

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: P450236

Luminaire Tested: **GALN-SA1A-730-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450236
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-730-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 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: 3150 lumens
Efficiency: N/A
Efficacy: 95.5 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

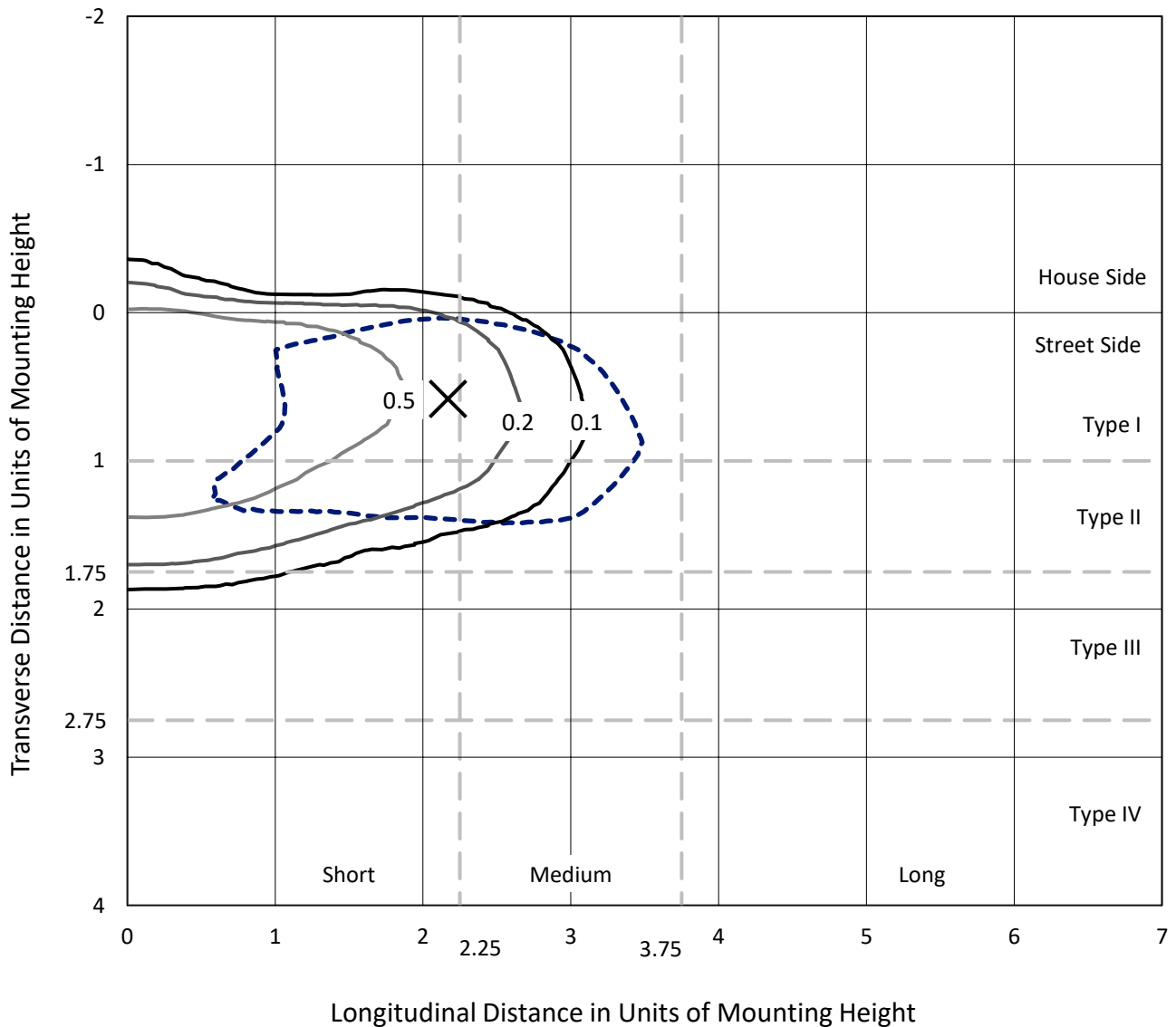
Input Watts (W): 33
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P450236
 CATALOG NUMBER: GALN-SA1A-730-U-T2-HSS

Iso-Footcandle Lines of Horizontal Illumination

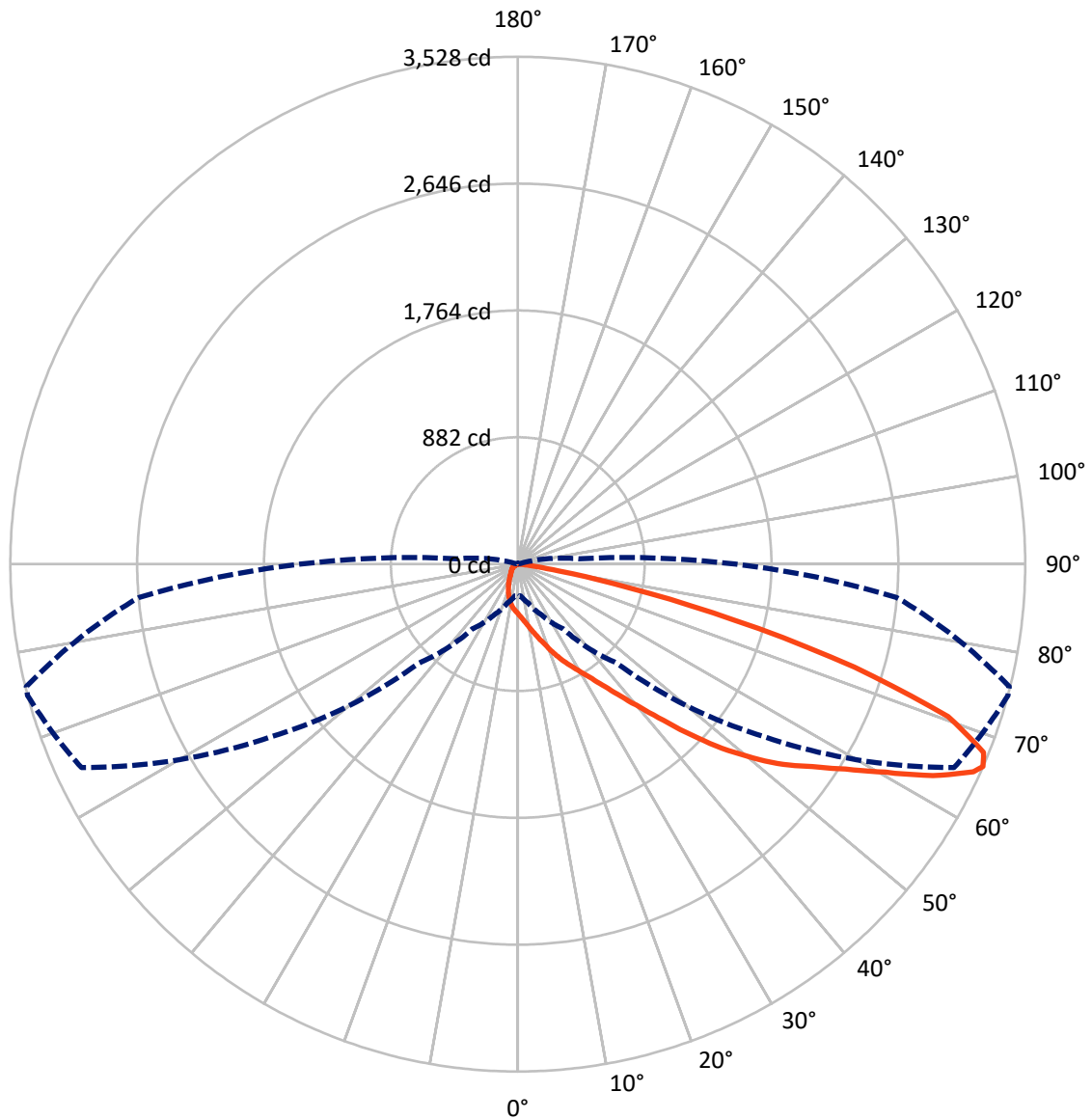
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.9 fc
 Type II - Short - N/A

REPORT NUMBER: P450236
CATALOG NUMBER: GALN-SA1A-730-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-730-U-T2-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	194.5	0.0	194.5
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	2955.5	0.0	2955.5
	% Fixture	93.8	0.0	93.8
Total	Lumens	3150.0	0.0	3150.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.2	1.1
10°-20°	97.8	3.1
20°-30°	168.9	5.4
30°-40°	304.6	9.7
40°-50°	550.2	17.5
50°-60°	857.8	27.2
60°-70°	814.9	25.9
70°-80°	305.4	9.7
80°-90°	17.2	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°	3150.0	100.0
0°-180°	3150.0	100.0



REPORT NUMBER: P450236

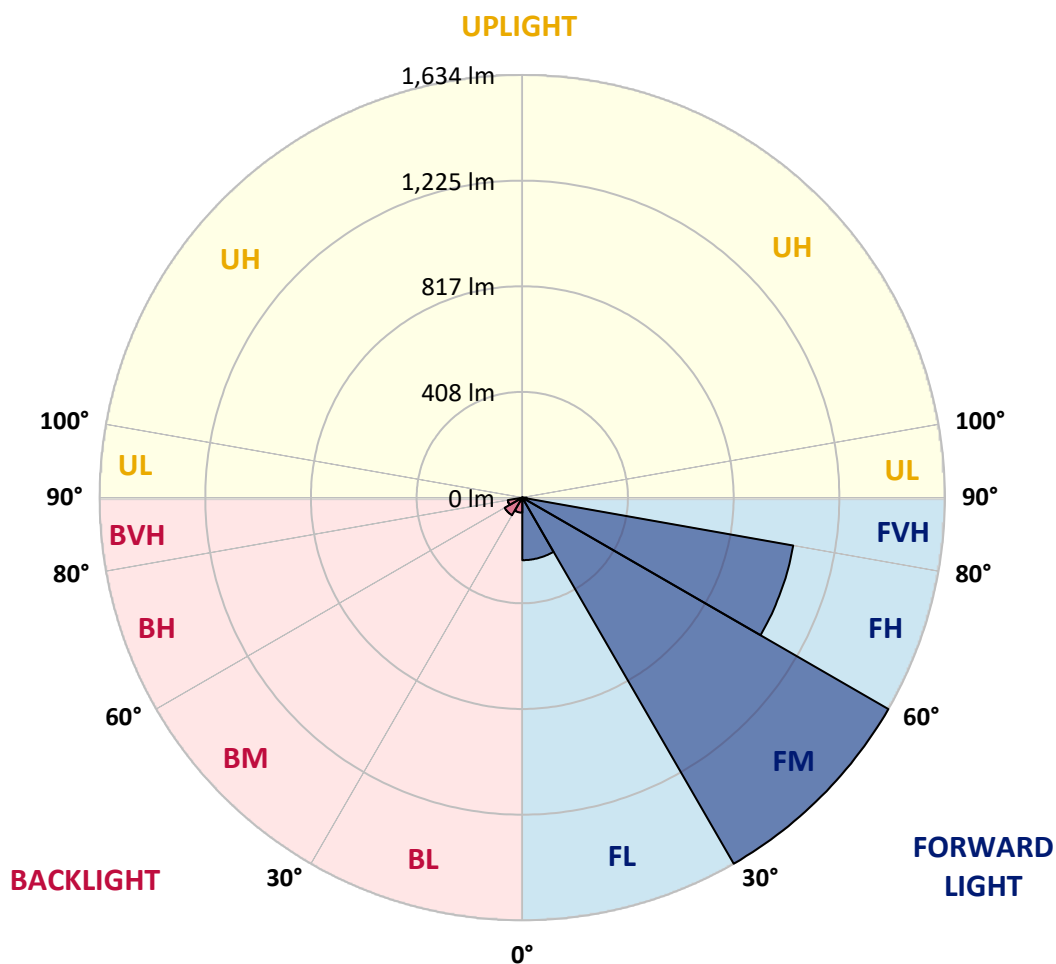
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	241.8	7.7			
FM (30°-60°)	1633.9	51.9			
FH (60°-80°)	1063.5	33.8			G1/1800
FVH (80°-90°)	16.3	0.5			G1/100
BL (0°-30°)	58.1	1.8	B0/110		
BM (30°-60°)	78.7	2.5	B0/220		
BH (60°-80°)	56.8	1.8	B0/110		G0/110
BVH (80°-90°)	0.9	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	344.5	344.5	344.5	344.5	344.5	344.5	344.5	344.5	344.5	344.5	344.5
2.5°	411.6	406.4	408.1	405.7	400.4	392.5	385.5	375.5	365.4	363.8	352.6
5°	465.8	464.4	462.6	455.8	452.1	440.0	425.5	408.3	387.6	383.8	363.6
7.5°	502.9	502.2	503.1	499.6	496.3	485.4	470.0	446.5	414.4	412.3	378.5
10°	515.0	516.8	520.3	525.9	531.0	527.6	515.9	486.6	449.1	443.0	395.5
12.5°	508.0	510.1	518.5	533.4	549.9	559.5	554.8	533.4	485.9	481.0	414.6
15°	490.1	492.6	504.5	527.6	557.1	584.2	595.8	580.4	528.7	520.8	437.7
17.5°	463.5	467.2	484.2	514.7	555.3	601.9	634.7	629.6	574.4	566.9	462.8
20°	443.5	446.3	460.7	495.6	547.4	611.6	671.7	686.2	630.7	617.9	492.4
22.5°	456.7	457.7	462.6	483.5	533.1	614.2	704.3	745.1	690.6	679.2	523.1
25°	521.7	512.4	507.5	502.9	530.1	611.9	733.9	806.6	750.2	738.1	553.6
27.5°	624.2	620.0	595.3	562.3	556.0	614.9	753.5	864.8	806.4	793.3	583.5
30°	735.8	728.6	713.4	665.0	616.3	636.3	767.7	921.4	872.7	855.5	610.7
32.5°	838.3	842.9	820.3	770.5	714.1	682.0	786.1	983.1	948.9	927.5	642.4
35°	957.8	967.1	932.4	884.6	818.7	764.4	822.0	1052.8	1045.6	1018.5	691.3
37.5°	1079.1	1084.7	1063.5	996.4	937.0	869.2	889.5	1138.7	1164.6	1141.5	749.8
40°	1181.1	1188.8	1173.2	1113.6	1050.2	990.6	987.6	1232.4	1306.2	1282.4	836.9
42.5°	1259.1	1265.0	1265.4	1223.3	1166.2	1139.2	1112.6	1351.8	1483.7	1456.2	938.0
45°	1357.7	1366.1	1361.2	1332.5	1289.9	1285.0	1271.3	1496.3	1696.1	1661.4	1069.1
47.5°	1510.0	1515.6	1503.5	1469.7	1426.4	1434.1	1425.9	1658.1	1912.7	1882.9	1204.9
50°	1615.7	1625.1	1642.3	1655.8	1624.4	1595.9	1571.7	1809.3	2118.4	2091.6	1343.7
52.5°	1614.6	1630.0	1684.5	1752.5	1821.2	1812.6	1742.9	1976.3	2314.7	2281.7	1474.1
55°	1505.8	1535.6	1615.7	1736.4	1926.7	2021.5	1989.8	2169.6	2484.3	2461.9	1625.3
57.5°	1281.3	1299.4	1410.8	1579.4	1867.8	2119.8	2275.8	2431.6	2687.6	2677.1	1860.1
60°	861.8	869.9	1013.2	1221.6	1590.1	2021.7	2485.5	2748.6	2938.0	2932.9	2134.2
62.5°	493.8	497.3	601.2	777.0	1131.5	1713.3	2503.2	3139.7	3238.2	3241.0	2451.4
65°	265.8	267.6	351.5	456.1	688.5	1221.2	2250.9	3354.0	3480.9	3486.3	2648.0
66°	229.4	220.6	279.7	388.7	547.8	972.0	2091.4	3346.3	3527.5	3521.7	2641.0
67.5°	174.5	182.4	223.4	298.8	406.0	691.1	1726.6	3197.5	3492.1	3474.0	2533.7
70°	124.8	128.1	159.1	213.1	276.5	379.2	1103.3	2655.7	3174.0	3149.5	2207.4
72.5°	80.6	84.1	112.7	154.2	199.8	207.1	617.7	1918.8	2447.0	2443.5	1662.3
75°	57.5	60.8	74.5	110.4	150.2	128.1	297.4	1293.2	1555.6	1545.2	1028.3
77.5°	41.7	43.3	49.8	72.2	107.4	91.8	137.9	690.6	774.4	811.0	454.4
80°	24.0	25.4	34.7	44.0	72.7	62.7	65.9	277.2	285.8	272.0	142.1
82.5°	11.9	13.5	20.7	30.0	45.4	42.2	30.3	83.4	88.0	85.7	35.9
85°	2.8	3.5	11.6	19.8	22.1	18.9	14.7	24.5	30.3	29.6	13.7
87.5°	0.2	0.5	4.2	3.5	3.7	6.3	5.1	6.3	9.8	9.1	4.9
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°	344.5	344.5	344.5	344.5	344.5	344.5	344.5	344.5	344.5	344.5	344.5
2.5°	347.5	343.1	330.3	317.7	307.2	296.3	286.3	280.4	278.1	275.5	276.7
5°	352.4	341.7	315.8	293.5	271.6	252.9	238.0	228.5	223.8	223.1	222.0
7.5°	358.9	340.5	300.5	265.5	236.9	216.1	199.1	185.4	181.2	177.5	174.5
10°	366.8	338.4	281.4	236.2	205.7	179.6	157.2	140.9	132.5	130.2	131.8
12.5°	375.2	334.5	261.3	209.2	174.0	140.7	120.0	111.8	109.5	108.5	108.8
15°	383.6	329.6	240.4	183.1	138.6	112.3	102.7	100.6	99.7	99.2	98.8
17.5°	391.3	321.7	216.8	157.7	112.3	96.0	92.5	90.6	88.7	88.0	86.9
20°	400.4	312.6	195.6	129.3	95.0	86.9	82.7	79.2	76.4	74.5	74.3
22.5°	409.0	300.9	173.5	107.1	86.6	78.0	71.3	67.5	64.3	62.0	62.7
25°	413.7	286.7	153.7	93.4	79.0	69.2	61.7	57.1	53.6	52.4	52.2
27.5°	413.7	269.3	134.4	85.5	72.0	61.3	53.6	49.1	46.8	45.2	45.4
30°	410.4	249.9	116.5	79.4	65.9	54.3	47.0	43.1	41.2	40.1	39.8
32.5°	407.8	231.5	101.1	73.6	59.6	48.2	41.9	38.9	37.0	35.9	35.9
35°	411.8	215.7	89.2	67.8	53.8	43.6	38.0	35.2	33.3	32.4	32.1
37.5°	422.3	201.2	80.1	61.5	48.4	39.6	35.2	31.9	30.0	28.9	28.4
40°	448.1	193.1	73.4	55.7	43.3	36.3	31.9	28.9	26.6	25.4	25.2
42.5°	489.6	193.3	66.8	50.3	39.4	33.5	29.1	25.6	23.1	21.9	21.7
45°	552.0	202.2	61.7	45.2	35.9	30.5	26.1	22.4	20.0	18.9	18.9
47.5°	626.8	219.4	57.3	40.8	32.6	27.7	23.1	19.3	17.0	16.1	16.1
50°	707.8	241.8	52.9	36.1	29.8	24.7	19.8	16.8	14.9	14.2	14.2
52.5°	790.5	268.8	48.4	32.4	26.8	21.4	17.0	14.9	13.3	12.8	12.6
55°	899.1	303.3	43.8	28.4	23.5	18.4	15.1	13.0	11.2	10.5	10.2
57.5°	1066.1	355.2	38.7	24.9	19.3	15.4	13.0	10.9	8.9	7.7	7.5
60°	1267.5	418.6	33.3	21.9	15.6	12.6	10.5	8.4	6.5	5.1	4.9
62.5°	1456.2	458.8	28.2	18.4	12.3	9.5	7.5	6.3	4.7	3.3	3.0
65°	1539.6	445.3	23.3	14.9	9.8	6.8	4.9	4.4	2.8	1.4	1.2
66°	1511.9	425.3	21.4	13.5	8.9	5.8	4.2	3.7	2.1	0.7	0.7
67.5°	1430.1	378.0	18.6	11.6	7.7	4.7	3.3	2.8	1.2	0.2	0.0
70°	1225.4	305.8	14.7	8.6	5.6	3.3	1.9	1.4	0.7	0.0	0.0
72.5°	941.2	227.8	11.6	6.5	4.0	1.9	0.9	0.5	0.7	0.0	0.0
75°	576.7	130.2	9.1	4.9	2.6	1.2	0.7	0.0	0.7	0.2	0.0
77.5°	256.0	58.5	6.1	3.3	1.9	0.9	0.5	0.0	0.5	0.2	0.0
80°	64.8	19.1	3.5	2.3	1.4	0.7	0.2	0.0	0.5	0.5	0.2
82.5°	17.7	7.0	2.6	1.9	1.2	0.7	0.2	0.0	0.5	0.5	0.5
85°	7.0	3.3	2.3	1.9	1.4	0.7	0.2	0.0	0.5	0.5	0.5
87.5°	3.3	2.3	2.3	2.1	1.6	0.7	0.2	0.0	0.5	0.2	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)