

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: P526329

Luminaire Tested: **GALN-SA1B-735-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526329
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-735-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 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: 4001 lumens
Efficiency: N/A
Efficacy: 90.9 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

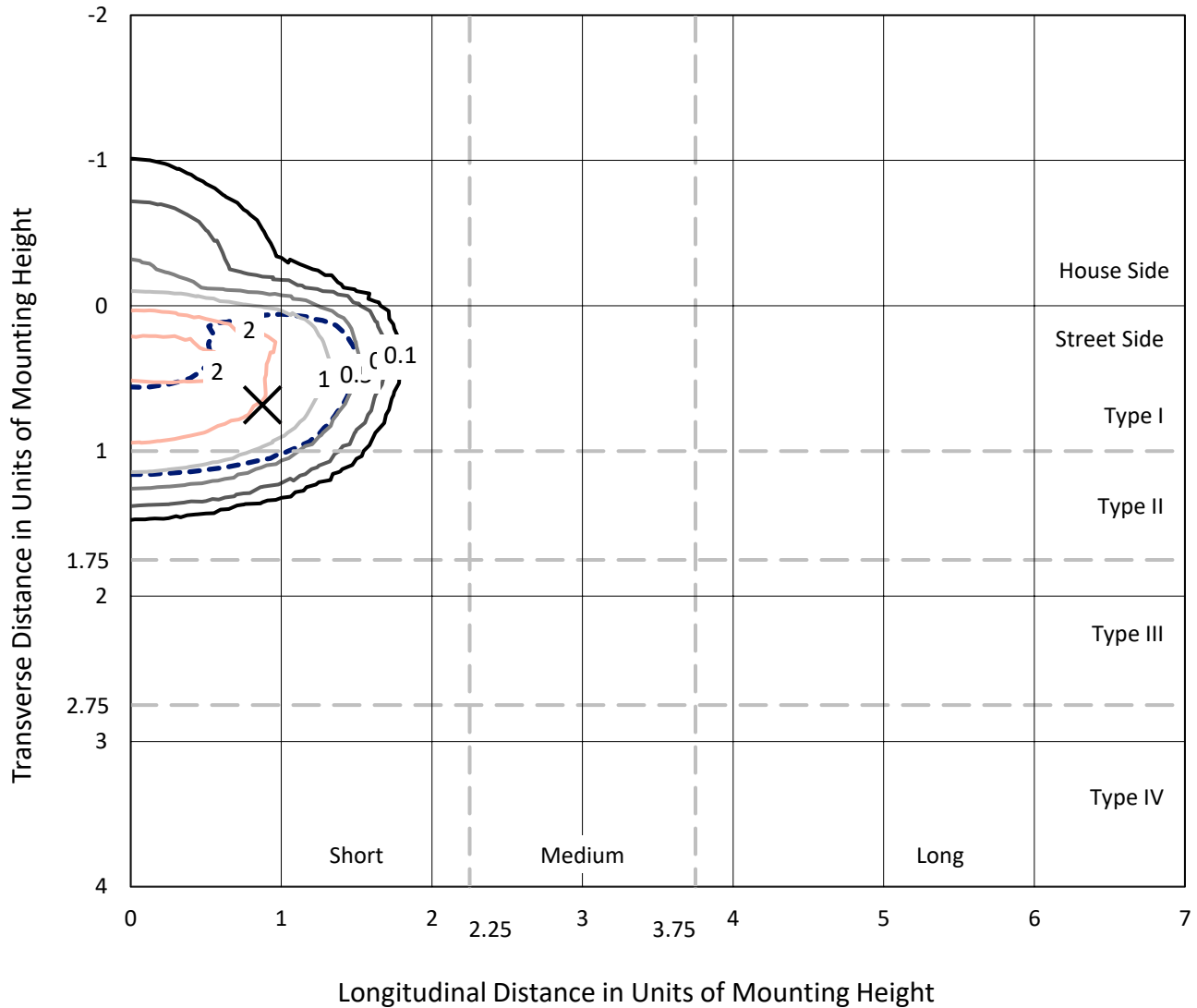
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P526329
 CATALOG NUMBER: GALN-SA1B-735-U-AFL-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

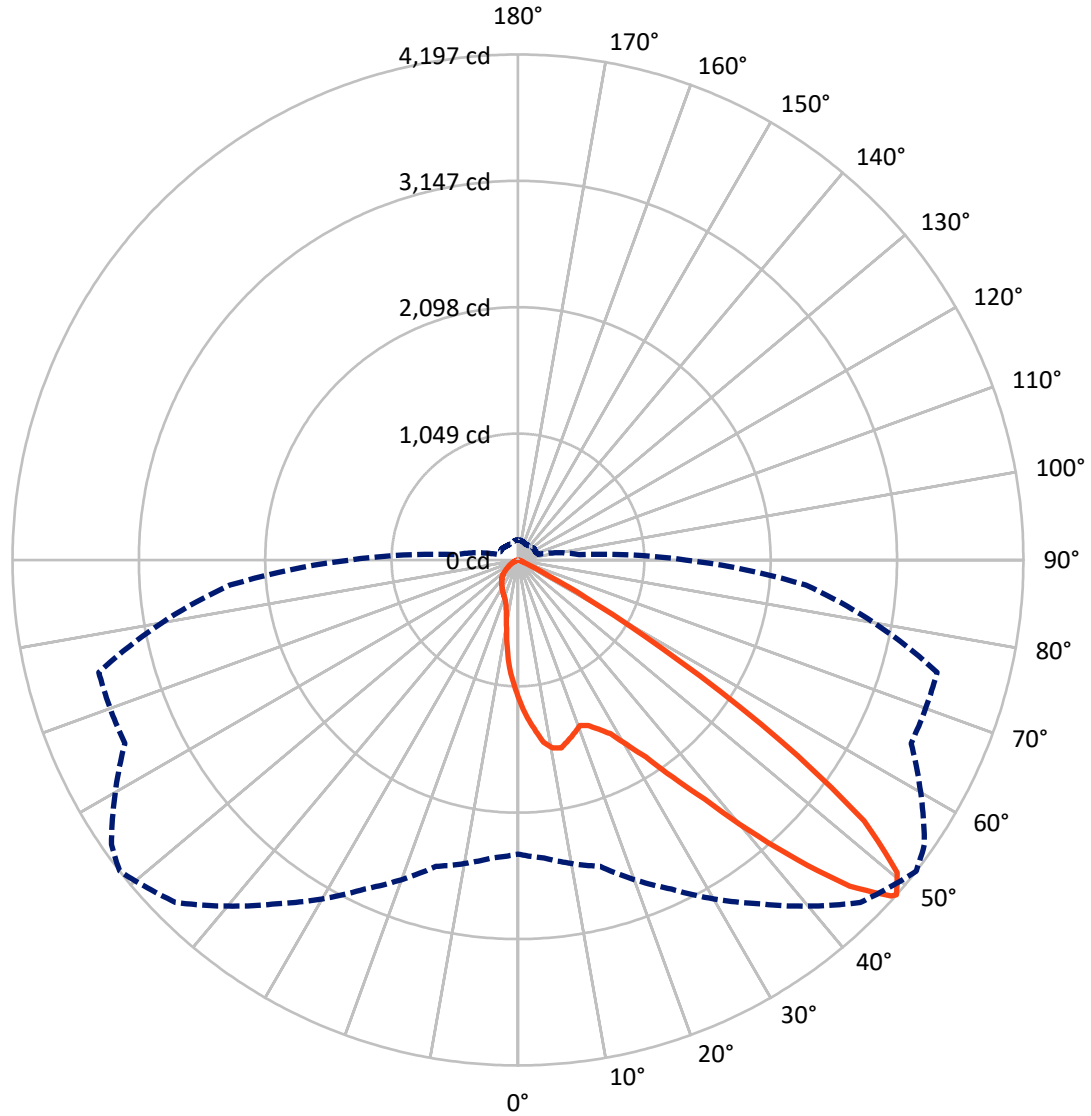
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
 Type II - Short - N/A

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CATALOG NUMBER: GALN-SA1B-735-U-AFL-GRSBK

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	487.2	0.0	487.2
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	3513.8	0.0	3513.8
	% Fixture	87.8	0.0	87.8
Total	Lumens	4001.0	0.0	4001.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.8	2.6
10°-20°	276.4	6.9
20°-30°	471.9	11.8
30°-40°	869.0	21.7
40°-50°	1349.5	33.7
50°-60°	812.2	20.3
60°-70°	93.9	2.3
70°-80°	18.2	0.5
80°-90°	4.2	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°	4001.0	100.0
0°-180°	4001.0	100.0

Coefficient of Utilization

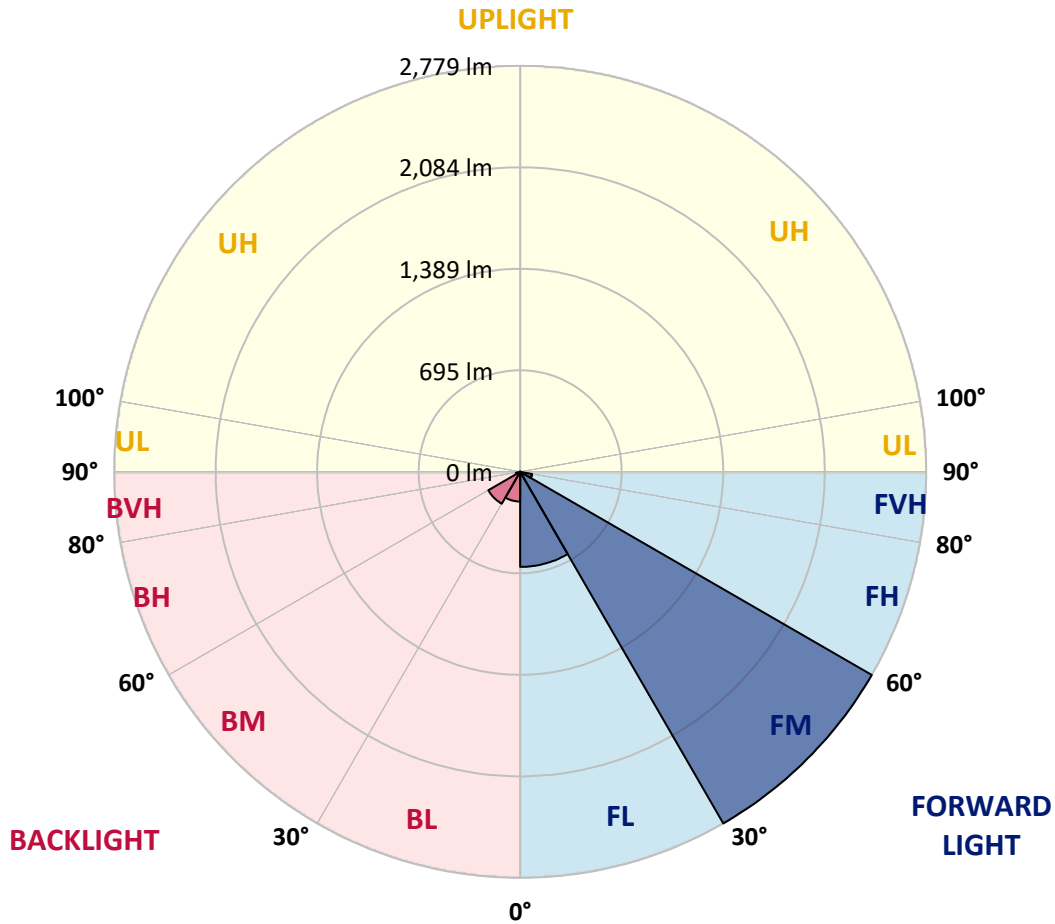


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	650.5	16.3			
FM (30°-60°)	2778.6	69.4			
FH (60°-80°)	82.7	2.1			G0/660
FVH (80°-90°)	2.0	0.0			G0/10
BL (0°-30°)	203.5	5.1	B1/500		
BM (30°-60°)	252.0	6.3	B1/1000		
BH (60°-80°)	29.4	0.7	B0/110		G0/110
BVH (80°-90°)	2.2	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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CATALOG NUMBER: GALN-SA1B-735-U-AFL-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	1155.4	1155.4	1155.4	1155.4	1155.4	1155.4	1155.4	1155.4	1155.4	1155.4	1155.4
2.5°	1400.4	1368.3	1371.2	1350.2	1338.0	1318.1	1291.3	1286.1	1256.9	1217.2	1177.0
5°	1526.4	1518.8	1528.7	1498.4	1499.5	1466.9	1403.9	1405.1	1338.0	1273.2	1210.8
7.5°	1534.5	1517.0	1527.0	1553.8	1569.5	1563.7	1528.1	1497.2	1433.6	1338.6	1247.6
10°	1374.1	1407.4	1417.9	1462.2	1525.2	1591.7	1587.6	1589.4	1536.3	1412.1	1279.1
12.5°	1277.9	1255.7	1291.3	1318.1	1413.2	1542.1	1601.0	1613.9	1617.9	1483.2	1310.6
15°	1234.2	1234.2	1240.0	1247.6	1316.4	1435.4	1555.5	1592.9	1680.9	1576.5	1360.1
17.5°	1261.6	1260.4	1268.6	1252.8	1278.5	1370.1	1513.5	1556.1	1751.5	1668.1	1399.2
20°	1345.0	1349.1	1343.8	1298.3	1300.1	1368.9	1466.9	1534.0	1799.3	1747.4	1451.1
22.5°	1461.0	1463.4	1433.6	1384.1	1369.5	1403.3	1493.7	1545.0	1837.8	1842.5	1466.9
25°	1595.2	1585.9	1580.0	1510.0	1465.7	1494.9	1554.4	1584.1	1861.7	1924.1	1511.8
27.5°	1781.3	1762.6	1727.0	1664.6	1631.9	1590.5	1633.1	1682.1	1930.0	2038.5	1560.8
30°	2056.0	2039.6	1970.2	1889.7	1804.0	1763.2	1776.6	1803.4	2053.0	2170.9	1625.5
32.5°	2469.5	2435.1	2334.8	2181.4	2064.7	1952.1	1948.6	1977.2	2163.3	2354.0	1702.5
35°	2925.0	2914.5	2766.9	2608.9	2383.2	2209.4	2212.3	2227.4	2374.4	2594.3	1803.4
37.5°	3227.7	3285.5	3191.6	3021.8	2832.3	2583.8	2520.8	2526.1	2664.3	2878.9	1985.4
40°	3461.6	3412.6	3423.7	3384.0	3254.5	3085.4	2946.0	2918.6	2999.7	3193.9	2166.2
42.5°	3359.5	3361.9	3430.1	3524.0	3556.1	3543.8	3401.5	3349.6	3286.6	3451.7	2338.3
45°	3071.4	3131.5	3220.1	3468.6	3686.7	3891.5	3863.5	3777.1	3484.9	3655.8	2437.4
47.5°	2611.8	2609.5	2754.7	3077.8	3562.5	4041.9	4169.1	4108.4	3625.5	3633.1	2417.0
48°	2442.1	2484.1	2634.0	3014.2	3483.8	4019.8	4196.5	4120.1	3601.6	3602.7	2399.5
50°	1805.2	1797.6	1984.2	2450.8	3111.6	3777.1	4081.0	4140.5	3601.0	3449.4	2277.0
52.5°	953.6	986.3	1122.2	1541.0	2200.0	3091.2	3599.8	3692.6	3473.8	3198.6	2100.9
55°	405.4	366.3	470.7	695.8	1237.7	2065.3	2641.0	2847.4	2937.3	2830.5	1837.8
57.5°	144.6	158.1	182.0	261.9	520.3	1130.3	1574.8	1735.2	2035.0	2077.0	1252.2
60°	92.7	94.5	102.1	120.1	195.4	435.7	747.1	874.9	1010.8	1043.4	584.4
62.5°	71.7	72.3	75.8	78.7	92.7	169.1	280.5	332.5	345.3	296.9	153.4
65°	60.1	60.7	61.8	61.8	65.9	79.3	98.0	107.9	105.0	103.8	86.9
67.5°	46.1	47.2	49.6	49.6	51.9	48.4	54.2	57.7	65.3	79.3	74.1
70°	36.2	36.7	38.5	39.7	39.7	35.0	39.1	42.6	47.8	58.9	58.3
72.5°	28.0	29.2	30.3	30.3	28.6	23.9	28.0	30.9	34.4	40.8	39.7
75°	21.6	21.6	22.2	18.1	14.0	12.2	16.9	20.4	25.7	26.8	22.2
77.5°	5.8	6.4	5.8	5.2	5.8	8.7	11.1	12.8	16.3	16.3	14.6
80°	0.0	0.6	1.7	3.5	5.8	8.2	9.9	11.1	12.8	14.0	13.4
82.5°	0.0	0.6	1.7	3.5	5.2	6.4	8.7	9.3	10.5	12.2	12.2
85°	0.0	0.6	1.2	2.3	3.5	4.1	4.1	3.5	3.5	2.9	2.3
87.5°	0.0	0.0	0.6	1.2	1.2	1.7	1.7	1.7	1.7	1.7	1.7
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°	1155.4	1155.4	1155.4	1155.4	1155.4	1155.4	1155.4	1155.4	1155.4	1155.4	1155.4
2.5°	1161.3	1143.2	1115.8	1072.6	1031.2	1004.4	978.7	950.1	934.4	933.2	924.5
5°	1175.3	1134.4	1069.1	995.0	915.7	847.5	778.6	733.7	693.5	671.3	667.2
7.5°	1182.8	1129.8	1024.2	900.0	764.6	653.2	576.3	519.7	497.5	481.2	480.6
10°	1198.6	1121.6	957.1	774.0	606.6	494.0	440.9	415.3	403.0	398.4	391.4
12.5°	1210.2	1106.4	888.3	644.5	479.4	409.4	386.1	380.3	380.9	383.2	380.3
15°	1226.6	1093.0	795.6	529.0	402.4	368.6	368.6	369.8	377.9	379.1	378.5
17.5°	1225.4	1066.8	699.9	435.7	355.8	351.1	352.9	363.9	369.2	370.9	366.9
20°	1239.4	1042.3	601.3	372.1	329.5	336.5	348.2	351.1	357.5	358.7	354.0
22.5°	1235.3	981.0	509.8	322.0	309.7	323.1	334.8	338.3	336.5	333.0	332.5
25°	1227.7	928.5	425.8	288.7	295.1	309.7	320.8	314.4	310.9	311.5	312.0
27.5°	1214.3	862.0	356.4	265.4	275.3	296.9	296.3	294.0	297.5	294.5	297.5
30°	1212.0	795.6	299.2	244.4	260.7	276.5	277.6	281.7	285.8	280.5	285.8
32.5°	1215.5	722.6	258.4	231.6	252.0	252.5	265.4	269.5	266.5	254.9	256.0
35°	1242.3	666.7	228.6	224.6	238.0	238.6	250.8	245.5	232.7	225.7	229.8
37.5°	1298.9	620.0	214.6	218.1	219.3	226.9	227.5	217.0	218.1	217.6	219.9
40°	1371.2	584.4	204.7	212.3	211.1	216.4	195.4	201.2	206.5	208.2	209.4
42.5°	1420.8	558.8	198.3	203.0	200.6	191.3	179.6	185.5	189.6	196.0	197.1
45°	1443.0	538.3	190.7	186.6	186.6	169.7	165.1	166.2	175.6	182.6	181.4
47.5°	1406.8	518.5	177.3	165.1	169.1	155.1	149.9	149.9	159.8	168.6	166.8
48°	1392.8	510.3	177.9	160.4	163.3	152.8	147.6	146.4	157.5	165.6	165.6
50°	1323.4	480.0	162.7	147.6	141.7	140.6	137.1	138.2	145.2	152.8	152.8
52.5°	1188.1	414.7	137.6	126.6	116.1	123.1	124.8	122.5	126.0	133.0	132.4
55°	991.5	318.5	110.2	105.0	96.8	104.4	107.9	105.0	101.5	106.7	106.7
57.5°	635.2	171.5	88.1	89.2	81.1	88.7	91.6	84.6	78.2	82.2	81.7
60°	286.4	102.7	72.3	70.6	65.3	74.1	78.7	70.6	61.8	64.7	67.7
62.5°	107.3	72.9	54.8	53.7	52.5	60.7	63.0	56.6	47.8	49.6	50.2
65°	78.7	64.2	43.7	39.7	42.0	47.8	46.7	40.2	34.4	34.4	35.6
67.5°	67.1	56.0	35.6	30.9	30.9	31.5	29.2	25.7	23.9	25.1	26.2
70°	52.5	44.3	28.0	23.9	21.6	19.2	16.9	16.3	14.6	16.3	15.7
72.5°	33.8	29.7	21.6	18.1	16.3	13.4	11.1	10.5	8.7	8.2	8.2
75°	18.1	18.1	16.9	14.6	12.8	10.5	8.7	7.0	4.7	3.5	3.5
77.5°	12.8	14.0	15.2	14.0	11.7	8.7	7.0	4.7	2.3	1.2	1.2
80°	12.2	14.0	15.2	13.4	11.7	8.7	6.4	3.5	1.7	0.6	0.6
82.5°	11.1	12.8	14.0	12.2	10.5	7.6	5.8	3.5	1.7	0.6	0.6
85°	2.3	2.9	3.5	3.5	4.1	5.2	4.1	2.9	1.2	0.6	0.6
87.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.2	1.2	0.6	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

(END OF REPORT)