

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: P458538

Luminaire Tested: **GALN-SA1A-735-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458538
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-29)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1A-735-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV FORWARD
THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3104 lumens
Efficiency: N/A
Efficacy: 94.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G1

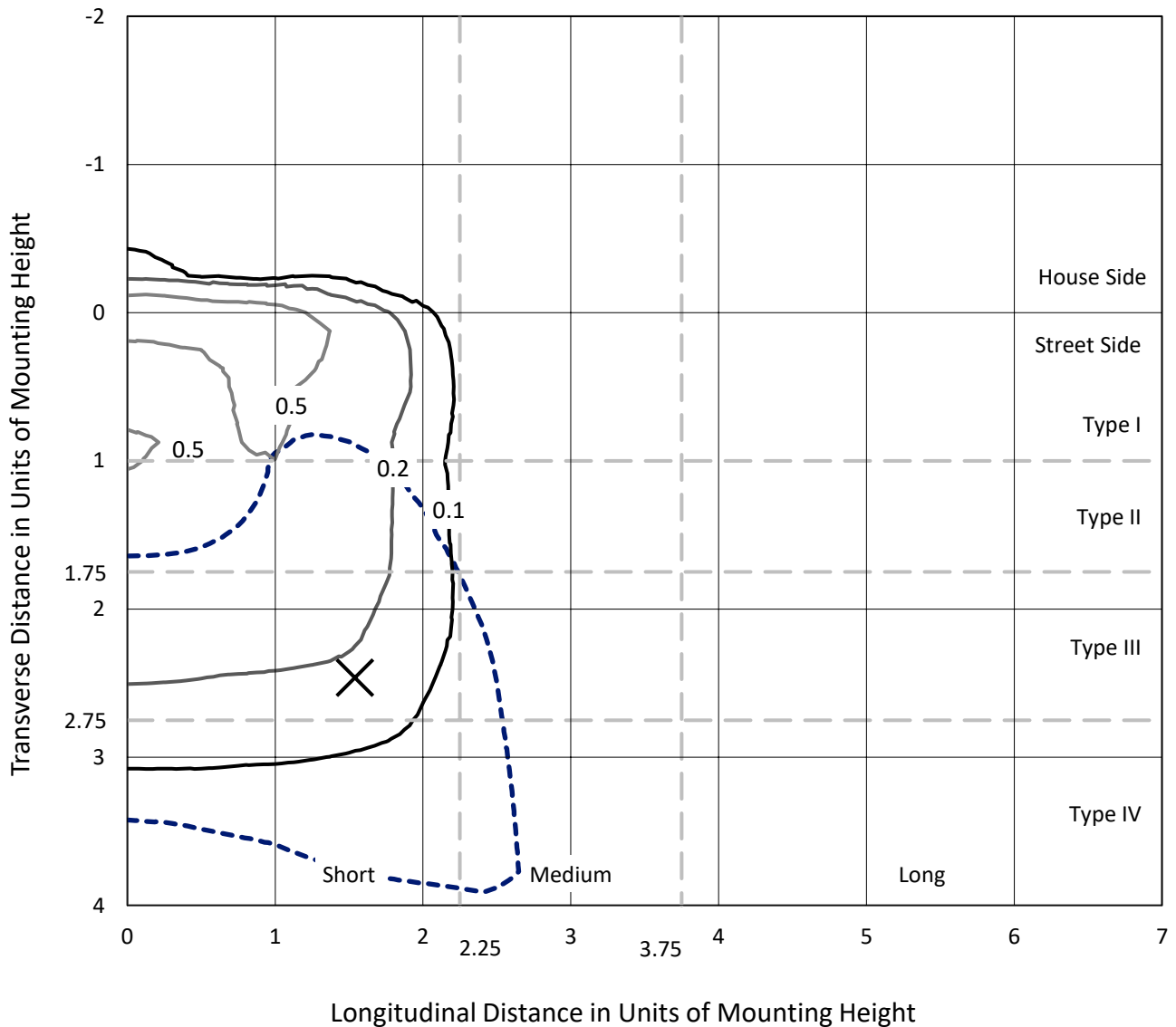
Input Watts (W): 33
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

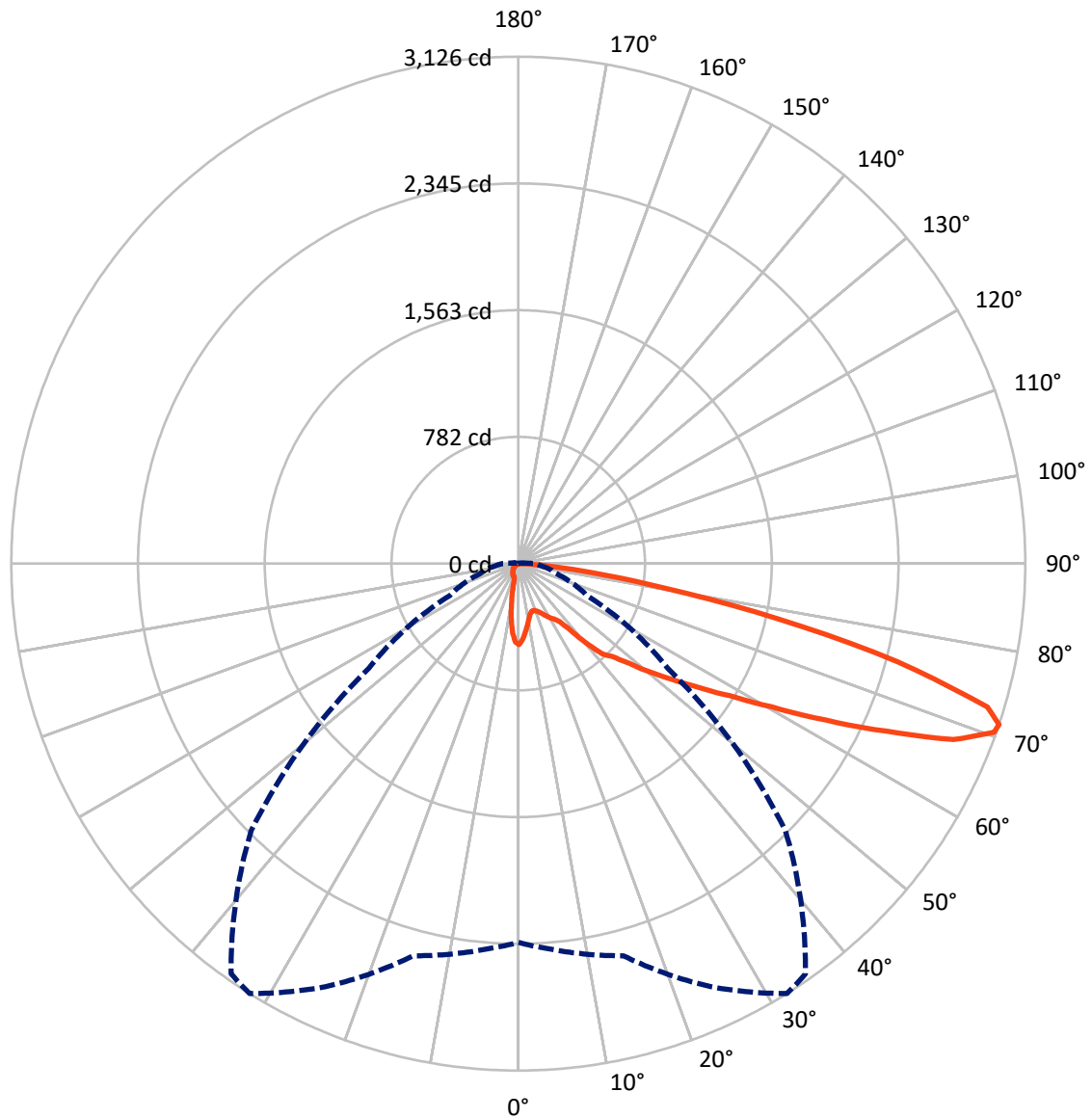
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	260.0	0.0	260.0
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	2844.0	0.0	2844.0
	% Fixture	91.6	0.0	91.6
Total	Lumens	3104.0	0.0	3104.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.6	1.3
10°-20°	88.1	2.8
20°-30°	137.0	4.4
30°-40°	228.3	7.4
40°-50°	424.7	13.7
50°-60°	681.9	22.0
60°-70°	917.2	29.5
70°-80°	544.2	17.5
80°-90°	42.1	1.4
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°	3104.0	100.0
0°-180°	3104.0	100.0



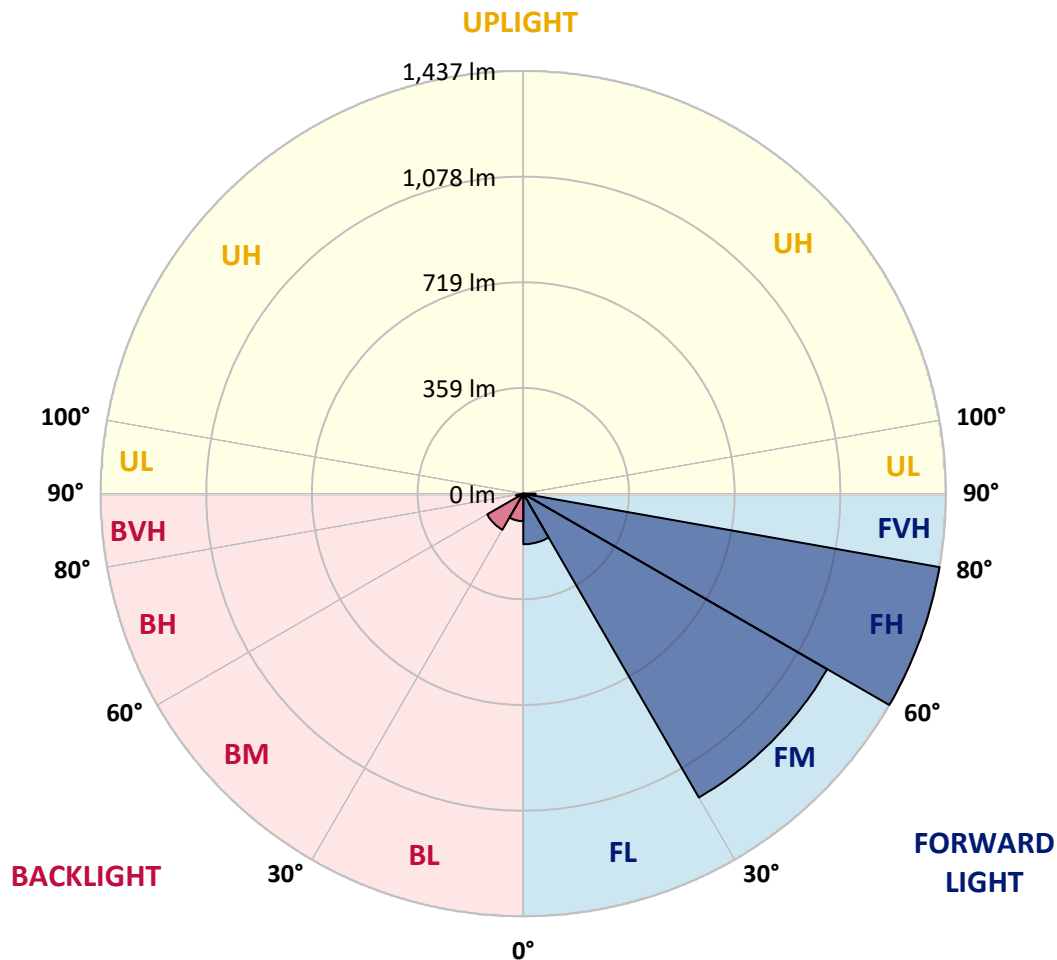
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	172.0	5.5			
FM (30°-60°)	1193.1	38.4			
FH (60°-80°)	1437.0	46.3			G1/1800
FVH (80°-90°)	41.9	1.3			G1/100
BL (0°-30°)	93.7	3.0	B0/110		
BM (30°-60°)	141.8	4.6	B0/220		
BH (60°-80°)	24.3	0.8	B0/110		G0/110
BVH (80°-90°)	0.2	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	499.2	499.2	499.2	499.2	499.2	499.2	499.2	499.2	499.2	499.2	499.2
2.5°	463.0	467.7	467.0	468.7	472.7	474.4	478.9	483.9	490.8	495.6	498.7
5°	414.6	418.2	418.6	427.0	431.0	435.6	448.9	463.4	479.6	492.5	501.1
7.5°	362.9	364.8	368.6	379.6	389.8	394.3	414.6	439.8	465.3	489.4	504.9
10°	320.2	322.4	329.3	341.0	350.5	356.4	384.6	416.3	452.0	487.7	510.4
12.5°	295.9	297.1	299.7	310.2	322.4	328.8	359.1	395.3	441.3	488.4	519.7
15°	294.3	293.8	290.7	295.0	305.9	312.6	342.2	381.0	431.7	490.8	530.6
17.5°	303.1	301.9	294.5	294.5	303.6	309.0	335.0	373.4	427.0	496.3	546.1
20°	316.7	314.8	302.6	301.6	310.5	316.2	339.3	373.8	427.9	506.6	566.8
22.5°	333.8	331.7	313.3	313.8	323.3	329.0	351.7	382.4	433.9	519.2	589.0
25°	356.2	353.8	332.1	331.2	341.2	346.2	370.0	397.7	442.2	534.9	618.1
27.5°	386.0	381.0	355.0	353.6	364.3	370.7	392.2	418.2	457.0	556.6	657.1
30°	410.5	405.1	380.3	376.5	387.9	392.9	415.1	445.8	486.1	594.5	711.2
32.5°	442.7	434.6	405.5	395.5	407.7	414.1	448.2	497.3	529.2	634.5	775.6
35°	515.1	510.1	474.6	439.6	438.9	447.0	497.0	549.2	573.5	696.9	863.2
37.5°	618.8	615.2	577.6	530.6	517.0	513.2	556.4	606.4	644.3	782.7	965.2
40°	739.1	730.8	696.2	656.4	638.8	627.6	626.4	691.5	736.7	899.2	1071.5
42.5°	825.4	810.1	768.2	765.3	761.5	749.8	716.0	815.8	856.1	1024.6	1185.1
45°	915.9	892.8	830.4	819.6	818.2	817.5	851.3	963.1	986.2	1160.4	1301.9
47.5°	986.2	967.8	916.6	911.9	917.8	934.0	1030.3	1119.4	1114.6	1281.4	1399.8
50°	1079.8	1066.0	1009.1	1018.1	1048.9	1075.3	1232.1	1289.7	1220.2	1376.7	1471.1
52.5°	1190.4	1164.9	1112.0	1136.5	1183.7	1227.8	1446.3	1438.9	1294.3	1448.4	1524.2
55°	1286.2	1268.1	1250.0	1275.4	1346.0	1401.0	1639.8	1550.6	1348.1	1506.1	1547.6
57.5°	1448.2	1443.9	1425.3	1451.3	1536.8	1594.0	1813.0	1637.4	1382.7	1536.1	1520.2
60°	1687.9	1681.0	1646.4	1679.6	1791.1	1880.9	1972.6	1715.3	1390.5	1524.4	1441.3
62.5°	1976.2	1952.6	1923.1	1971.9	2124.9	2164.4	2123.0	1761.5	1361.2	1431.5	1251.1
65°	2245.4	2221.1	2221.9	2324.8	2491.3	2518.3	2298.3	1754.6	1275.4	1198.7	922.8
67.5°	2451.5	2447.5	2476.6	2677.4	2895.2	2876.6	2455.1	1651.2	1021.2	777.0	490.4
70°	2462.0	2469.9	2553.3	2892.3	3113.4	3083.9	2441.8	1342.2	636.7	357.4	193.2
71°	2335.3	2388.2	2503.5	2885.7	3126.3	3088.0	2329.3	1124.1	467.0	249.2	139.4
72.5°	1990.0	2017.9	2267.1	2715.8	3024.6	2942.6	2044.1	788.0	299.0	152.5	80.1
75°	1096.0	1164.7	1518.2	2130.6	2419.1	2347.2	1332.2	374.3	149.2	83.4	33.1
77.5°	521.8	508.5	740.8	1267.1	1640.2	1636.4	671.2	166.3	87.0	56.5	16.7
80°	149.2	167.7	283.5	602.3	910.7	920.7	257.8	80.3	60.3	44.1	8.6
82.5°	45.0	46.0	104.1	266.4	452.9	427.0	96.7	41.0	43.4	35.0	5.0
85°	7.9	9.8	30.7	93.9	172.7	131.0	24.3	19.5	28.6	23.1	2.9
87.5°	0.5	0.7	10.2	10.7	15.2	8.8	4.3	2.9	6.2	6.2	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°	499.2	499.2	499.2	499.2	499.2	499.2	499.2	499.2	499.2	499.2	499.2
2.5°	500.8	502.3	501.3	499.2	495.6	491.3	485.6	480.8	476.8	474.6	477.3
5°	503.9	505.8	501.1	490.4	474.2	456.5	436.5	421.0	408.9	405.1	403.6
7.5°	508.7	509.9	497.0	473.2	438.9	397.2	360.7	330.0	306.2	299.0	288.5
10°	514.9	514.2	489.9	445.6	385.3	322.6	266.1	224.2	192.5	181.1	180.1
12.5°	524.4	520.6	480.8	407.9	321.4	239.5	169.6	132.7	112.7	106.0	104.6
15°	536.3	527.3	466.5	363.8	246.1	154.6	104.6	93.4	90.8	90.3	89.8
17.5°	550.4	536.1	447.7	309.7	173.0	100.3	87.4	87.2	87.4	87.0	86.7
20°	569.5	545.4	425.3	245.7	114.4	84.6	83.4	83.4	83.6	83.4	83.4
22.5°	589.7	556.4	397.7	187.5	86.3	80.3	80.1	80.5	81.0	80.8	80.8
25°	614.7	570.7	361.2	128.4	77.2	76.7	77.0	77.9	78.9	79.1	78.9
27.5°	650.9	588.3	322.1	88.4	70.8	71.2	73.6	76.0	77.4	77.7	77.7
30°	691.7	607.8	271.1	71.7	65.5	65.5	68.4	72.9	76.0	76.5	76.7
32.5°	744.1	630.5	214.7	64.6	60.5	60.0	62.7	68.1	73.9	75.5	75.5
35°	808.9	657.1	159.6	60.0	56.9	55.8	57.2	61.7	69.1	73.9	74.3
37.5°	884.9	682.4	116.8	56.0	53.6	51.9	52.9	56.5	62.4	69.6	71.5
40°	955.2	704.8	87.2	52.7	50.3	49.1	49.8	51.5	56.5	63.1	64.3
42.5°	1031.9	722.2	69.3	49.1	46.9	46.5	46.5	47.2	50.5	54.3	54.6
45°	1108.4	728.4	58.1	44.8	43.4	43.8	43.6	43.1	44.6	44.1	44.1
47.5°	1163.0	721.0	48.1	40.7	40.7	41.5	40.3	38.6	37.9	35.0	35.3
50°	1200.4	694.1	39.6	36.0	37.9	38.8	36.5	33.8	31.2	28.1	27.4
52.5°	1215.9	646.2	32.4	29.8	33.6	34.8	31.9	28.8	24.8	22.2	21.4
55°	1205.9	587.1	26.9	24.3	28.4	29.8	26.9	23.4	18.8	16.0	15.5
57.5°	1161.8	516.6	22.9	19.3	22.6	23.6	21.7	17.9	13.3	10.5	10.5
60°	1085.5	443.7	18.6	15.2	16.9	18.3	16.4	12.9	9.1	6.4	6.0
62.5°	930.9	360.3	15.0	11.9	11.9	13.1	11.4	9.3	5.7	3.3	3.1
65°	672.2	247.1	11.9	8.8	8.6	8.6	7.1	6.2	3.3	1.4	1.0
67.5°	365.3	139.4	9.5	6.7	6.0	5.7	4.5	3.6	1.4	0.2	0.0
70°	143.7	53.6	7.4	4.5	3.8	3.6	2.4	1.7	1.0	0.0	0.0
71°	97.5	36.9	6.4	3.8	3.1	2.6	1.9	1.4	0.7	0.0	0.0
72.5°	55.8	22.9	5.0	2.9	2.4	1.9	1.4	1.0	0.7	0.0	0.0
75°	24.3	11.7	3.1	2.1	1.7	1.2	1.0	0.7	0.2	0.0	0.0
77.5°	12.4	6.4	2.1	1.7	1.0	0.7	0.5	0.2	0.0	0.0	0.0
80°	6.9	3.3	1.4	1.0	0.7	0.5	0.2	0.2	0.0	0.0	0.0
82.5°	3.8	1.9	0.7	0.5	0.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.4	1.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.2	0.5	0.0	0.0	0.0	0.0	0.2	0.2	0.0	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)