

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: P526281

Luminaire Tested: **GALN-SA1B-727-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526281
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)
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-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE II SPILL LIGHT
ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2810 lumens
Efficiency: N/A
Efficacy: 63.9 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

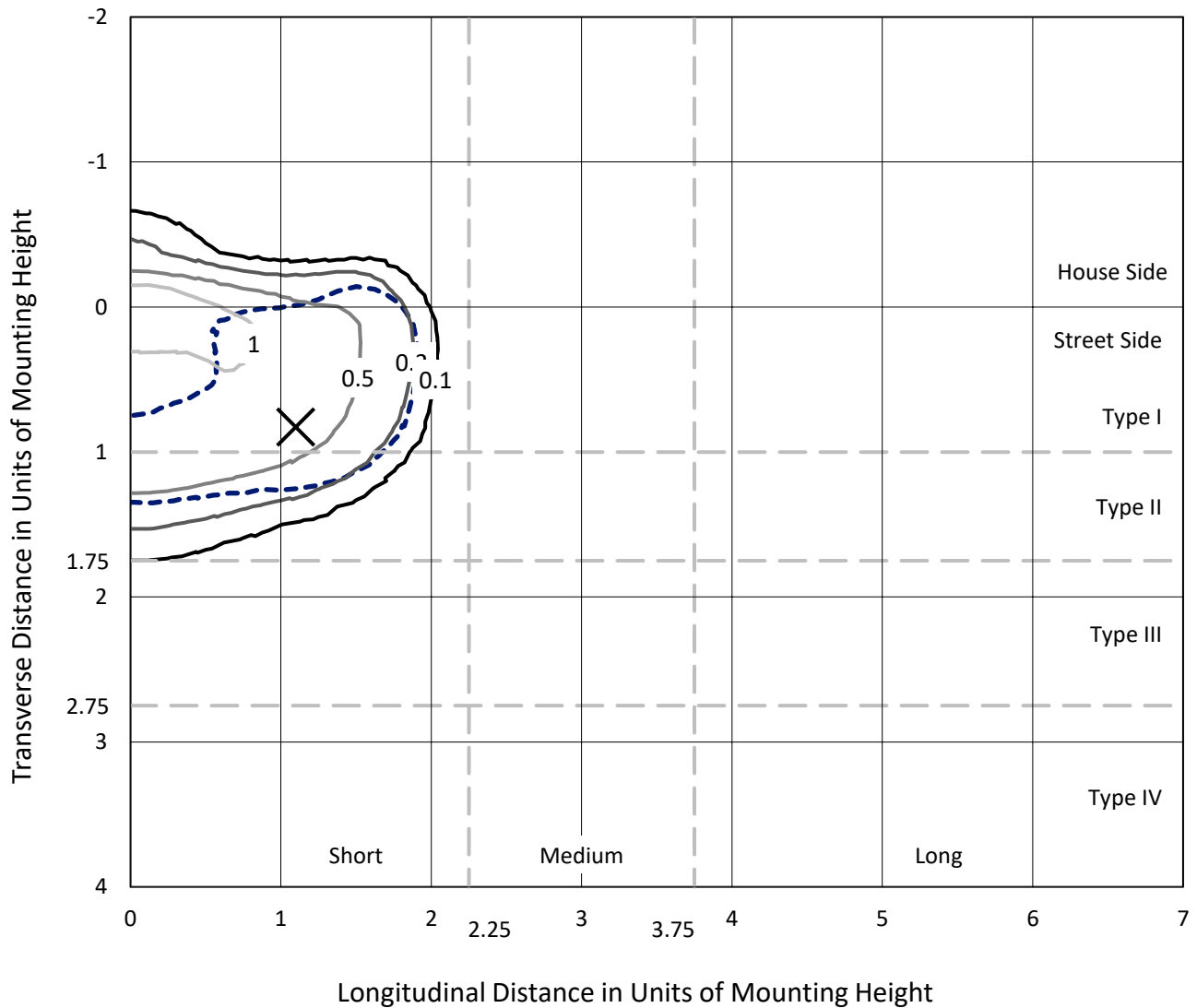
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

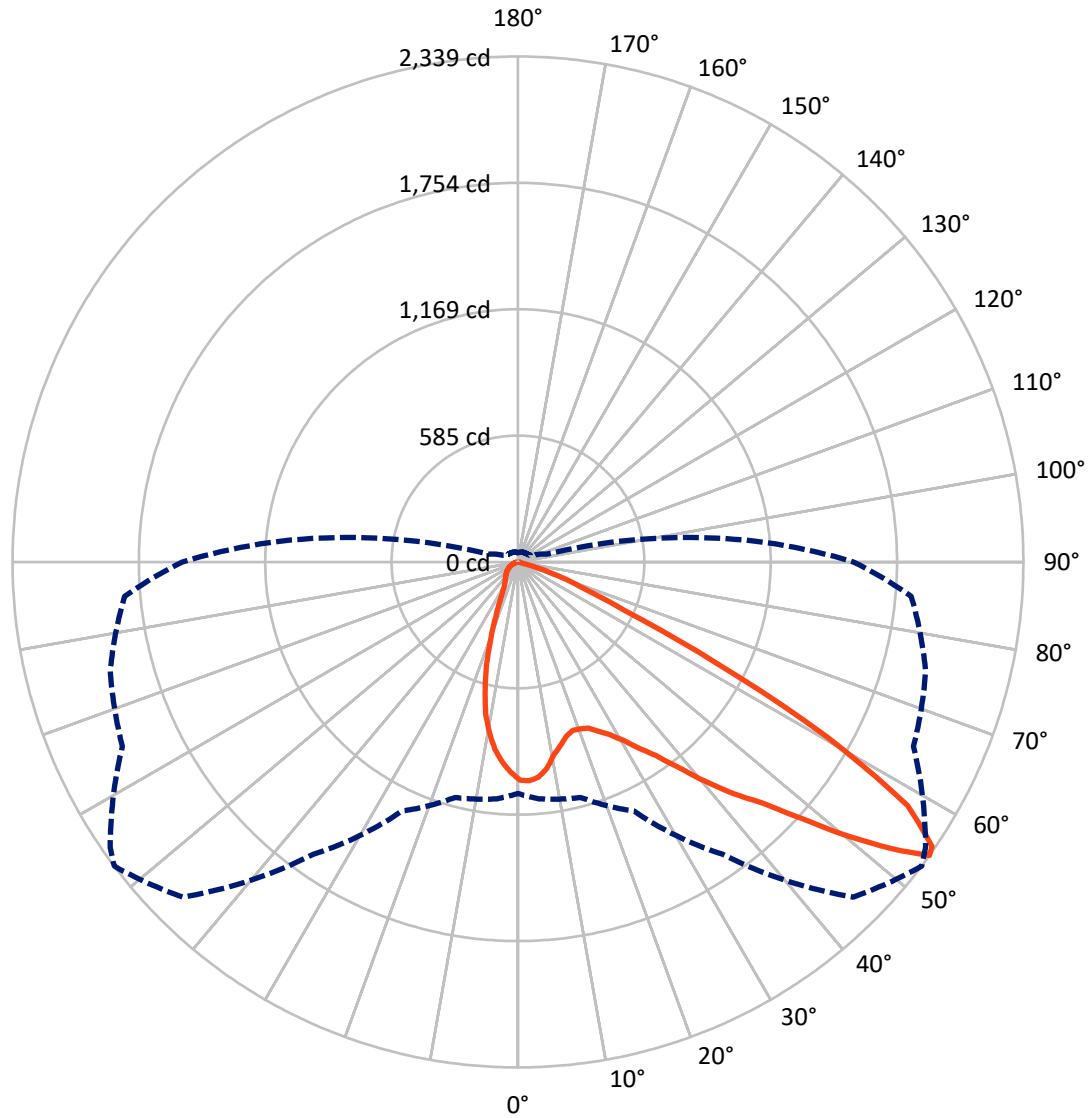
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	464.9	0.0	464.9
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	2345.1	0.0	2345.1
	% Fixture	83.5	0.0	83.5
Total	Lumens	2810.0	0.0	2810.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.6	3.1
10°-20°	198.5	7.1
20°-30°	282.2	10.0
30°-40°	435.5	15.5
40°-50°	682.7	24.3
50°-60°	793.1	28.2
60°-70°	299.7	10.7
70°-80°	28.5	1.0
80°-90°	3.2	0.1
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°	2810.0	100.0
0°-180°	2810.0	100.0

Coefficient of Utilization



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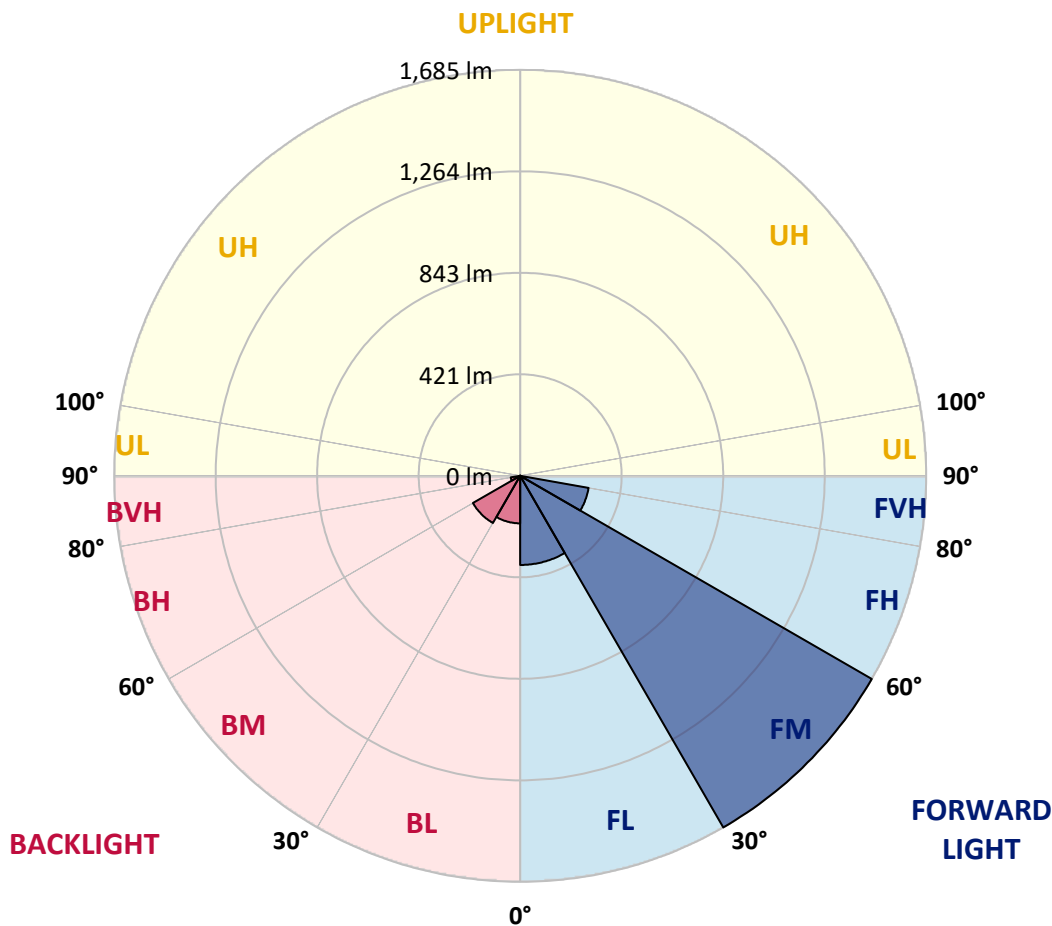
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	370.0	13.2			
FM (30°-60°)	1685.1	60.0			
FH (60°-80°)	288.4	10.3			G0/660
FVH (80°-90°)	1.7	0.1			G0/10
BL (0°-30°)	197.3	7.0	B1/500		
BM (30°-60°)	226.2	8.1	B1/1000		
BH (60°-80°)	39.8	1.4	B0/110		G0/110
BVH (80°-90°)	1.5	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°	53°	55°	65°	75°	85°
0°	1009.3	1009.3	1009.3	1009.3	1009.3	1009.3	1009.3	1009.3	1009.3	1009.3	1009.3
2.5°	1004.1	995.2	1004.1	1005.1	1011.4	1017.2	1013.5	1021.9	1017.2	1011.9	1010.4
5°	922.9	935.0	935.5	954.3	950.1	984.7	999.9	995.7	1021.3	1019.8	1016.1
7.5°	850.2	845.4	851.7	873.7	901.5	941.2	963.2	962.7	999.4	1025.5	1022.9
10°	782.6	782.1	795.2	812.5	836.0	877.9	908.3	923.5	980.5	1020.3	1026.1
12.5°	737.1	735.0	749.1	763.3	800.4	832.9	871.6	879.0	944.4	1002.0	1011.4
15°	707.2	712.0	713.0	740.2	763.8	806.7	837.1	852.3	927.6	987.3	1023.4
17.5°	702.0	708.3	708.8	731.3	756.5	792.6	819.3	839.7	913.5	994.6	1024.0
20°	712.5	708.8	712.0	726.1	750.7	785.2	824.0	830.8	908.8	998.3	1029.7
22.5°	742.3	741.3	733.4	744.9	762.2	798.3	835.0	845.4	922.4	1017.2	1034.4
25°	775.3	781.1	773.7	772.2	784.2	819.8	868.5	882.1	967.9	1051.2	1049.1
27.5°	837.1	831.3	831.3	824.0	820.8	838.1	904.6	927.1	1018.7	1095.2	1065.8
30°	896.2	902.5	897.8	900.4	879.5	877.9	955.9	983.7	1108.8	1162.2	1101.4
32.5°	989.9	981.6	989.4	982.6	954.9	926.6	1025.5	1054.3	1217.7	1239.1	1154.8
35°	1067.9	1064.3	1097.8	1096.7	1051.7	1024.0	1099.3	1142.3	1293.6	1331.3	1217.7
37.5°	1178.9	1172.1	1210.3	1228.7	1188.3	1147.0	1205.1	1254.8	1364.2	1405.1	1282.0
40°	1293.0	1310.3	1361.6	1392.0	1349.1	1294.1	1334.4	1349.6	1411.4	1453.2	1326.0
42.5°	1437.5	1462.7	1515.0	1541.2	1537.5	1477.8	1465.8	1465.3	1445.4	1439.6	1358.5
45°	1576.3	1566.8	1647.4	1704.5	1750.6	1733.3	1592.5	1576.8	1499.3	1460.0	1366.9
47.5°	1637.0	1633.8	1688.8	1790.4	1947.4	1968.9	1776.8	1716.0	1590.4	1545.9	1412.4
50°	1558.5	1574.7	1629.1	1741.7	1982.5	2146.3	2002.9	1921.2	1696.7	1650.6	1520.2
52.5°	1301.9	1312.9	1364.8	1507.7	1863.1	2251.0	2219.6	2172.5	1891.9	1815.5	1708.2
54°	1070.6	1099.9	1128.1	1271.6	1650.6	2192.9	2338.5	2302.3	2019.1	1952.6	1826.5
55°	932.4	949.6	970.0	1113.0	1503.5	2094.5	2324.9	2328.0	2104.5	1995.6	1906.1
57.5°	681.1	693.1	672.2	735.5	1032.3	1700.8	2126.4	2211.3	2219.6	2060.0	1954.7
60°	520.4	525.6	502.0	512.0	641.8	1167.4	1644.8	1746.9	2002.4	1800.3	1655.8
62.5°	403.6	404.7	404.1	421.4	442.4	686.8	1028.7	1119.2	1380.5	1278.4	1124.5
65°	297.3	292.6	301.0	353.4	377.4	431.9	541.8	607.8	750.2	633.4	452.8
67.5°	192.6	194.2	202.6	262.8	323.5	331.4	333.5	328.2	328.8	181.1	113.6
70°	115.7	118.3	115.7	148.7	231.4	237.7	217.3	212.0	165.4	42.9	42.4
72.5°	68.6	64.9	58.1	63.9	96.3	115.2	103.7	103.1	64.9	25.1	25.1
75°	28.8	26.2	21.5	19.4	25.7	24.6	24.6	22.0	17.3	16.8	15.7
77.5°	5.8	5.8	4.2	4.7	6.3	7.3	8.9	8.9	10.5	10.5	9.9
80°	0.0	0.5	1.6	3.1	4.7	6.8	7.9	7.9	8.9	8.9	7.3
82.5°	0.0	0.5	1.6	3.1	4.2	6.3	7.9	7.9	8.9	9.4	7.9
85°	0.0	0.5	1.6	2.6	4.2	5.2	5.2	4.7	3.7	3.1	2.1
87.5°	0.0	0.0	0.5	1.0	0.5	1.0	1.0	1.0	1.0	1.0	1.0
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°	1009.3	1009.3	1009.3	1009.3	1009.3	1009.3	1009.3	1009.3	1009.3	1009.3	1009.3
2.5°	1014.0	1013.5	1000.9	980.5	975.8	958.5	956.4	946.0	951.7	932.4	930.3
5°	1005.6	999.4	984.2	971.1	932.9	905.7	884.2	858.0	842.8	845.4	835.5
7.5°	1017.7	1001.5	974.8	929.2	882.6	835.0	809.3	755.9	736.6	707.8	703.6
10°	1005.1	993.1	951.7	876.3	811.9	743.4	683.2	624.0	579.0	559.6	555.4
12.5°	1004.1	983.1	914.0	830.3	737.1	638.7	551.2	477.4	432.9	407.8	402.0
15°	987.8	962.7	871.6	759.1	630.3	507.8	412.5	341.3	307.3	292.6	296.8
17.5°	989.4	951.7	829.2	683.7	525.1	372.7	281.6	245.0	236.1	239.8	239.8
20°	987.8	927.1	777.9	596.8	402.0	258.6	206.8	193.7	199.5	211.0	208.4
22.5°	979.5	915.6	730.8	505.2	295.8	191.6	165.9	166.5	175.4	189.5	192.6
25°	985.7	889.9	671.1	412.5	215.7	152.9	144.0	147.6	157.0	167.5	169.6
27.5°	981.0	871.6	608.8	320.4	157.6	131.4	130.9	135.1	139.3	147.1	147.1
30°	986.3	854.9	547.6	238.2	129.8	120.4	118.3	121.5	125.6	127.2	126.7
32.5°	1005.6	842.3	476.9	178.0	114.6	109.9	109.9	109.9	109.4	111.5	112.0
35°	1048.0	844.4	414.6	137.7	104.7	101.0	99.5	97.4	96.3	97.4	97.9
37.5°	1094.1	843.4	350.2	117.3	97.4	94.2	90.6	87.4	86.9	87.9	86.4
40°	1114.5	853.3	290.5	105.2	90.6	86.9	81.1	78.5	79.0	80.1	79.0
42.5°	1142.3	856.4	251.8	95.8	84.3	78.5	74.9	71.7	71.2	72.8	72.2
45°	1141.7	838.6	211.0	90.6	78.5	72.2	67.5	64.9	64.9	66.0	66.5
47.5°	1175.3	836.0	181.1	85.9	74.3	68.1	62.3	60.2	59.7	59.7	58.6
50°	1253.3	872.7	158.1	80.6	69.1	63.3	58.6	56.0	53.9	52.9	52.3
52.5°	1405.6	986.8	140.3	74.3	63.3	58.6	54.4	52.3	49.7	47.1	46.6
54°	1553.2	1104.6	139.3	69.1	58.6	55.5	51.8	50.8	47.6	44.0	42.9
55°	1619.7	1173.2	142.9	64.9	55.5	53.4	50.3	49.2	46.1	41.9	41.4
57.5°	1674.7	1199.9	140.8	53.9	50.3	49.7	47.1	45.5	41.9	36.1	35.1
60°	1348.0	907.2	101.0	47.6	46.1	45.0	42.9	41.9	37.2	30.9	30.4
62.5°	851.7	521.9	64.4	41.9	40.3	38.7	36.1	35.1	30.9	24.6	23.0
65°	362.8	216.2	43.5	37.2	34.6	31.9	29.8	28.3	24.6	18.3	17.8
67.5°	94.2	77.0	36.1	32.5	28.8	25.1	23.6	20.9	16.8	12.6	12.0
70°	42.4	38.7	30.4	27.2	23.0	19.4	17.3	14.7	11.0	8.4	7.9
72.5°	25.1	24.6	23.0	20.4	17.3	14.7	12.6	9.9	7.3	4.7	4.7
75°	15.7	15.2	15.7	14.1	12.0	11.0	9.4	6.8	4.2	2.1	2.1
77.5°	9.4	9.4	9.4	8.9	8.4	8.4	6.8	4.2	2.1	0.5	0.5
80°	7.3	7.3	7.9	7.3	7.3	7.3	5.8	3.1	1.0	0.0	0.0
82.5°	7.3	7.9	8.9	8.4	7.3	6.3	5.2	3.1	1.0	0.0	0.0
85°	2.1	1.6	2.6	3.7	5.2	4.7	3.7	2.6	1.0	0.0	0.0
87.5°	1.0	1.0	1.0	1.0	0.5	0.5	0.5	0.5	0.5	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)