

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: P450229

Luminaire Tested: **GALN-SA1A-730-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450229
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)
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-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV SPILL LIGHT
ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3466 lumens
Efficiency: N/A
Efficacy: 105.0 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

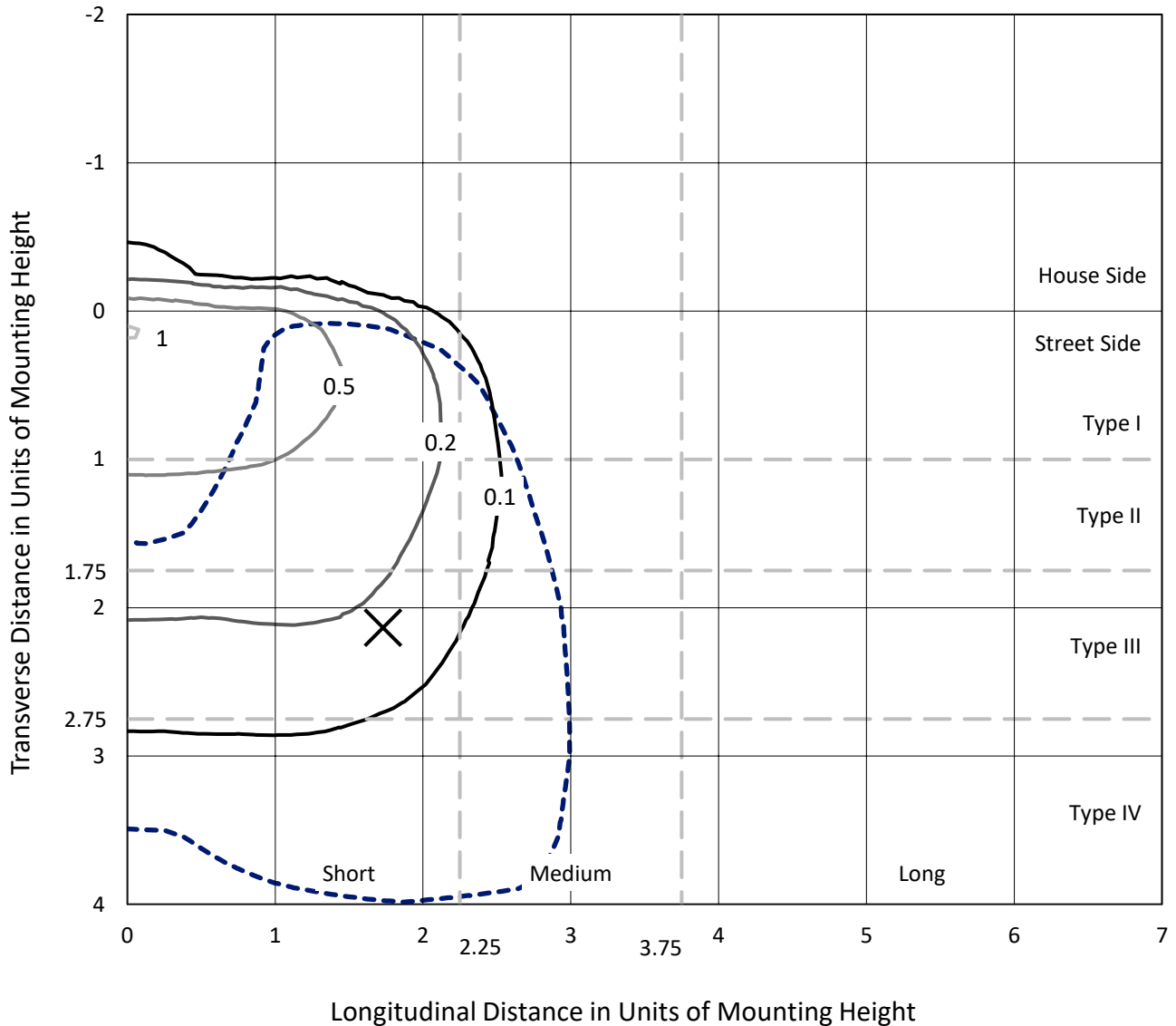
Input Watts (W): 33
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

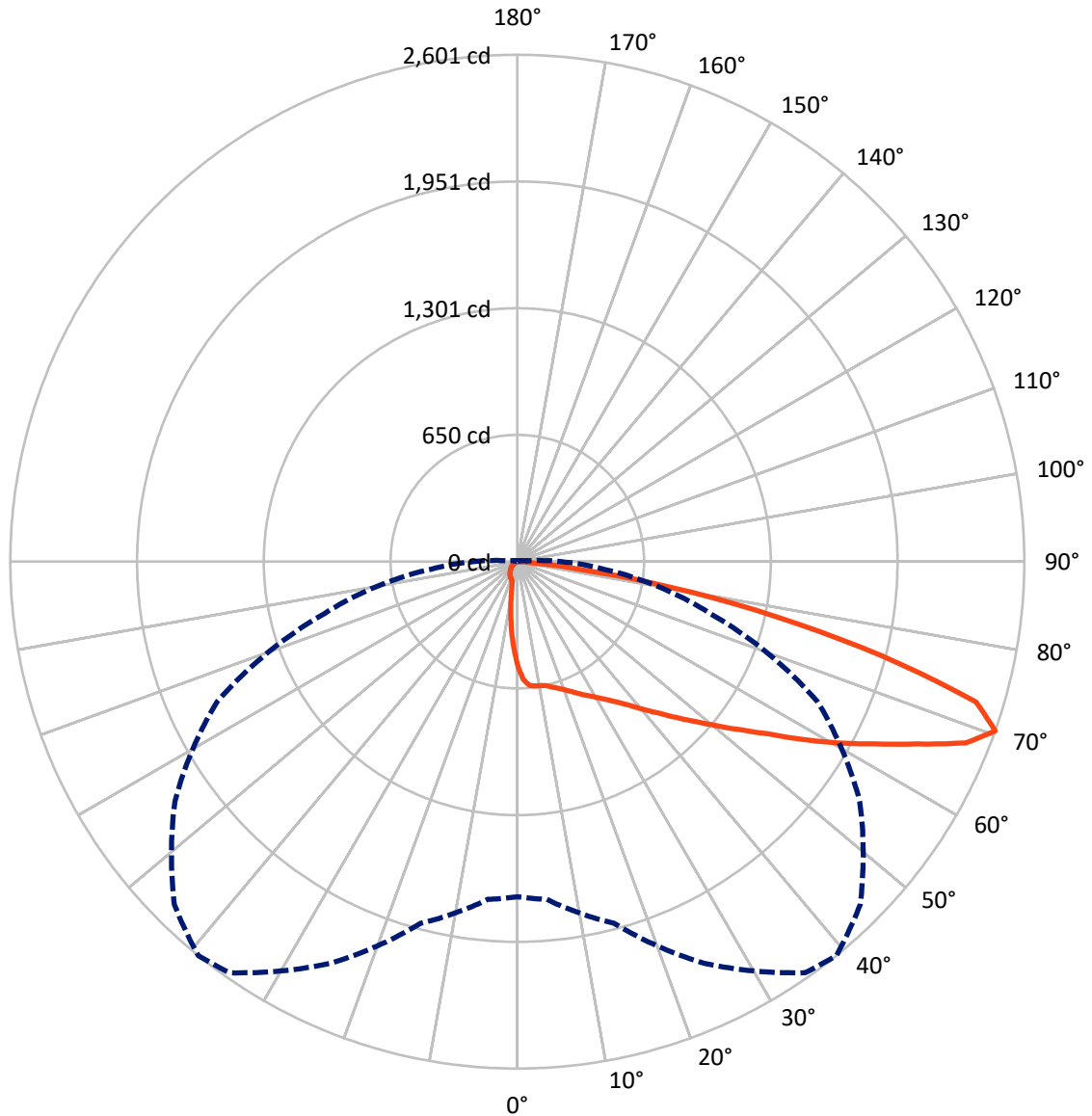
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	226.0	0.0	226.0
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	3240.0	0.0	3240.0
	% Fixture	93.5	0.0	93.5
Total	Lumens	3466.0	0.0	3466.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.1	1.3
10°-20°	119.9	3.5
20°-30°	200.8	5.8
30°-40°	311.4	9.0
40°-50°	493.6	14.2
50°-60°	723.5	20.9
60°-70°	927.3	26.8
70°-80°	582.7	16.8
80°-90°	60.7	1.8
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°	3466.0	100.0
0°-180°	3466.0	100.0

Coefficient of Utilization



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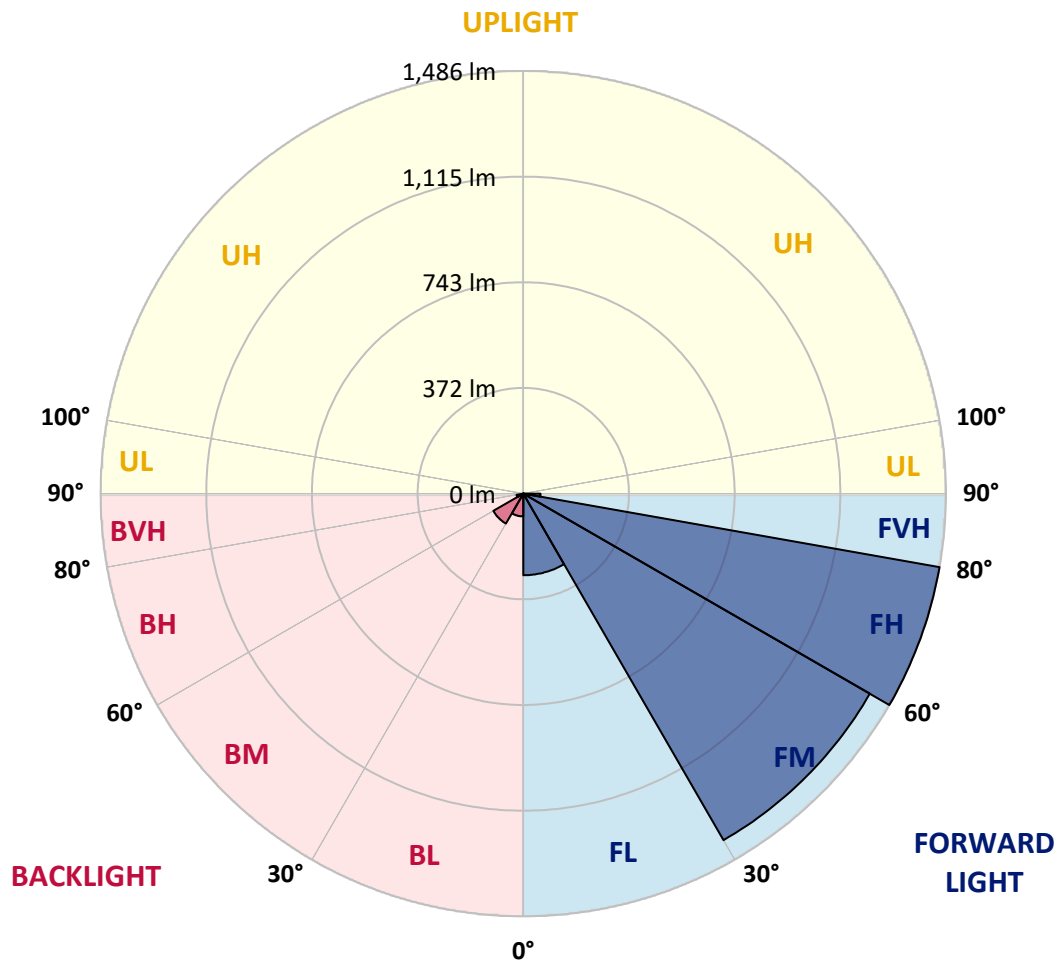
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	286.8	8.3			
FM (30°-60°)	1406.8	40.6			
FH (60°-80°)	1486.1	42.9			G1/1800
FVH (80°-90°)	60.3	1.7			G1/100
BL (0°-30°)	80.0	2.3	B0/110		
BM (30°-60°)	121.6	3.5	B0/220		
BH (60°-80°)	23.9	0.7	B0/110		G0/110
BVH (80°-90°)	0.4	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°	35°	39°	45°	55°	65°	75°	85°
0°	540.8	540.8	540.8	540.8	540.8	540.8	540.8	540.8	540.8	540.8	540.8
2.5°	624.9	622.8	620.0	616.7	607.4	605.8	600.2	588.3	574.1	562.5	546.4
5°	654.5	655.6	653.5	647.7	641.0	637.0	630.0	611.6	593.2	569.7	543.4
7.5°	661.2	663.6	661.0	655.4	648.9	644.7	639.1	623.3	601.8	575.1	539.0
10°	660.5	663.3	661.7	656.6	651.2	647.3	641.2	628.6	611.4	583.2	540.3
12.5°	659.4	663.1	662.9	660.3	655.9	652.8	649.1	637.9	621.9	595.1	548.0
15°	656.1	660.8	665.0	667.1	667.3	667.3	662.6	650.7	635.4	610.7	558.1
17.5°	657.5	662.9	673.3	679.4	683.6	683.1	678.2	665.4	648.4	626.8	568.5
20°	666.1	673.3	688.0	700.1	704.3	702.9	696.4	681.5	662.2	640.5	578.8
22.5°	687.3	693.8	712.2	726.4	729.5	725.7	716.4	696.2	678.7	655.4	591.1
25°	719.0	726.7	743.7	754.4	754.4	752.3	739.3	715.5	697.3	676.1	607.2
27.5°	757.4	763.9	780.7	790.3	784.7	778.6	765.6	736.9	719.5	702.2	626.5
30°	796.3	800.5	818.2	822.4	816.6	808.9	794.9	766.3	750.9	737.6	654.5
32.5°	833.1	842.2	856.9	855.9	848.0	844.3	831.5	801.0	792.4	791.0	693.6
35°	869.9	876.9	889.9	893.2	886.2	885.5	876.2	853.6	853.8	862.9	754.6
37.5°	901.6	907.9	923.3	930.5	931.9	935.4	931.6	916.7	937.9	962.8	835.4
40°	928.1	937.0	956.6	969.1	983.6	996.4	997.1	1000.3	1043.0	1085.8	941.0
42.5°	948.9	961.2	989.6	1012.9	1046.0	1062.3	1075.3	1093.3	1165.0	1229.1	1065.3
45°	975.9	990.1	1025.5	1062.1	1113.8	1140.6	1158.7	1206.7	1308.5	1395.8	1193.0
47.5°	1020.6	1028.1	1064.2	1117.5	1185.5	1223.7	1259.1	1331.8	1462.4	1540.7	1299.2
50°	1078.1	1083.0	1110.3	1184.3	1272.4	1322.7	1387.2	1472.7	1622.2	1660.9	1359.3
52.5°	1141.7	1143.4	1163.8	1257.9	1369.7	1433.1	1505.3	1610.8	1752.4	1746.6	1399.1
55°	1215.6	1213.2	1230.7	1337.8	1485.0	1557.5	1641.5	1752.2	1865.4	1807.4	1421.9
57.5°	1300.1	1293.8	1310.8	1443.8	1632.7	1719.3	1804.8	1874.2	1952.9	1858.4	1432.9
60°	1388.6	1376.0	1396.3	1562.8	1806.7	1888.9	1959.9	1978.6	2045.2	1898.9	1414.0
62.5°	1459.2	1459.4	1497.1	1689.5	1985.5	2057.5	2095.3	2112.0	2124.6	1890.1	1314.8
65°	1569.3	1573.1	1633.4	1865.4	2192.6	2255.0	2280.9	2226.4	2128.1	1780.1	1165.7
67.5°	1683.0	1694.9	1805.3	2107.6	2431.8	2482.1	2448.8	2248.5	2033.1	1529.3	883.9
70°	1720.0	1739.6	1921.5	2274.4	2575.3	2601.4	2488.6	2145.3	1699.5	1022.5	444.9
72.5°	1576.1	1607.8	1854.7	2213.6	2483.7	2461.2	2226.6	1799.2	1080.5	388.3	135.8
75°	1111.4	1125.4	1541.4	1836.3	1997.7	1933.6	1693.7	1159.9	444.4	109.0	46.6
77.5°	573.9	567.1	916.7	1218.3	1424.7	1358.3	1109.1	600.4	168.4	45.4	28.9
80°	296.7	301.6	396.6	638.4	869.7	800.3	591.4	278.3	89.7	25.2	22.1
82.5°	166.3	156.0	228.0	278.8	406.7	318.9	226.9	197.0	39.1	15.1	21.0
85°	30.3	31.7	125.1	150.7	141.1	89.7	73.1	131.6	11.4	8.4	14.7
87.5°	0.5	0.5	24.2	43.3	27.5	12.6	23.1	18.9	2.3	3.3	2.6
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°	540.8	540.8	540.8	540.8	540.8	540.8	540.8	540.8	540.8	540.8	540.8
2.5°	538.3	529.4	512.9	496.6	475.8	458.8	447.4	435.5	423.4	424.4	427.2
5°	528.9	513.6	481.0	446.5	413.4	383.6	354.3	327.9	317.2	307.4	307.9
7.5°	519.6	498.0	450.2	396.2	346.1	295.3	258.5	228.3	212.2	200.1	196.6
10°	515.4	486.8	422.0	347.7	276.7	221.3	174.0	149.3	130.2	124.1	125.8
12.5°	517.3	481.2	396.6	303.9	219.4	154.2	121.1	108.5	104.3	103.6	103.2
15°	520.8	477.2	371.7	255.5	161.2	114.6	101.8	99.5	99.0	98.5	98.8
17.5°	525.4	473.7	345.2	210.1	123.7	100.2	96.4	95.3	95.0	95.0	95.0
20°	530.1	469.8	315.6	169.6	103.2	94.6	92.2	91.5	91.3	91.3	91.1
22.5°	535.5	466.3	285.5	133.2	95.0	90.6	88.5	88.0	87.8	87.6	87.6
25°	543.1	461.9	253.6	109.0	89.9	86.9	84.8	84.3	84.1	83.1	83.4
27.5°	553.4	458.6	220.8	94.1	85.2	82.2	80.8	80.1	79.7	79.0	79.2
30°	567.4	455.8	185.9	85.9	79.9	77.3	75.9	75.5	75.0	74.3	74.3
32.5°	591.6	457.0	149.1	79.4	75.0	72.0	70.6	70.1	69.6	68.9	68.9
35°	627.9	463.7	119.2	73.8	69.2	66.1	64.7	64.7	64.0	63.1	62.9
37.5°	687.3	481.0	95.7	68.5	63.6	60.8	59.2	58.7	58.0	56.6	56.4
40°	757.4	507.7	80.6	63.1	58.5	55.7	54.3	52.9	51.0	49.6	49.4
42.5°	845.5	535.2	69.9	57.8	53.6	51.0	49.4	47.0	44.3	42.4	42.2
45°	937.2	560.4	62.7	52.9	48.9	46.8	45.0	41.2	37.7	35.4	35.2
47.5°	1005.7	565.0	56.8	48.2	45.0	42.9	40.3	35.6	31.0	28.9	28.2
50°	1038.1	542.4	50.8	43.6	41.0	38.7	35.4	30.0	24.9	22.4	21.9
52.5°	1049.5	503.3	45.9	39.4	37.0	34.2	30.3	24.2	19.6	17.0	16.8
55°	1044.8	453.9	41.5	35.4	32.4	29.1	25.2	19.3	14.4	12.3	11.9
57.5°	1020.4	391.1	37.0	31.4	27.7	24.5	20.0	14.4	9.8	7.9	7.7
60°	954.5	305.3	32.6	27.0	23.5	20.0	15.8	10.2	6.1	4.4	4.4
62.5°	843.1	226.6	28.4	22.6	19.8	16.1	11.2	6.5	3.3	2.3	2.1
65°	704.5	167.2	23.8	19.1	16.5	12.6	7.9	4.0	1.6	0.7	0.5
67.5°	491.7	103.2	19.8	15.6	13.5	9.1	4.9	1.6	0.7	0.0	0.0
70°	223.4	49.1	15.1	11.9	10.2	6.5	2.6	0.9	0.5	0.0	0.0
72.5°	69.4	25.9	10.7	8.6	7.0	4.2	1.4	0.7	0.5	0.0	0.0
75°	32.1	16.5	6.8	4.7	4.0	2.1	0.9	0.5	0.2	0.0	0.0
77.5°	24.0	12.8	4.0	2.6	2.1	1.4	0.7	0.5	0.2	0.0	0.0
80°	21.0	6.5	2.3	1.6	1.2	0.9	0.5	0.2	0.0	0.0	0.0
82.5°	18.9	3.3	1.4	0.9	0.7	0.5	0.2	0.2	0.0	0.0	0.0
85°	10.2	1.9	0.9	0.7	0.5	0.2	0.2	0.0	0.0	0.0	0.0
87.5°	1.9	0.9	0.7	0.5	0.5	0.2	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)