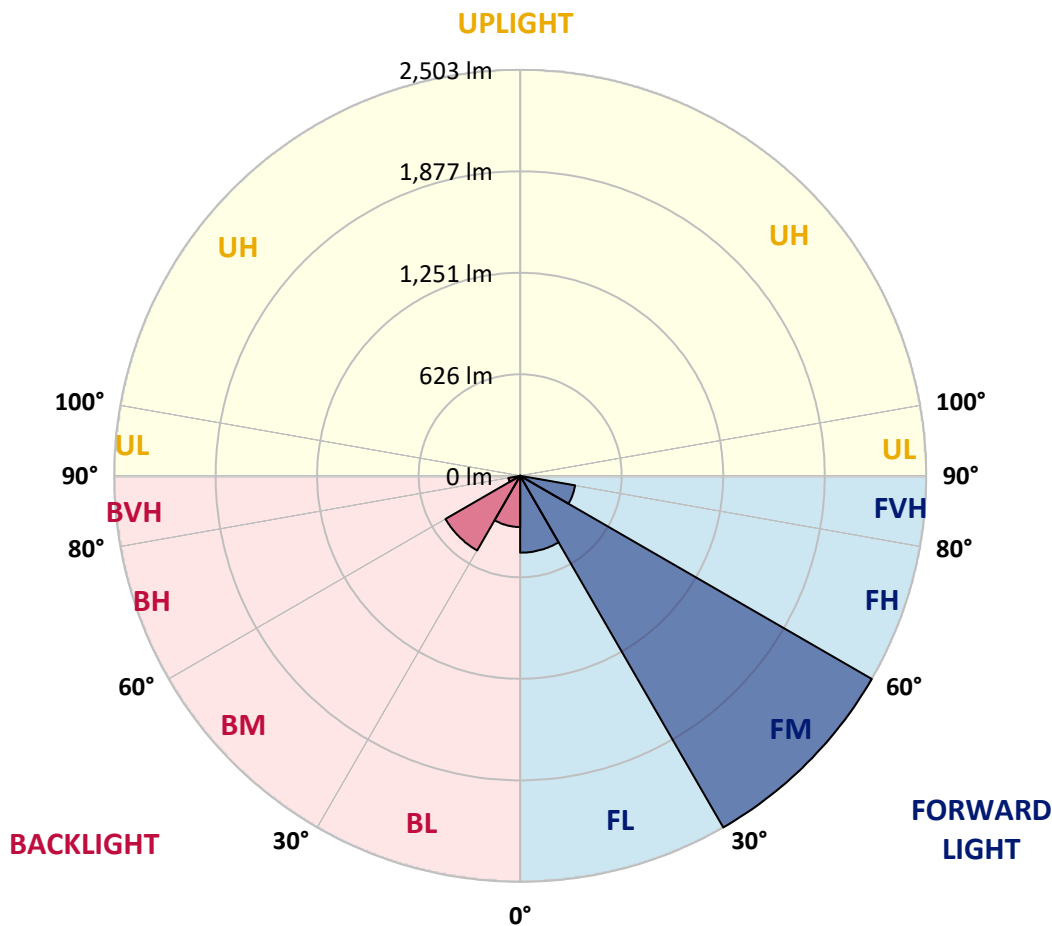


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	474.0	11.2			
FM (30°-60°)	2502.9	58.9			
FH (60°-80°)	343.9	8.1			G0/660
FVH (80°-90°)	3.3	0.1			G0/10
BL (0°-30°)	315.8	7.4	B1/500		
BM (30°-60°)	531.4	12.5	B1/1000		
BH (60°-80°)	73.4	1.7	B0/110		G0/110
BVH (80°-90°)	3.3	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°	811.4	811.4	811.4	811.4	811.4	811.4	811.4	811.4	811.4	811.4	811.4
2.5°	826.1	822.2	822.2	816.0	823.0	819.9	822.2	814.5	822.2	810.6	819.9
5°	829.9	830.7	827.6	831.5	831.5	836.1	828.4	835.3	839.2	830.7	826.8
7.5°	850.0	851.6	850.8	847.7	853.9	853.1	852.4	846.9	848.5	845.4	840.8
10°	889.5	888.7	892.6	884.8	880.2	885.6	887.2	878.7	872.5	870.2	855.5
12.5°	946.7	937.4	932.0	924.3	926.6	918.9	932.8	918.1	915.0	901.1	886.4
15°	993.1	991.6	992.4	980.0	966.1	969.2	969.2	961.4	956.8	939.8	918.9
17.5°	1088.3	1055.8	1062.7	1047.3	1035.7	1034.9	1027.9	1029.5	1017.1	981.5	949.8
20°	1162.5	1148.6	1137.8	1111.5	1093.7	1099.1	1096.0	1088.3	1084.4	1038.0	993.1
22.5°	1229.0	1233.7	1215.9	1208.9	1184.2	1186.5	1192.7	1185.7	1156.3	1108.4	1041.9
25°	1322.6	1317.2	1293.2	1284.7	1261.5	1270.0	1294.0	1288.6	1270.0	1183.4	1079.8
27.5°	1433.2	1414.7	1419.3	1380.6	1358.2	1382.2	1410.8	1437.9	1385.3	1271.6	1124.6
30°	1511.4	1492.0	1490.5	1488.9	1483.5	1511.4	1544.6	1569.4	1526.8	1359.8	1198.9
32.5°	1550.0	1554.7	1567.8	1563.2	1610.4	1667.6	1702.4	1738.0	1684.6	1503.6	1297.1
35°	1652.9	1623.5	1652.9	1656.0	1704.7	1826.2	1870.3	1955.3	1942.2	1707.0	1417.0
37.5°	1713.2	1710.9	1714.8	1744.2	1791.4	1941.4	2004.1	2069.8	2045.1	1829.3	1566.3
40°	1813.0	1819.2	1818.4	1840.9	1892.7	2028.0	2053.6	2106.9	2109.3	1998.6	1785.9
42.5°	1973.1	1948.4	1932.1	1955.3	2028.0	2103.1	2154.1	2143.3	2219.9	2204.4	2068.3
45°	2117.0	2131.7	2107.7	2146.4	2172.7	2212.9	2211.4	2234.6	2332.0	2405.5	2281.0
47.5°	2251.6	2260.9	2272.5	2298.8	2356.0	2362.2	2349.0	2339.0	2473.6	2549.4	2445.7
50°	2332.0	2340.5	2394.7	2441.8	2548.6	2562.5	2570.2	2544.7	2636.0	2644.5	2601.2
52.5°	2310.4	2319.6	2395.4	2550.9	2721.1	2848.7	2825.5	2782.2	2776.8	2810.0	2745.0
55°	2118.5	2110.0	2214.4	2456.5	2775.2	3081.5	3084.6	3039.0	2951.6	2929.1	2723.4
56°	1955.3	1922.1	2055.1	2347.5	2705.6	3061.4	3096.2	3047.5	2965.5	2864.9	2589.6
57.5°	1601.9	1633.6	1765.8	2007.9	2465.0	2916.8	2936.9	2925.3	2863.4	2694.8	2278.6
60°	883.3	939.0	1055.8	1352.0	1755.0	2238.4	2254.7	2349.0	2360.6	2063.6	1567.8
62.5°	375.1	368.9	490.4	708.5	999.3	1351.3	1381.4	1478.1	1495.9	1189.6	786.6
65°	152.4	160.9	222.0	356.6	528.3	615.7	658.2	689.9	748.7	491.2	290.1
67.5°	100.6	99.8	130.7	203.4	284.6	274.6	274.6	290.1	268.4	200.3	125.3
70°	71.9	74.3	93.6	140.8	177.1	131.5	126.1	120.7	136.9	132.3	101.3
72.5°	47.2	50.3	62.7	84.3	92.0	71.9	71.9	86.6	112.9	106.7	82.8
75°	30.9	31.7	38.7	48.7	45.6	37.1	41.0	58.0	82.0	78.9	58.8
77.5°	20.9	21.7	26.3	31.7	25.5	20.9	22.4	29.4	40.2	40.2	30.9
80°	7.7	8.5	10.8	10.1	11.6	14.7	16.2	20.1	24.0	24.0	20.9
82.5°	0.0	0.8	2.3	5.4	8.5	11.6	13.1	15.5	17.8	20.1	19.3
85°	0.0	0.8	2.3	3.9	6.2	7.0	7.7	5.4	4.6	4.6	3.9
87.5°	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8	1.5	0.8	0.8
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°	811.4	811.4	811.4	811.4	811.4	811.4	811.4	811.4	811.4	811.4	811.4
2.5°	811.4	810.6	810.6	808.3	812.9	810.6	812.1	811.4	801.3	809.0	803.6
5°	819.9	825.3	816.8	815.2	809.0	811.4	811.4	803.6	810.6	809.8	808.3
7.5°	841.5	832.3	823.0	813.7	812.1	809.8	801.3	798.2	803.6	797.4	806.7
10°	850.8	852.4	838.4	826.1	814.5	798.2	786.6	779.7	771.1	780.4	785.8
12.5°	893.4	877.9	853.9	834.6	795.1	778.9	767.3	764.2	778.9	782.0	776.6
15°	908.1	905.7	874.8	831.5	790.5	771.1	773.5	767.3	768.8	761.1	762.6
17.5°	938.2	911.9	875.6	821.4	789.7	785.1	771.1	746.4	732.5	726.3	731.7
20°	971.5	946.0	893.4	825.3	796.7	784.3	738.7	708.5	679.9	664.4	665.2
22.5°	1000.9	969.2	885.6	826.8	802.9	751.8	696.9	637.3	601.8	577.8	578.6
25°	1036.4	991.6	888.7	829.9	786.6	700.0	621.1	563.1	520.5	504.3	509.7
27.5°	1056.6	1005.5	905.7	836.9	744.1	626.5	541.4	487.3	462.5	454.8	454.0
30°	1116.9	1036.4	926.6	823.0	672.9	547.6	468.7	435.5	411.5	404.5	406.1
32.5°	1206.6	1092.9	953.7	786.6	600.2	477.2	421.5	396.8	374.4	361.2	359.7
35°	1281.6	1189.6	982.3	730.2	515.9	423.1	388.3	357.3	323.3	308.6	304.7
37.5°	1424.7	1298.7	976.1	645.1	435.5	382.9	352.7	314.8	285.4	265.3	263.0
40°	1615.0	1426.3	946.0	541.4	375.9	347.3	314.8	278.4	242.1	225.1	223.5
42.5°	1846.3	1582.5	891.0	436.2	316.3	311.7	282.3	240.5	208.1	195.7	196.5
45°	2034.2	1716.3	835.3	350.4	272.3	276.9	251.4	211.9	189.5	179.4	179.4
47.5°	2201.3	1806.8	775.0	289.3	231.3	242.1	219.7	196.5	177.1	169.4	167.8
50°	2362.2	1898.9	714.7	234.4	197.2	208.1	205.7	187.2	171.7	162.4	163.2
52.5°	2462.7	1913.6	638.1	191.8	172.5	184.9	192.6	175.6	158.6	153.1	151.6
55°	2339.7	1724.1	495.0	157.8	146.2	162.4	177.1	157.8	144.6	135.4	134.6
56°	2174.2	1541.5	413.8	145.4	138.5	156.2	171.7	150.8	136.1	130.7	126.8
57.5°	1840.9	1261.5	305.5	129.2	128.4	145.4	163.2	143.9	126.8	122.2	122.2
60°	1147.8	710.0	184.9	108.3	111.4	129.2	147.0	128.4	112.9	112.9	115.2
62.5°	522.9	295.5	112.2	92.0	95.9	111.4	130.7	116.0	107.5	116.0	117.6
65°	177.9	127.6	81.2	73.5	75.8	92.0	112.2	117.6	116.8	122.2	125.3
67.5°	99.8	82.0	68.1	61.1	59.6	68.1	92.0	117.6	112.9	110.6	112.2
70°	84.3	69.6	60.3	54.1	51.8	54.9	71.2	88.9	79.7	77.3	75.8
72.5°	68.1	58.0	52.6	48.7	41.8	35.6	32.5	34.0	37.9	40.2	44.1
75°	48.0	44.1	44.1	39.4	30.2	22.4	17.8	14.7	10.1	7.0	7.7
77.5°	27.1	27.1	27.8	24.0	19.3	14.7	10.8	7.7	3.9	1.5	0.8
80°	18.6	20.1	21.7	19.3	16.2	13.1	9.3	5.4	2.3	0.0	0.0
82.5°	18.6	20.9	22.4	19.3	16.2	12.4	9.3	5.4	2.3	0.8	0.0
85°	3.9	4.6	5.4	6.2	9.3	9.3	7.0	4.6	2.3	0.8	0.0
87.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	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)