

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: P450215

Luminaire Tested: **GALN-SA1A-727-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450215
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-727-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 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: 2787 lumens
Efficiency: N/A
Efficacy: 84.5 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

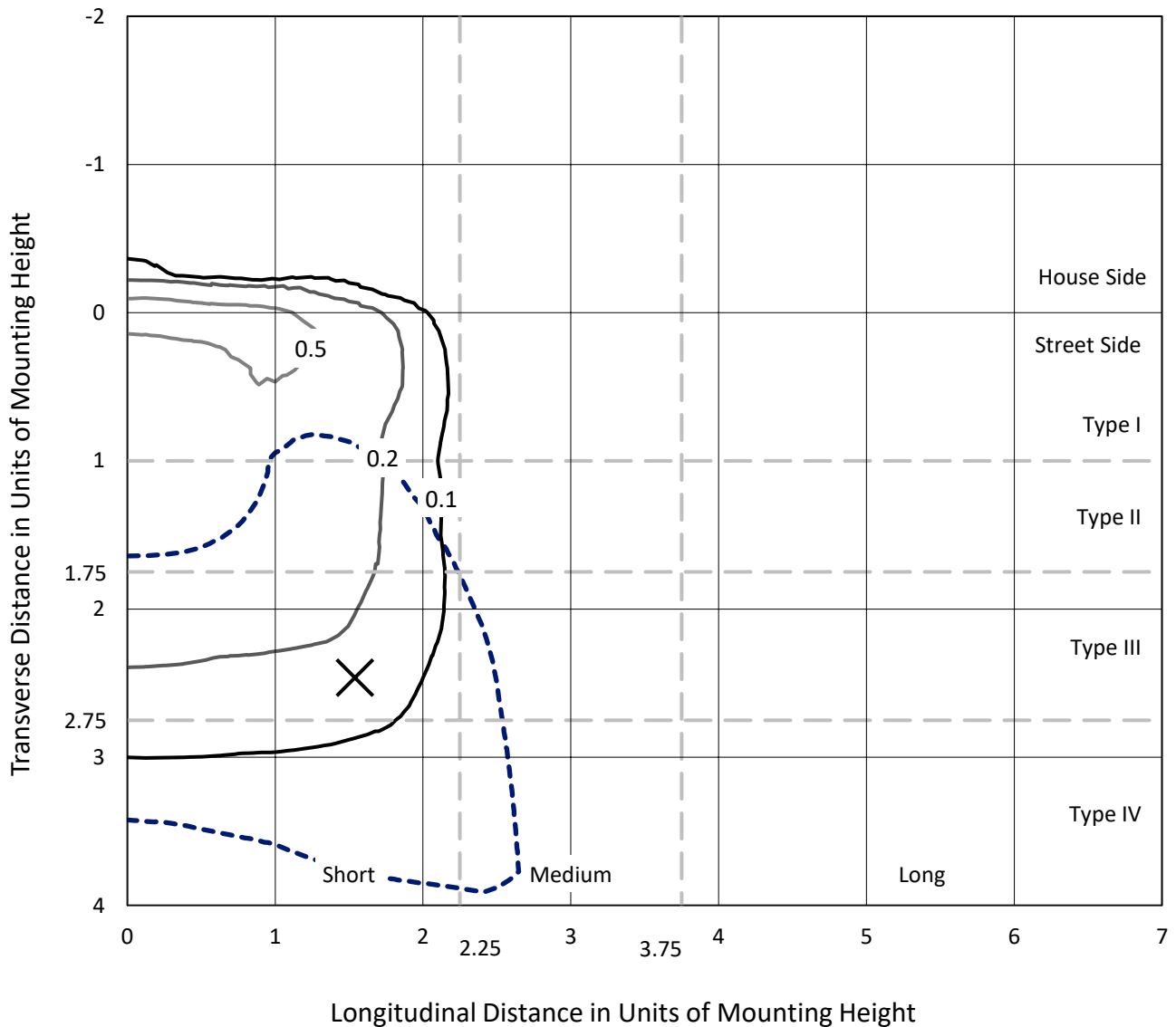
Input Watts (W): 33
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

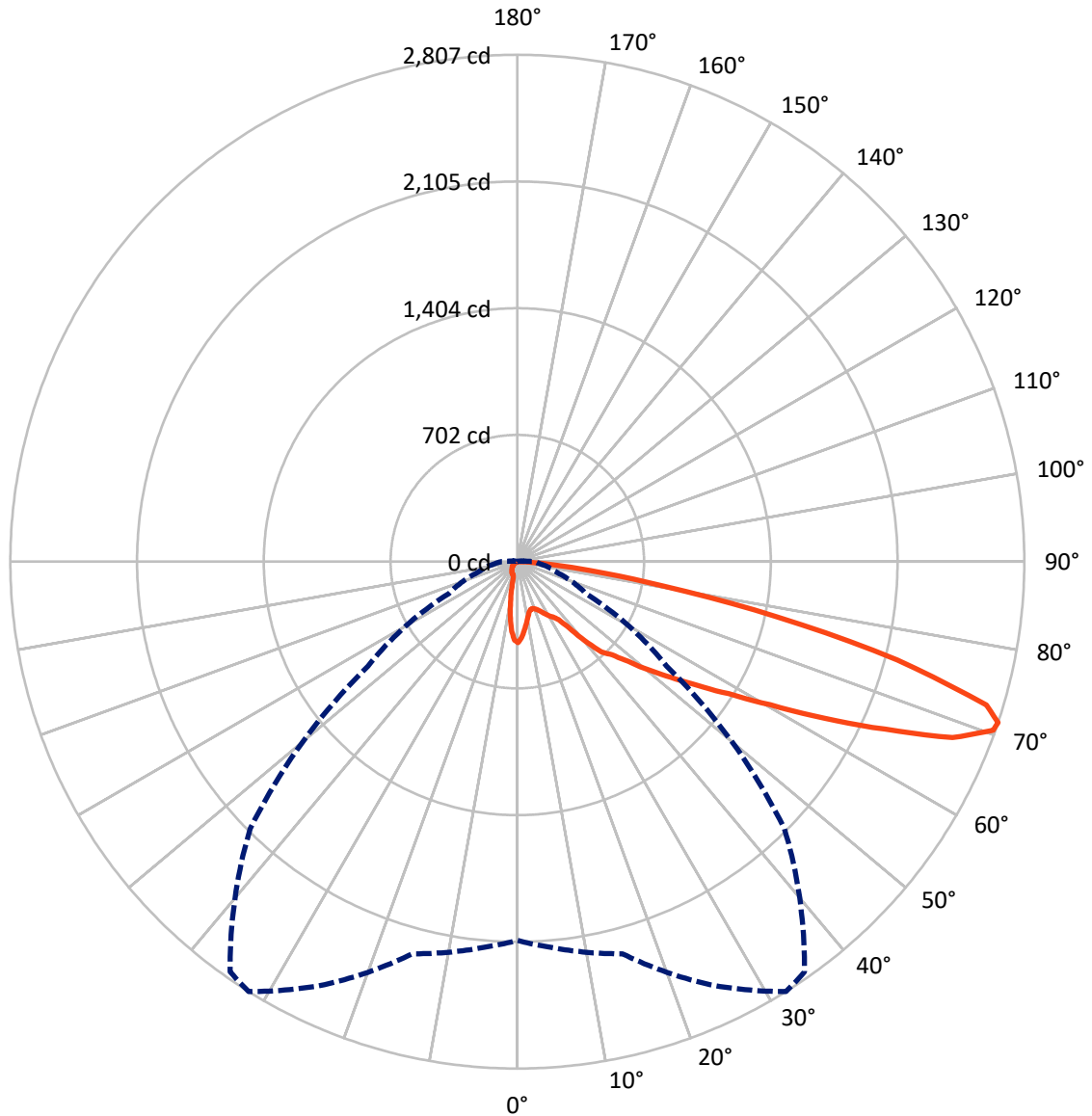
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.7 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	233.4	0.0	233.4
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	2553.6	0.0	2553.6
	% Fixture	91.6	0.0	91.6
Total	Lumens	2787.0	0.0	2787.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.4	1.3
10°-20°	79.1	2.8
20°-30°	123.0	4.4
30°-40°	205.0	7.4
40°-50°	381.3	13.7
50°-60°	612.2	22.0
60°-70°	823.5	29.5
70°-80°	488.6	17.5
80°-90°	37.8	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°	2787.0	100.0
0°-180°	2787.0	100.0

Coefficient of Utilization



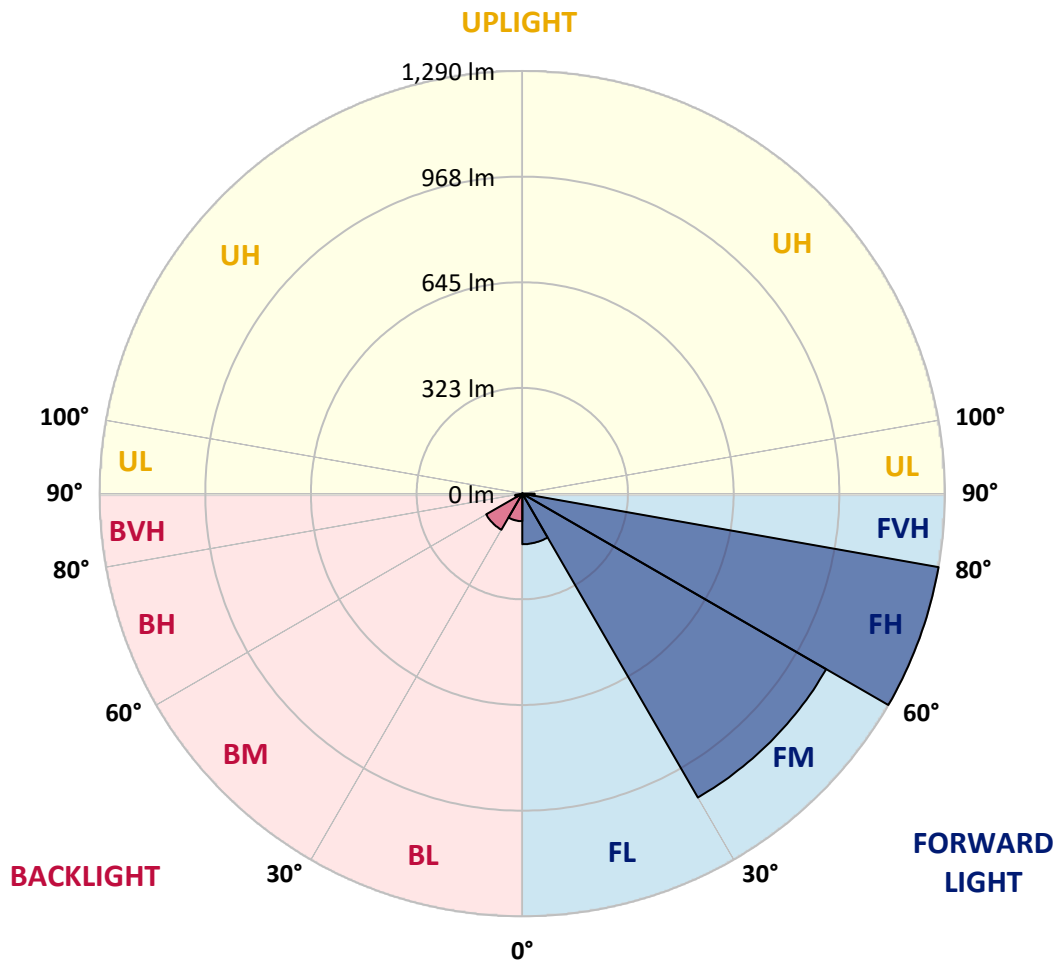
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	154.5	5.5			
FM (30°-60°)	1071.2	38.4			
FH (60°-80°)	1290.2	46.3			G1/1800
FVH (80°-90°)	37.6	1.3			G1/100
BL (0°-30°)	84.1	3.0	B0/110		
BM (30°-60°)	127.3	4.6	B0/220		
BH (60°-80°)	21.8	0.8	B0/110		G0/110
BVH (80°-90°)	0.1	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°	448.2	448.2	448.2	448.2	448.2	448.2	448.2	448.2	448.2	448.2	448.2
2.5°	415.7	420.0	419.3	420.8	424.4	425.9	430.0	434.5	440.7	445.0	447.8
5°	372.2	375.5	375.9	383.4	387.0	391.1	403.1	416.1	430.7	442.2	449.9
7.5°	325.8	327.5	331.0	340.8	350.0	354.1	372.2	394.9	417.8	439.4	453.3
10°	287.5	289.5	295.7	306.1	314.7	320.0	345.3	373.7	405.8	437.9	458.2
12.5°	265.7	266.8	269.1	278.5	289.5	295.2	322.4	354.9	396.2	438.6	466.6
15°	264.2	263.8	261.0	264.9	274.7	280.7	307.2	342.1	387.6	440.7	476.4
17.5°	272.1	271.1	264.4	264.4	272.6	277.5	300.8	335.2	383.4	445.6	490.3
20°	284.3	282.6	271.7	270.8	278.8	283.9	304.6	335.7	384.2	454.8	509.0
22.5°	299.7	297.8	281.3	281.8	290.3	295.4	315.8	343.4	389.6	466.2	528.8
25°	319.8	317.7	298.2	297.4	306.4	310.8	332.2	357.1	397.1	480.3	554.9
27.5°	346.6	342.1	318.8	317.5	327.1	332.9	352.1	375.5	410.3	499.8	590.0
30°	368.6	363.7	341.4	338.0	348.3	352.8	372.7	400.3	436.4	533.8	638.6
32.5°	397.5	390.2	364.1	355.1	366.0	371.8	402.4	446.5	475.1	569.7	696.4
35°	462.5	458.0	426.2	394.7	394.1	401.3	446.3	493.1	514.9	625.8	775.1
37.5°	555.6	552.4	518.6	476.4	464.2	460.8	499.5	544.5	578.5	702.8	866.6
40°	663.6	656.1	625.1	589.4	573.6	563.5	562.4	620.8	661.5	807.4	962.1
42.5°	741.1	727.4	689.7	687.2	683.7	673.3	642.9	732.5	768.7	919.9	1064.1
45°	822.4	801.6	745.6	735.9	734.7	734.0	764.4	864.7	885.5	1041.9	1168.9
47.5°	885.5	869.0	823.0	818.7	824.1	838.6	925.1	1005.1	1000.8	1150.5	1256.9
50°	969.6	957.1	906.0	914.1	941.7	965.5	1106.3	1158.0	1095.6	1236.1	1320.8
52.5°	1068.8	1045.9	998.4	1020.5	1062.8	1102.4	1298.6	1292.0	1162.1	1300.5	1368.5
55°	1154.8	1138.6	1122.3	1145.2	1208.5	1257.9	1472.3	1392.3	1210.4	1352.3	1389.5
57.5°	1300.3	1296.4	1279.8	1303.1	1379.9	1431.2	1627.8	1470.2	1241.5	1379.2	1364.9
60°	1515.5	1509.3	1478.3	1508.0	1608.1	1688.8	1771.2	1540.1	1248.5	1368.8	1294.1
62.5°	1774.4	1753.2	1726.7	1770.5	1907.9	1943.4	1906.2	1581.6	1222.2	1285.3	1123.4
65°	2016.1	1994.3	1994.9	2087.4	2236.9	2261.1	2063.6	1575.4	1145.2	1076.3	828.6
67.5°	2201.2	2197.5	2223.6	2404.0	2599.5	2582.8	2204.4	1482.6	916.9	697.6	440.3
70°	2210.6	2217.6	2292.5	2597.0	2795.5	2769.0	2192.4	1205.1	571.6	320.9	173.5
71°	2096.8	2144.3	2247.8	2591.0	2807.0	2772.6	2091.4	1009.3	419.3	223.8	125.2
72.5°	1786.8	1811.8	2035.6	2438.4	2715.7	2642.1	1835.3	707.5	268.5	136.9	71.9
75°	984.1	1045.7	1363.2	1913.0	2172.1	2107.5	1196.1	336.1	133.9	74.9	29.7
77.5°	468.5	456.5	665.1	1137.7	1472.7	1469.3	602.7	149.3	78.1	50.7	15.0
80°	133.9	150.6	254.6	540.8	817.7	826.6	231.5	72.1	54.1	39.6	7.7
82.5°	40.4	41.3	93.5	239.2	406.7	383.4	86.9	36.8	38.9	31.4	4.5
85°	7.1	8.8	27.6	84.3	155.1	117.7	21.8	17.5	25.7	20.8	2.6
87.5°	0.4	0.6	9.2	9.6	13.7	7.9	3.9	2.6	5.6	5.6	1.5
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°	448.2	448.2	448.2	448.2	448.2	448.2	448.2	448.2	448.2	448.2	448.2
2.5°	449.7	451.0	450.1	448.2	445.0	441.1	436.0	431.7	428.1	426.2	428.5
5°	452.5	454.2	449.9	440.3	425.7	409.9	391.9	378.0	367.1	363.7	362.4
7.5°	456.8	457.8	446.3	424.9	394.1	356.6	323.9	296.3	274.9	268.5	259.1
10°	462.3	461.7	439.8	400.1	345.9	289.7	239.0	201.3	172.9	162.6	161.7
12.5°	470.9	467.4	431.7	366.3	288.6	215.0	152.3	119.2	101.2	95.2	93.9
15°	481.6	473.4	418.9	326.7	221.0	138.8	93.9	83.9	81.5	81.1	80.7
17.5°	494.2	481.4	402.0	278.1	155.3	90.1	78.5	78.3	78.5	78.1	77.9
20°	511.3	489.7	381.9	220.6	102.7	75.9	74.9	74.9	75.1	74.9	74.9
22.5°	529.5	499.5	357.1	168.4	77.4	72.1	71.9	72.3	72.7	72.5	72.5
25°	552.0	512.4	324.3	115.3	69.3	68.9	69.1	70.0	70.8	71.0	70.8
27.5°	584.5	528.2	289.2	79.4	63.5	64.0	66.1	68.2	69.5	69.7	69.7
30°	621.1	545.7	243.5	64.4	58.8	58.8	61.4	65.5	68.2	68.7	68.9
32.5°	668.1	566.1	192.8	58.0	54.3	53.9	56.3	61.2	66.3	67.8	67.8
35°	726.3	590.0	143.3	53.9	51.1	50.1	51.3	55.4	62.0	66.3	66.7
37.5°	794.6	612.7	104.8	50.3	48.1	46.6	47.5	50.7	56.1	62.5	64.2
40°	857.7	632.8	78.3	47.3	45.1	44.1	44.7	46.2	50.7	56.7	57.8
42.5°	926.6	648.4	62.3	44.1	42.1	41.7	41.7	42.4	45.4	48.8	49.0
45°	995.2	654.0	52.2	40.2	38.9	39.4	39.2	38.7	40.0	39.6	39.6
47.5°	1044.2	647.4	43.2	36.6	36.6	37.2	36.2	34.7	34.0	31.4	31.7
50°	1077.8	623.2	35.5	32.3	34.0	34.9	32.7	30.4	28.0	25.2	24.6
52.5°	1091.7	580.2	29.1	26.7	30.2	31.2	28.7	25.9	22.2	19.9	19.3
55°	1082.7	527.1	24.2	21.8	25.5	26.7	24.2	21.0	16.9	14.3	13.9
57.5°	1043.1	463.8	20.5	17.3	20.3	21.2	19.5	16.0	12.0	9.4	9.4
60°	974.7	398.3	16.7	13.7	15.2	16.5	14.8	11.6	8.1	5.8	5.3
62.5°	835.8	323.5	13.5	10.7	10.7	11.8	10.3	8.3	5.1	3.0	2.8
65°	603.5	221.9	10.7	7.9	7.7	7.7	6.4	5.6	3.0	1.3	0.9
67.5°	328.0	125.2	8.6	6.0	5.3	5.1	4.1	3.2	1.3	0.2	0.0
70°	129.0	48.1	6.6	4.1	3.4	3.2	2.1	1.5	0.9	0.0	0.0
71°	87.5	33.2	5.8	3.4	2.8	2.4	1.7	1.3	0.6	0.0	0.0
72.5°	50.1	20.5	4.5	2.6	2.1	1.7	1.3	0.9	0.6	0.0	0.0
75°	21.8	10.5	2.8	1.9	1.5	1.1	0.9	0.6	0.2	0.0	0.0
77.5°	11.1	5.8	1.9	1.5	0.9	0.6	0.4	0.2	0.0	0.0	0.0
80°	6.2	3.0	1.3	0.9	0.6	0.4	0.2	0.2	0.0	0.0	0.0
82.5°	3.4	1.7	0.6	0.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.1	1.1	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.1	0.4	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)