

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: P526433

Luminaire Tested: **GALN-SA1B-827-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526433
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1B-827-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS AND AUTOMOTIVE FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3157 lumens
Efficiency: N/A
Efficacy: 71.8 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

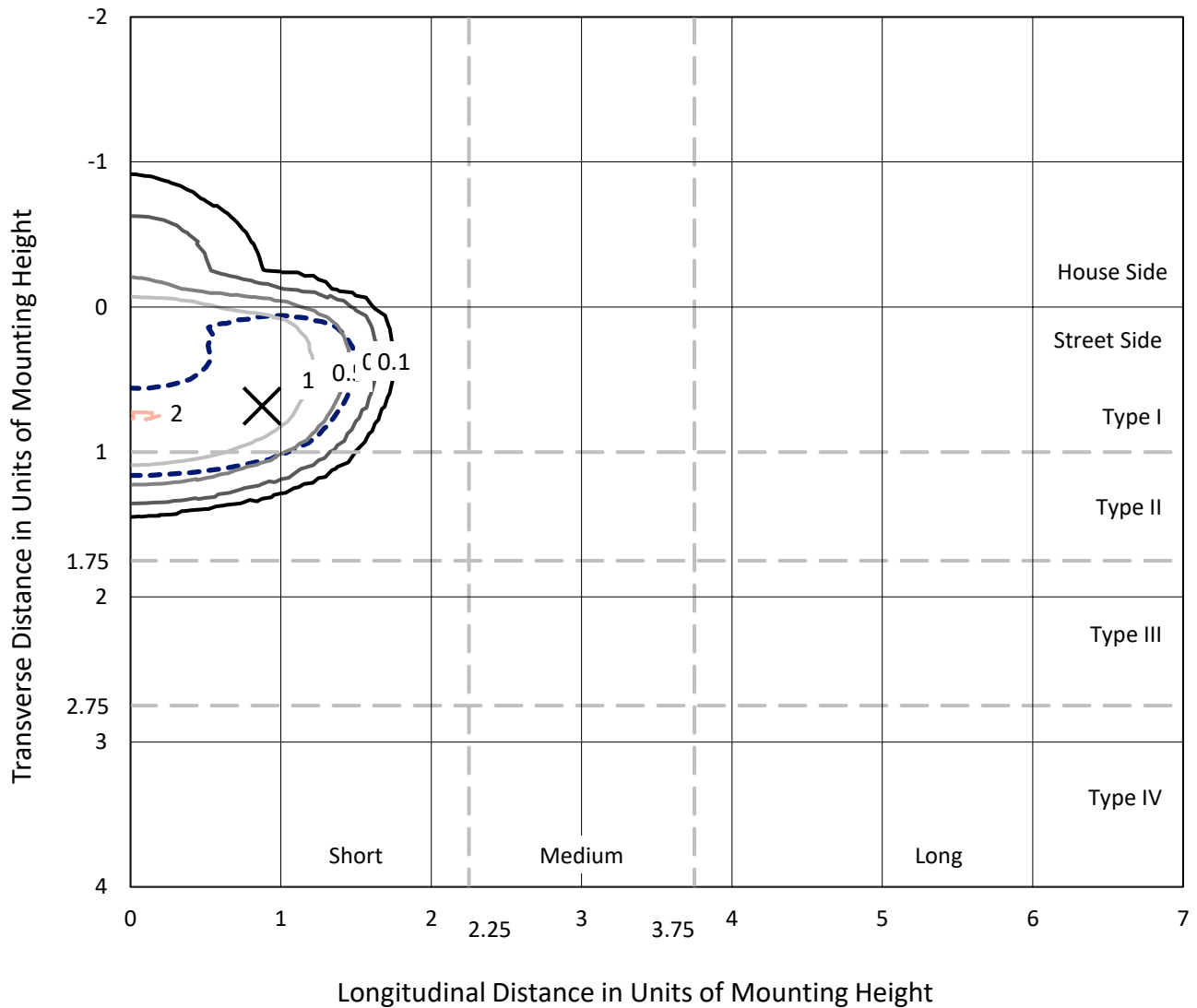
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

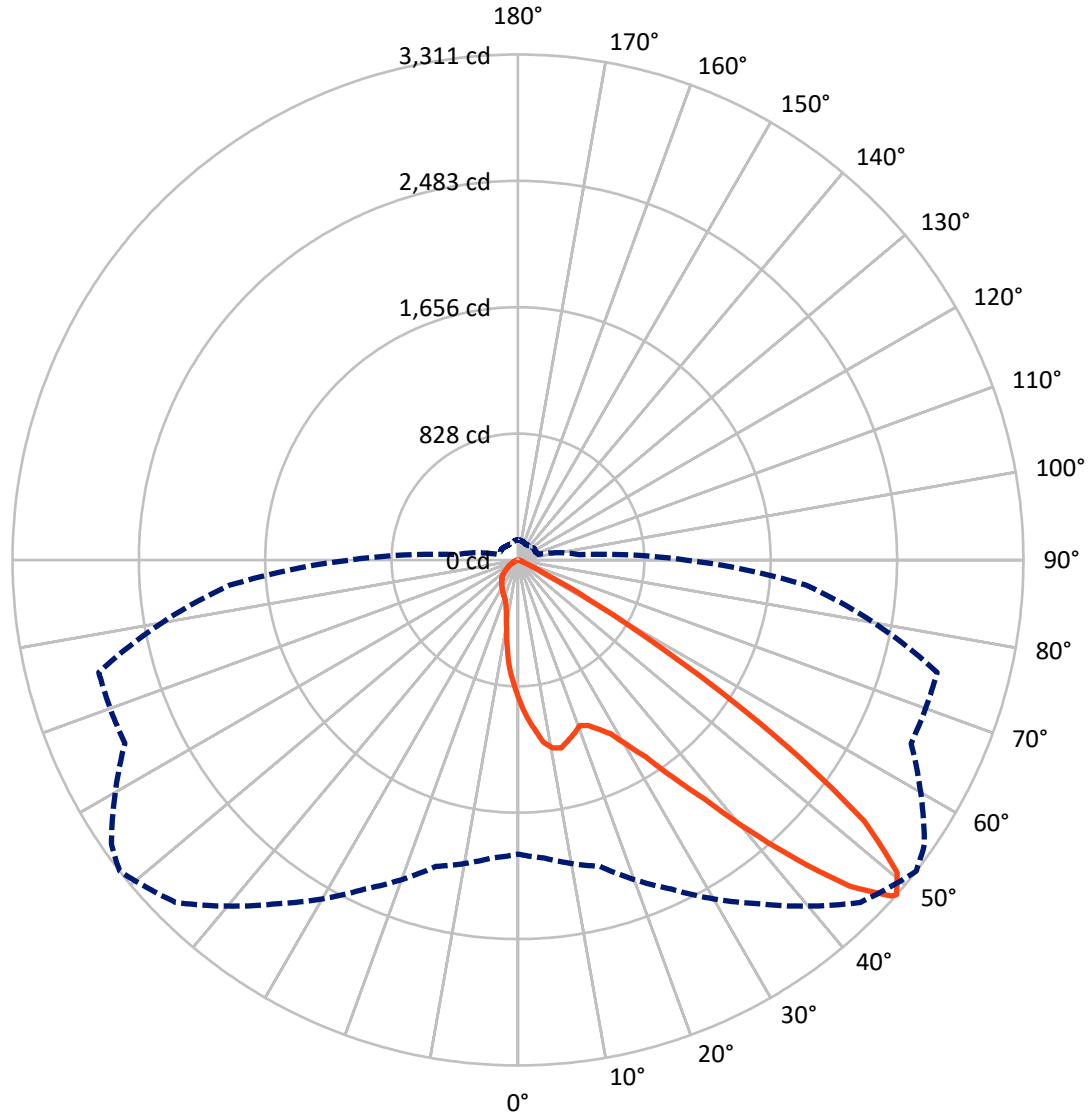
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 48-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	384.4	0.0	384.4
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	2772.6	0.0	2772.6
	% Fixture	87.8	0.0	87.8
Total	Lumens	3157.0	0.0	3157.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.4	2.6
10°-20°	218.1	6.9
20°-30°	372.3	11.8
30°-40°	685.7	21.7
40°-50°	1064.8	33.7
50°-60°	640.9	20.3
60°-70°	74.1	2.3
70°-80°	14.3	0.5
80°-90°	3.3	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°	3157.0	100.0
0°-180°	3157.0	100.0

Coefficient of Utilization



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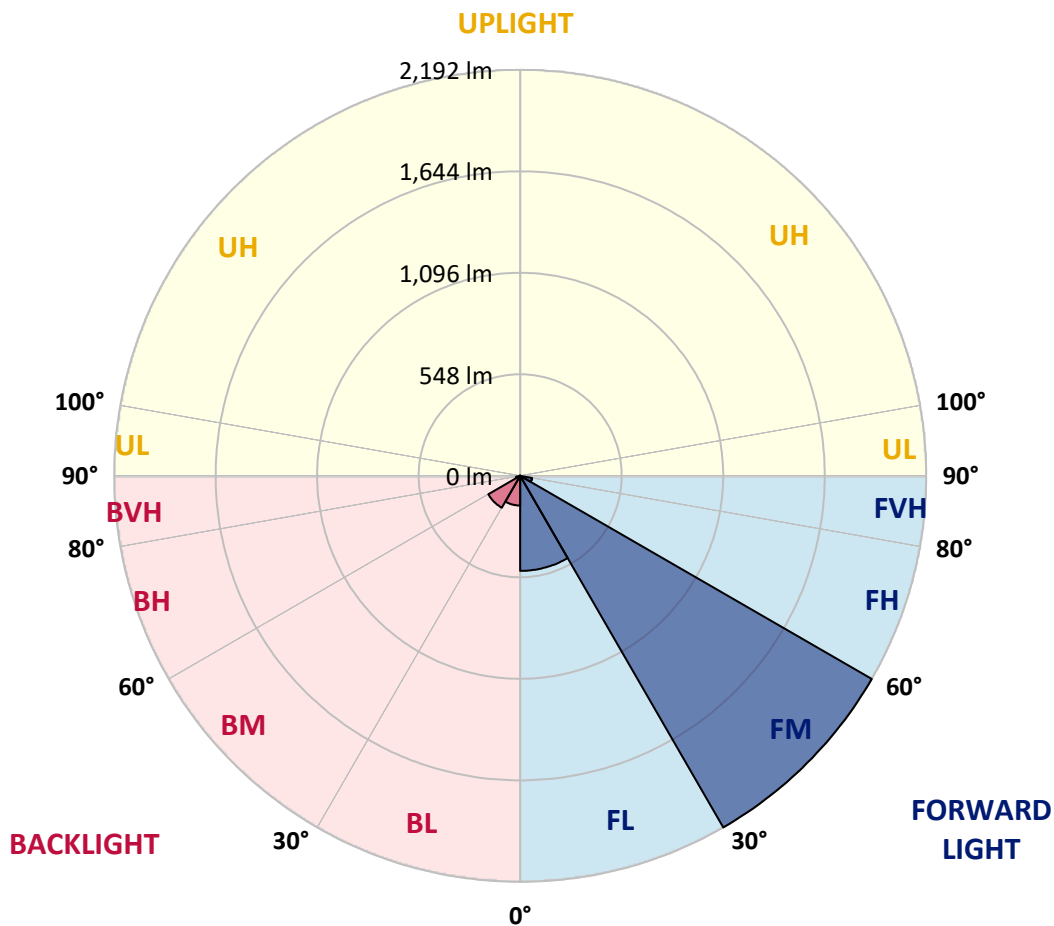
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	513.3	16.3			
FM (30°-60°)	2192.5	69.4			
FH (60°-80°)	65.3	2.1			G0/660
FVH (80°-90°)	1.6	0.1			G0/10
BL (0°-30°)	160.6	5.1	B1/500		
BM (30°-60°)	198.9	6.3	B0/220		
BH (60°-80°)	23.2	0.7	B0/110		G0/110
BVH (80°-90°)	1.7	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°	52°	55°	65°	75°	85°
0°	911.7	911.7	911.7	911.7	911.7	911.7	911.7	911.7	911.7	911.7	911.7
2.5°	1105.0	1079.7	1082.0	1065.4	1055.7	1040.1	1018.9	1014.8	991.8	960.5	928.7
5°	1204.4	1198.4	1206.2	1182.3	1183.2	1157.4	1107.7	1108.7	1055.7	1004.7	955.4
7.5°	1210.8	1197.0	1204.8	1226.0	1238.4	1233.8	1205.8	1181.4	1131.2	1056.2	984.4
10°	1084.3	1110.5	1118.8	1153.8	1203.5	1255.9	1252.7	1254.1	1212.2	1114.2	1009.3
12.5°	1008.3	990.8	1018.9	1040.1	1115.1	1216.8	1263.3	1273.4	1276.6	1170.3	1034.1
15°	973.8	973.8	978.4	984.4	1038.7	1132.6	1227.4	1256.9	1326.3	1244.0	1073.2
17.5°	995.4	994.5	1001.0	988.5	1008.8	1081.0	1194.3	1227.9	1382.0	1316.2	1104.1
20°	1061.3	1064.5	1060.3	1024.4	1025.8	1080.1	1157.4	1210.4	1419.8	1378.8	1145.0
22.5°	1152.8	1154.7	1131.2	1092.1	1080.6	1107.3	1178.6	1219.1	1450.1	1453.8	1157.4
25°	1258.7	1251.3	1246.7	1191.5	1156.5	1179.5	1226.5	1249.9	1469.0	1518.3	1192.9
27.5°	1405.5	1390.8	1362.7	1313.5	1287.7	1255.0	1288.6	1327.3	1522.9	1608.5	1231.5
30°	1622.3	1609.4	1554.6	1491.1	1423.5	1391.2	1401.8	1423.0	1620.0	1712.9	1282.6
32.5°	1948.6	1921.4	1842.2	1721.2	1629.2	1540.3	1537.6	1560.1	1706.9	1857.4	1343.4
35°	2308.0	2299.7	2183.3	2058.5	1880.4	1743.3	1745.6	1757.6	1873.5	2047.0	1423.0
37.5°	2546.8	2592.4	2518.3	2384.4	2234.8	2038.8	1989.1	1993.2	2102.3	2271.6	1566.6
40°	2731.4	2692.7	2701.5	2670.2	2568.0	2434.5	2324.6	2302.9	2366.9	2520.1	1709.2
42.5°	2650.8	2652.7	2706.5	2780.6	2805.9	2796.3	2684.0	2643.0	2593.3	2723.6	1845.0
45°	2423.5	2470.9	2540.9	2736.9	2909.0	3070.6	3048.5	2980.4	2749.8	2884.6	1923.2
47.5°	2060.9	2059.0	2173.6	2428.6	2811.0	3189.3	3289.6	3241.8	2860.7	2866.7	1907.1
48°	1926.9	1960.1	2078.3	2378.4	2748.9	3171.8	3311.3	3251.0	2841.8	2842.8	1893.3
50°	1424.4	1418.4	1565.7	1933.8	2455.3	2980.4	3220.1	3267.1	2841.4	2721.7	1796.7
52.5°	752.5	778.2	885.5	1215.9	1735.9	2439.1	2840.5	2913.6	2741.1	2523.8	1657.7
55°	319.9	289.0	371.4	549.0	976.6	1629.6	2083.9	2246.8	2317.7	2233.4	1450.1
57.5°	114.1	124.7	143.6	206.6	410.5	891.9	1242.6	1369.1	1605.7	1638.8	988.1
60°	73.2	74.6	80.5	94.8	154.2	343.8	589.5	690.3	797.6	823.3	461.1
62.5°	56.6	57.1	59.8	62.1	73.2	133.5	221.4	262.3	272.4	234.3	121.0
65°	47.4	47.9	48.8	48.8	52.0	62.6	77.3	85.1	82.8	81.9	68.6
67.5°	36.4	37.3	39.1	39.1	41.0	38.2	42.8	45.6	51.5	62.6	58.4
70°	28.5	29.0	30.4	31.3	31.3	27.6	30.8	33.6	37.7	46.5	46.0
72.5°	22.1	23.0	23.9	23.9	22.6	18.9	22.1	24.4	27.2	32.2	31.3
75°	17.0	17.0	17.5	14.3	11.0	9.7	13.3	16.1	20.2	21.2	17.5
77.5°	4.6	5.1	4.6	4.1	4.6	6.9	8.7	10.1	12.9	12.9	11.5
80°	0.0	0.5	1.4	2.8	4.6	6.4	7.8	8.7	10.1	11.0	10.6
82.5°	0.0	0.5	1.4	2.8	4.1	5.1	6.9	7.4	8.3	9.7	9.7
85°	0.0	0.5	0.9	1.8	2.8	3.2	3.2	2.8	2.8	2.3	1.8
87.5°	0.0	0.0	0.5	0.9	0.9	1.4	1.4	1.4	1.4	1.4	1.4
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°	911.7	911.7	911.7	911.7	911.7	911.7	911.7	911.7	911.7	911.7	911.7
2.5°	916.3	902.0	880.4	846.3	813.7	792.5	772.2	749.7	737.3	736.3	729.4
5°	927.3	895.1	843.6	785.1	722.5	668.7	614.4	579.0	547.2	529.7	526.5
7.5°	933.3	891.4	808.1	710.1	603.3	515.4	454.7	410.1	392.6	379.7	379.2
10°	945.7	885.0	755.2	610.7	478.6	389.8	347.9	327.7	318.0	314.3	308.8
12.5°	954.9	873.0	700.9	508.5	378.3	323.1	304.7	300.1	300.5	302.4	300.1
15°	967.8	862.4	627.7	417.4	317.5	290.9	290.9	291.8	298.2	299.1	298.7
17.5°	966.9	841.7	552.3	343.8	280.7	277.1	278.4	287.2	291.3	292.7	289.5
20°	978.0	822.4	474.5	293.6	260.0	265.5	274.7	277.1	282.1	283.0	279.4
22.5°	974.7	774.1	402.2	254.0	244.4	255.0	264.2	266.9	265.5	262.8	262.3
25°	968.8	732.7	336.0	227.8	232.9	244.4	253.1	248.1	245.3	245.8	246.2
27.5°	958.2	680.2	281.2	209.4	217.2	234.3	233.8	231.9	234.7	232.4	234.7
30°	956.3	627.7	236.1	192.8	205.7	218.1	219.1	222.3	225.5	221.4	225.5
32.5°	959.1	570.2	203.9	182.7	198.8	199.3	209.4	212.6	210.3	201.1	202.0
35°	980.3	526.0	180.4	177.2	187.8	188.2	197.9	193.8	183.6	178.1	181.3
37.5°	1024.9	489.2	169.4	172.1	173.0	179.0	179.5	171.2	172.1	171.7	173.5
40°	1082.0	461.1	161.5	167.5	166.6	170.7	154.2	158.8	162.9	164.3	165.2
42.5°	1121.1	440.9	156.5	160.2	158.3	151.0	141.7	146.3	149.6	154.6	155.6
45°	1138.6	424.8	150.5	147.3	147.3	133.9	130.2	131.2	138.5	144.0	143.1
47.5°	1110.0	409.1	139.9	130.2	133.5	122.4	118.3	118.3	126.1	133.0	131.6
48°	1099.0	402.7	140.4	126.6	128.9	120.6	116.4	115.5	124.3	130.7	130.7
50°	1044.2	378.8	128.4	116.4	111.8	110.9	108.2	109.1	114.6	120.6	120.6
52.5°	937.5	327.2	108.6	99.9	91.6	97.1	98.5	96.6	99.4	104.9	104.5
55°	782.4	251.3	87.0	82.8	76.4	82.4	85.1	82.8	80.1	84.2	84.2
57.5°	501.2	135.3	69.5	70.4	64.0	70.0	72.3	66.7	61.7	64.9	64.4
60°	226.0	81.0	57.1	55.7	51.5	58.4	62.1	55.7	48.8	51.1	53.4
62.5°	84.7	57.5	43.3	42.3	41.4	47.9	49.7	44.6	37.7	39.1	39.6
65°	62.1	50.6	34.5	31.3	33.1	37.7	36.8	31.8	27.2	27.2	28.1
67.5°	52.9	44.2	28.1	24.4	24.4	24.9	23.0	20.2	18.9	19.8	20.7
70°	41.4	35.0	22.1	18.9	17.0	15.2	13.3	12.9	11.5	12.9	12.4
72.5°	26.7	23.5	17.0	14.3	12.9	10.6	8.7	8.3	6.9	6.4	6.4
75°	14.3	14.3	13.3	11.5	10.1	8.3	6.9	5.5	3.7	2.8	2.8
77.5°	10.1	11.0	12.0	11.0	9.2	6.9	5.5	3.7	1.8	0.9	0.9
80°	9.7	11.0	12.0	10.6	9.2	6.9	5.1	2.8	1.4	0.5	0.5
82.5°	8.7	10.1	11.0	9.7	8.3	6.0	4.6	2.8	1.4	0.5	0.5
85°	1.8	2.3	2.8	2.8	3.2	4.1	3.2	2.3	0.9	0.5	0.5
87.5°	1.4	1.4	1.4	1.4	1.4	1.4	0.9	0.9	0.5	0.5	0.5
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)