

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: P450352

Luminaire Tested: **GALN-SA1A-827-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450352
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1A-827-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2543 lumens
Efficiency: N/A
Efficacy: 77.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G1

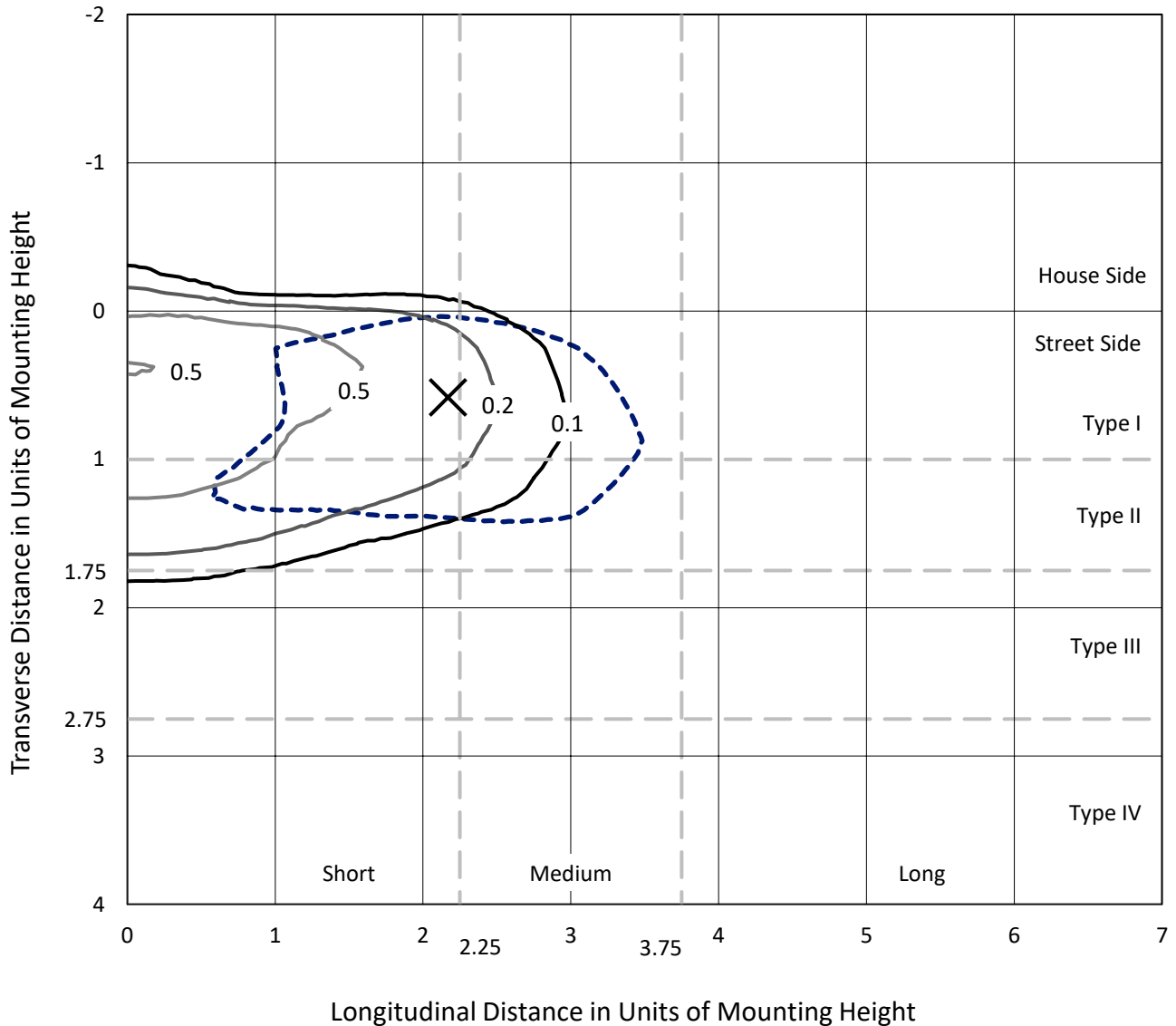
Input Watts (W): 33
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P450352
 CATALOG NUMBER: GALN-SA1A-827-U-T2-HSS

Iso-Footcandle Lines of Horizontal Illumination

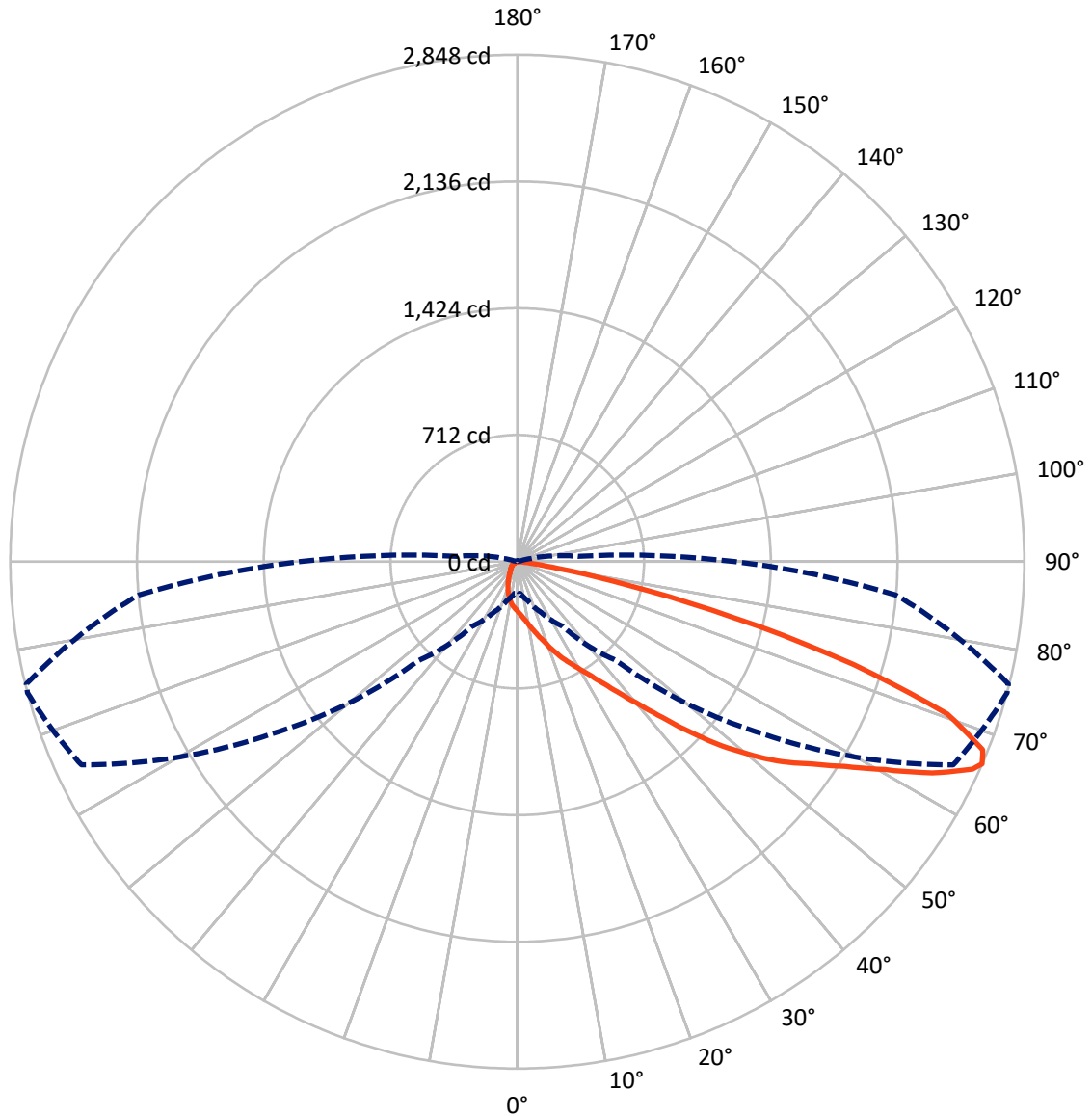
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.8 fc
 Type II - Short - N/A

REPORT NUMBER: P450352
CATALOG NUMBER: GALN-SA1A-827-U-T2-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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CATALOG NUMBER: GALN-SA1A-827-U-T2-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	157.0	0.0	157.0
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	2386.0	0.0	2386.0
	% Fixture	93.8	0.0	93.8
Total	Lumens	2543.0	0.0	2543.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.8	1.1
10°-20°	78.9	3.1
20°-30°	136.3	5.4
30°-40°	245.9	9.7
40°-50°	444.2	17.5
50°-60°	692.5	27.2
60°-70°	657.9	25.9
70°-80°	246.6	9.7
80°-90°	13.9	0.5
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°	2543.0	100.0
0°-180°	2543.0	100.0



REPORT NUMBER: P450352

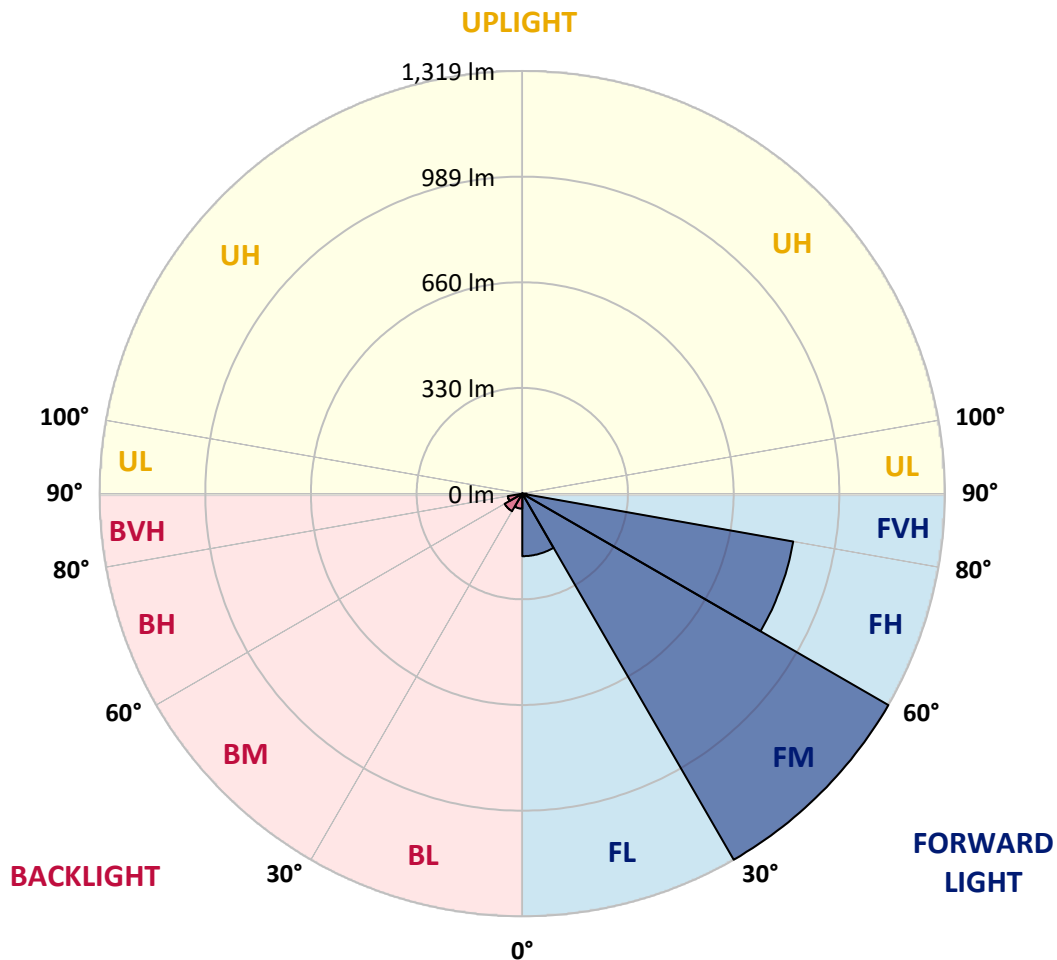
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	195.2	7.7			
FM (30°-60°)	1319.1	51.9			
FH (60°-80°)	858.6	33.8			G1/1800
FVH (80°-90°)	13.2	0.5			G1/100
BL (0°-30°)	46.9	1.8	B0/110		
BM (30°-60°)	63.5	2.5	B0/220		
BH (60°-80°)	45.8	1.8	B0/110		G0/110
BVH (80°-90°)	0.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type II Short





REPORT NUMBER: P450352
 CATALOG NUMBER: GALN-SA1A-827-U-T2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	278.1	278.1	278.1	278.1	278.1	278.1	278.1	278.1	278.1	278.1	278.1
2.5°	332.3	328.1	329.4	327.6	323.2	316.8	311.2	303.1	295.0	293.7	284.7
5°	376.1	374.9	373.4	368.0	365.0	355.2	343.5	329.6	312.9	309.9	293.5
7.5°	406.0	405.4	406.2	403.3	400.7	391.9	379.5	360.5	334.5	332.8	305.6
10°	415.7	417.2	420.1	424.6	428.7	425.9	416.5	392.8	362.5	357.6	319.3
12.5°	410.1	411.8	418.6	430.6	443.9	451.7	447.9	430.6	392.2	388.3	334.7
15°	395.6	397.7	407.3	425.9	449.8	471.6	481.0	468.6	426.8	420.4	353.3
17.5°	374.2	377.2	390.9	415.6	448.3	485.9	512.4	508.3	463.7	457.7	373.6
20°	358.0	360.3	371.9	400.1	441.9	493.8	542.3	553.9	509.2	498.9	397.5
22.5°	368.7	369.5	373.4	390.4	430.4	495.8	568.6	601.5	557.5	548.3	422.3
25°	421.2	413.7	409.7	406.0	428.0	494.0	592.5	651.2	605.7	595.9	447.0
27.5°	503.9	500.5	480.6	453.9	448.8	496.4	608.3	698.2	651.0	640.4	471.0
30°	594.0	588.2	575.9	536.8	497.5	513.7	619.8	743.9	704.6	690.6	493.0
32.5°	676.7	680.5	662.3	622.0	576.5	550.6	634.6	793.7	766.1	748.8	518.6
35°	773.2	780.7	752.7	714.2	660.9	617.1	663.6	849.9	844.1	822.3	558.1
37.5°	871.2	875.7	858.6	804.4	756.5	701.7	718.1	919.3	940.2	921.6	605.3
40°	953.5	959.7	947.1	899.0	847.8	799.7	797.3	994.9	1054.5	1035.3	675.6
42.5°	1016.5	1021.2	1021.6	987.6	941.5	919.7	898.2	1091.3	1197.8	1175.6	757.2
45°	1096.0	1102.8	1098.9	1075.7	1041.3	1037.4	1026.3	1207.9	1369.3	1341.2	863.1
47.5°	1219.0	1223.5	1213.8	1186.5	1151.5	1157.7	1151.1	1338.6	1544.1	1520.1	972.7
50°	1304.4	1311.9	1325.8	1336.7	1311.3	1288.4	1268.9	1460.6	1710.2	1688.5	1084.8
52.5°	1303.5	1315.9	1359.9	1414.8	1470.2	1463.3	1407.1	1595.5	1868.7	1842.0	1190.1
55°	1215.6	1239.7	1304.4	1401.8	1555.4	1631.9	1606.4	1751.5	2005.6	1987.5	1312.1
57.5°	1034.4	1049.0	1138.9	1275.1	1507.8	1711.3	1837.3	1963.1	2169.7	2161.3	1501.6
60°	695.7	702.3	817.9	986.2	1283.7	1632.1	2006.5	2219.0	2371.9	2367.7	1723.0
62.5°	398.6	401.5	485.3	627.3	913.5	1383.2	2020.8	2534.7	2614.2	2616.5	1979.1
65°	214.5	216.1	283.7	368.2	555.8	985.9	1817.2	2707.7	2810.2	2814.5	2137.8
66°	185.2	178.1	225.8	313.8	442.3	784.7	1688.4	2701.5	2847.8	2843.1	2132.1
67.5°	140.8	147.2	180.3	241.2	327.7	557.9	1393.9	2581.3	2819.2	2804.5	2045.4
70°	100.8	103.4	128.4	172.1	223.2	306.1	890.7	2144.0	2562.3	2542.6	1782.0
72.5°	65.1	67.9	91.0	124.5	161.3	167.2	498.7	1549.0	1975.5	1972.7	1342.0
75°	46.4	49.1	60.2	89.1	121.3	103.4	240.1	1044.0	1255.9	1247.4	830.2
77.5°	33.7	35.0	40.2	58.3	86.7	74.1	111.3	557.5	625.2	654.7	366.9
80°	19.4	20.5	28.0	35.5	58.7	50.6	53.2	223.8	230.7	219.6	114.7
82.5°	9.6	10.9	16.7	24.3	36.7	34.0	24.4	67.3	71.1	69.2	29.0
85°	2.3	2.8	9.4	16.0	17.9	15.2	11.8	19.7	24.4	23.9	11.1
87.5°	0.2	0.4	3.4	2.8	3.0	5.1	4.1	5.1	7.9	7.3	3.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P450352
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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	278.1	278.1	278.1	278.1	278.1	278.1	278.1	278.1	278.1	278.1	278.1
2.5°	280.5	277.0	266.6	256.5	248.0	239.2	231.1	226.4	224.5	222.4	223.4
5°	284.5	275.8	255.0	236.9	219.2	204.2	192.2	184.5	180.7	180.1	179.2
7.5°	289.8	274.9	242.6	214.4	191.2	174.5	160.8	149.7	146.3	143.3	140.8
10°	296.2	273.2	227.1	190.7	166.0	145.0	126.9	113.8	107.0	105.1	106.4
12.5°	302.9	270.0	211.0	168.9	140.5	113.6	96.8	90.3	88.4	87.6	87.8
15°	309.7	266.1	194.1	147.8	111.9	90.6	82.9	81.2	80.5	80.1	79.7
17.5°	315.9	259.7	175.1	127.3	90.6	77.5	74.6	73.1	71.6	71.1	70.1
20°	323.2	252.3	157.9	104.4	76.7	70.1	66.8	63.9	61.7	60.2	60.0
22.5°	330.2	242.9	140.1	86.5	69.9	63.0	57.5	54.5	51.9	50.0	50.6
25°	333.9	231.5	124.1	75.4	63.7	55.8	49.8	46.1	43.2	42.3	42.1
27.5°	333.9	217.4	108.5	69.0	58.1	49.5	43.2	39.7	37.8	36.5	36.7
30°	331.3	201.8	94.0	64.1	53.2	43.8	38.0	34.8	33.3	32.3	32.2
32.5°	329.2	186.9	81.6	59.4	48.1	38.9	33.8	31.4	29.9	29.0	29.0
35°	332.4	174.1	72.0	54.7	43.4	35.2	30.6	28.4	26.9	26.1	25.9
37.5°	340.9	162.5	64.7	49.6	39.1	32.0	28.4	25.8	24.3	23.3	22.9
40°	361.8	155.9	59.2	44.9	35.0	29.3	25.8	23.3	21.4	20.5	20.3
42.5°	395.2	156.1	54.0	40.6	31.8	27.1	23.5	20.7	18.6	17.7	17.5
45°	445.6	163.2	49.8	36.5	29.0	24.6	21.1	18.1	16.2	15.2	15.2
47.5°	506.0	177.1	46.3	32.9	26.3	22.4	18.6	15.6	13.7	13.0	13.0
50°	571.4	195.2	42.7	29.1	24.1	19.9	16.0	13.5	12.0	11.5	11.5
52.5°	638.2	217.0	39.1	26.1	21.6	17.3	13.7	12.0	10.7	10.3	10.2
55°	725.8	244.8	35.4	22.9	19.0	14.9	12.2	10.5	9.0	8.5	8.3
57.5°	860.6	286.8	31.2	20.1	15.6	12.4	10.5	8.8	7.1	6.2	6.0
60°	1023.3	337.9	26.9	17.7	12.6	10.2	8.5	6.8	5.3	4.1	3.9
62.5°	1175.6	370.4	22.8	14.9	10.0	7.7	6.0	5.1	3.8	2.6	2.4
65°	1242.9	359.5	18.8	12.0	7.9	5.5	3.9	3.6	2.3	1.1	0.9
66°	1220.5	343.3	17.3	10.9	7.1	4.7	3.4	3.0	1.7	0.6	0.6
67.5°	1154.5	305.2	15.0	9.4	6.2	3.8	2.6	2.3	0.9	0.2	0.0
70°	989.2	246.9	11.8	7.0	4.5	2.6	1.5	1.1	0.6	0.0	0.0
72.5°	759.8	183.9	9.4	5.3	3.2	1.5	0.8	0.4	0.6	0.0	0.0
75°	465.6	105.1	7.3	3.9	2.1	0.9	0.6	0.0	0.6	0.2	0.0
77.5°	206.6	47.2	4.9	2.6	1.5	0.8	0.4	0.0	0.4	0.2	0.0
80°	52.3	15.4	2.8	1.9	1.1	0.6	0.2	0.0	0.4	0.4	0.2
82.5°	14.3	5.6	2.1	1.5	0.9	0.6	0.2	0.0	0.4	0.4	0.4
85°	5.6	2.6	1.9	1.5	1.1	0.6	0.2	0.0	0.4	0.4	0.4
87.5°	2.6	1.9	1.9	1.7	1.3	0.6	0.2	0.0	0.4	0.2	0.4
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)