

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: P522613

Luminaire Tested: **GALN-SA1A-722-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522613
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)
Test Lab: INNOVATION CENTER
Issue Date: 5/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1A-722-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2200K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3404 lumens
Efficiency: N/A
Efficacy: 103.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

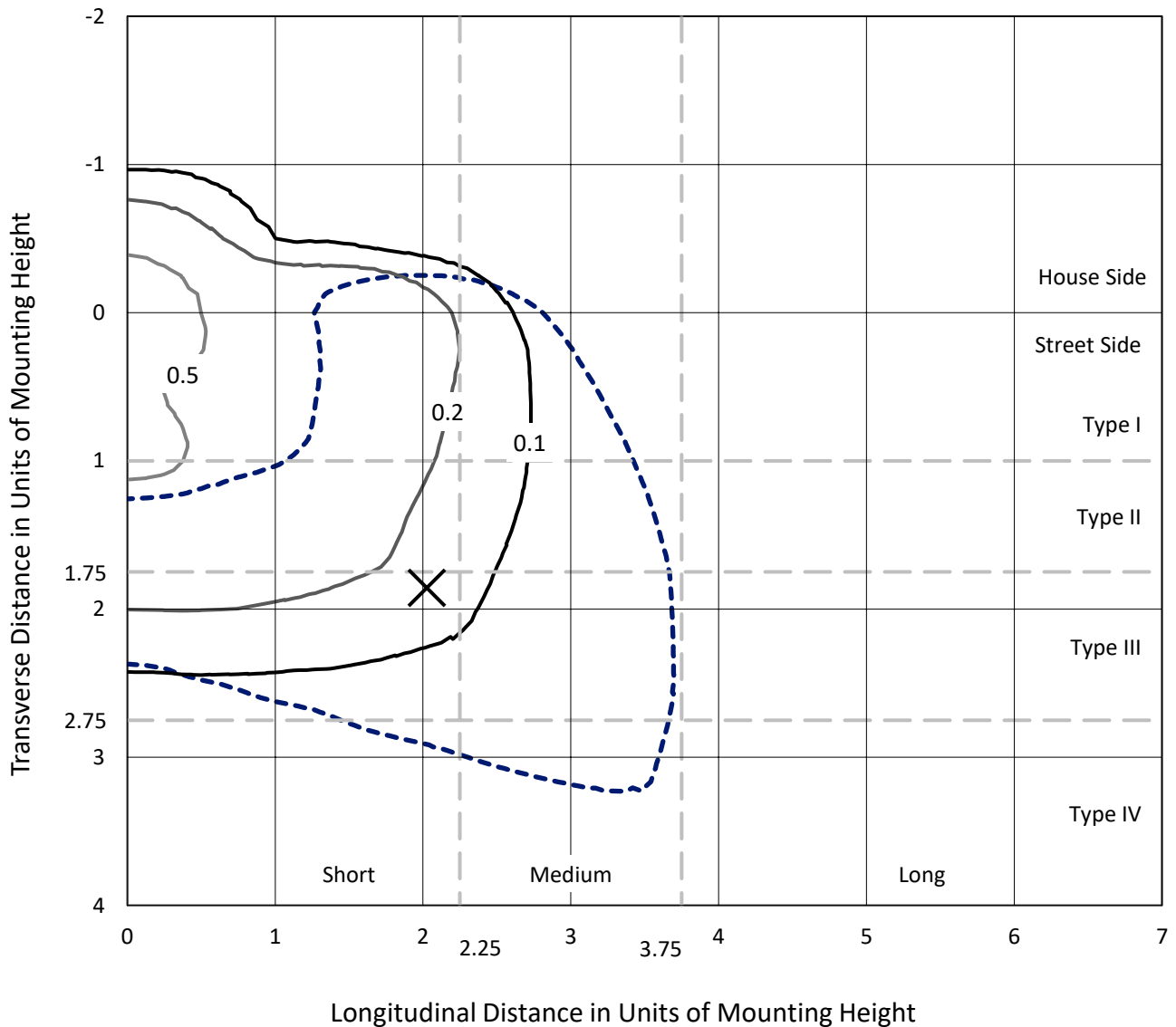
Input Watts (W): 33
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

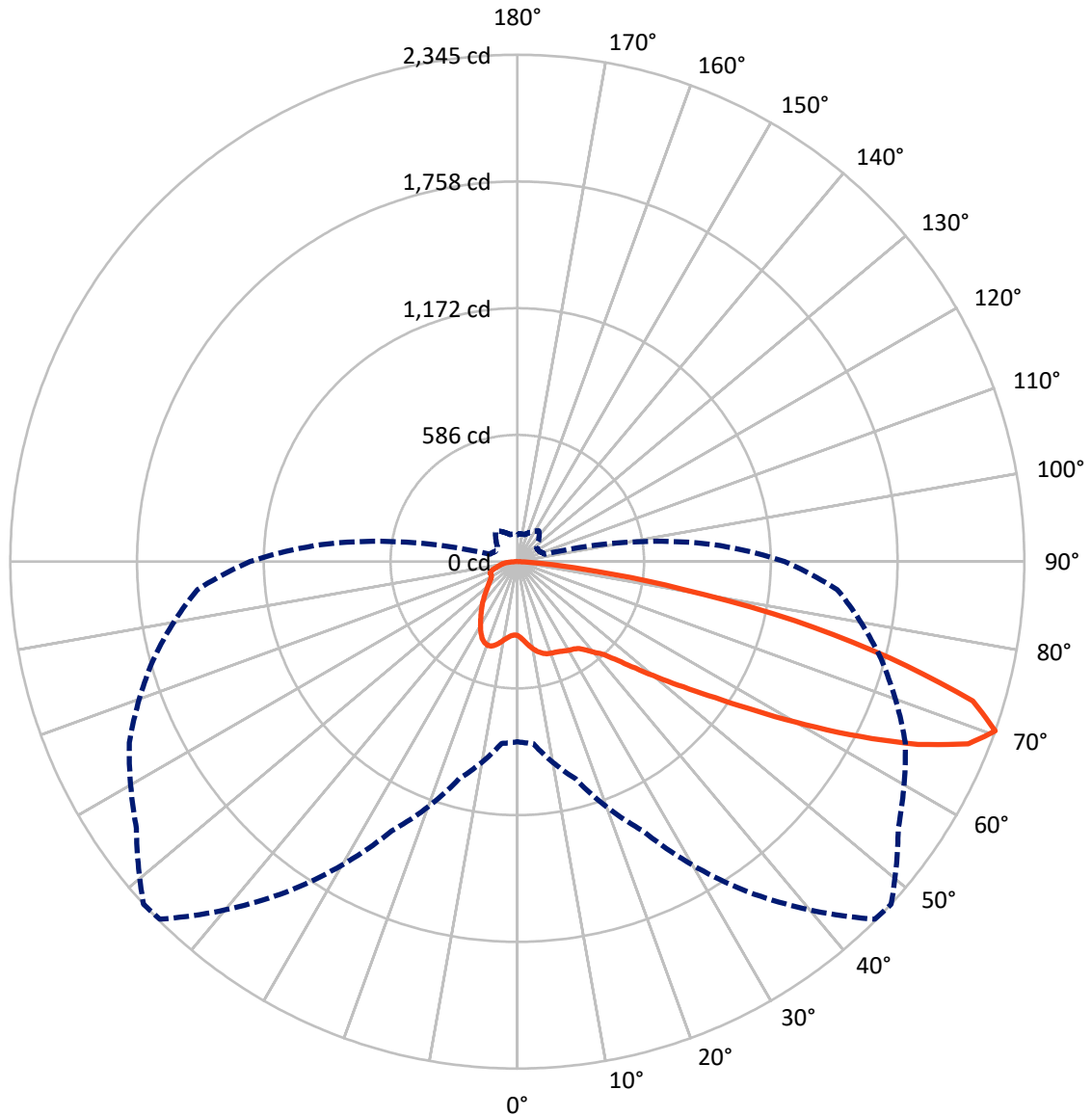
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	770.7	0.0	770.7
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	2633.3	0.0	2633.3
	% Fixture	77.4	0.0	77.4
Total	Lumens	3404.0	0.0	3404.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.2	1.0
10°-20°	117.8	3.5
20°-30°	195.8	5.8
30°-40°	277.6	8.2
40°-50°	409.7	12.0
50°-60°	709.7	20.8
60°-70°	1002.4	29.4
70°-80°	576.3	16.9
80°-90°	79.5	2.3
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°	3404.0	100.0
0°-180°	3404.0	100.0

Coefficient of Utilization



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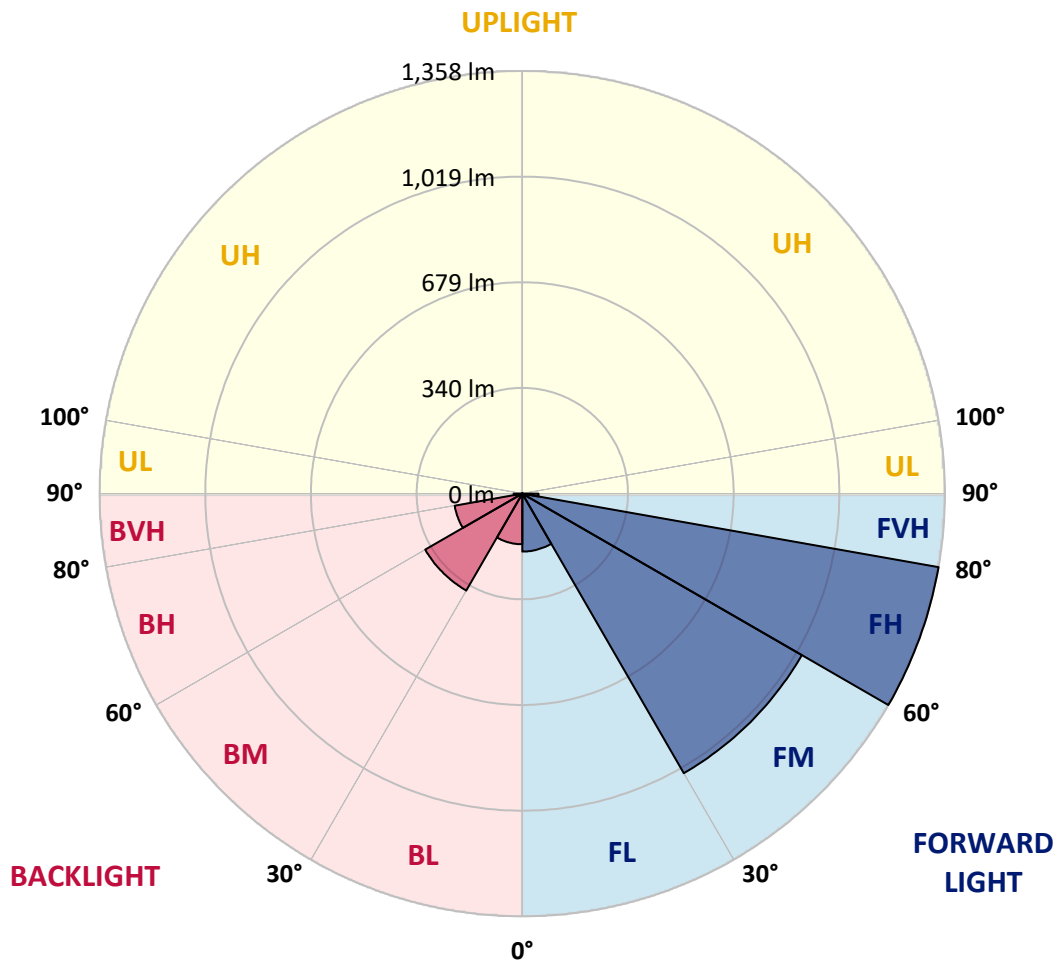
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	186.1	5.5			
FM (30°-60°)	1037.1	30.5			
FH (60°-80°)	1358.1	39.9			G1/1800
FVH (80°-90°)	51.9	1.5			G1/100
BL (0°-30°)	162.7	4.8	B1/500		
BM (30°-60°)	359.8	10.6	B1/1000		
BH (60°-80°)	220.7	6.5	B1/500		G1/500
BVH (80°-90°)	27.6	0.8			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47.5°	55°	65°	75°	85°
0°	341.7	341.7	341.7	341.7	341.7	341.7	341.7	341.7	341.7	341.7	341.7
2.5°	363.8	362.5	362.3	359.6	358.1	355.4	354.3	351.7	348.6	345.5	342.6
5°	392.4	392.4	391.1	387.3	381.2	375.1	372.3	367.4	358.7	351.6	345.5
7.5°	421.7	422.1	419.5	413.9	405.3	395.3	392.7	385.4	373.1	362.7	353.7
10°	447.0	447.0	443.5	435.9	425.1	414.2	411.7	403.5	389.6	376.7	365.0
12.5°	466.3	466.3	461.8	451.7	440.1	430.2	427.3	419.5	406.6	392.2	377.4
15°	478.9	478.0	472.9	461.6	450.3	441.7	439.7	433.2	421.3	406.7	390.2
17.5°	479.4	479.1	474.1	464.7	454.8	449.0	447.7	443.4	434.1	420.2	402.7
20°	468.9	469.6	466.3	459.6	454.8	452.3	451.7	450.3	443.7	430.8	413.3
22.5°	457.6	458.8	455.7	452.1	451.7	454.3	454.7	455.0	450.8	438.3	422.2
25°	454.8	455.7	452.7	449.4	451.4	458.1	459.6	461.0	457.8	447.2	432.8
27.5°	468.7	468.0	461.9	454.8	456.1	465.2	467.2	468.9	467.2	458.1	445.9
30°	507.8	505.5	493.5	472.7	466.1	472.5	474.5	479.1	479.1	472.3	460.1
32.5°	573.4	568.9	546.8	506.0	483.3	479.4	481.4	488.9	492.7	487.4	474.1
35°	653.0	648.3	616.8	561.9	514.6	493.3	492.7	501.1	511.3	499.5	482.2
37.5°	733.0	728.1	690.2	628.6	560.3	522.4	519.1	522.1	526.4	504.7	493.3
40°	813.0	807.1	774.0	703.1	616.2	561.0	552.5	539.4	537.5	522.1	514.8
42.5°	892.2	886.9	870.1	786.7	683.3	598.7	585.6	563.0	570.0	560.7	554.3
45°	972.2	972.5	954.7	880.5	764.1	668.3	650.7	615.3	631.7	628.2	631.9
47.5°	1043.0	1042.1	1035.7	971.6	864.5	757.9	735.2	694.2	722.2	735.0	762.9
50°	1111.7	1111.1	1111.5	1074.9	981.1	864.5	839.4	796.4	859.6	903.8	953.8
52.5°	1210.0	1213.1	1191.1	1181.4	1122.8	990.4	962.7	918.2	1021.9	1091.6	1189.1
55°	1308.8	1306.2	1288.9	1298.9	1271.1	1139.4	1110.4	1075.1	1202.6	1278.9	1425.4
57.5°	1366.9	1367.8	1385.5	1434.5	1454.1	1325.2	1298.9	1271.6	1405.7	1459.8	1635.6
60°	1419.2	1423.4	1474.2	1566.7	1620.1	1553.4	1530.1	1503.5	1592.0	1613.5	1818.1
62.5°	1435.6	1448.5	1537.2	1675.6	1781.8	1811.0	1782.0	1723.4	1769.4	1761.1	1941.8
65°	1353.8	1371.4	1530.5	1716.4	1926.3	2055.4	2037.0	1928.1	1920.6	1870.2	1962.0
67.5°	1138.5	1156.1	1360.3	1630.8	1986.0	2267.1	2248.7	2077.5	2012.4	1880.4	1809.0
70°	833.0	844.1	1039.4	1373.1	1866.0	2338.1	2344.5	2150.3	1979.6	1741.8	1485.3
72.5°	480.0	504.6	641.4	966.0	1524.4	2158.5	2202.8	1998.8	1772.4	1453.0	1038.5
75°	206.4	206.9	296.5	532.8	1032.4	1735.0	1777.8	1656.9	1391.8	1004.8	554.5
77.5°	98.2	100.0	130.4	237.9	568.3	1198.8	1314.2	1170.5	890.2	482.7	209.5
80°	63.8	65.0	79.8	118.0	278.7	695.1	775.6	675.2	392.7	172.5	90.3
82.5°	38.6	39.0	53.4	72.1	153.4	314.8	371.0	293.1	167.6	103.3	53.2
85°	23.5	23.7	32.4	44.6	93.1	108.7	111.7	110.7	98.4	67.6	28.4
87.5°	11.3	11.7	16.8	21.1	36.6	33.7	31.9	37.0	46.4	36.4	12.2
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°	341.7	341.7	341.7	341.7	341.7	341.7	341.7	341.7	341.7	341.7	341.7
2.5°	341.4	340.8	339.5	339.0	338.6	338.8	338.6	338.6	338.8	338.8	338.8
5°	343.0	342.1	340.1	340.1	341.2	343.7	346.1	347.9	349.9	349.7	349.7
7.5°	350.1	348.5	346.1	346.8	349.6	353.6	357.8	361.8	365.8	366.1	365.9
10°	360.5	358.8	356.3	357.2	361.6	367.6	372.9	378.7	383.1	384.3	384.0
12.5°	372.3	369.0	366.9	369.4	376.3	384.3	389.4	393.8	396.9	398.7	398.0
15°	384.3	381.2	378.7	384.0	392.4	399.8	402.4	403.1	403.7	405.5	405.1
17.5°	396.0	391.8	390.9	397.8	405.8	409.1	407.7	404.6	402.2	403.7	403.5
20°	406.4	403.1	402.7	409.7	412.8	409.7	403.5	398.0	393.8	394.2	394.0
22.5°	416.2	413.7	414.0	417.0	412.0	401.5	391.3	383.8	379.2	380.2	380.7
25°	427.2	424.6	425.5	420.8	404.6	386.2	371.4	365.0	363.2	365.0	366.3
27.5°	441.4	439.7	439.2	421.0	391.3	363.6	346.8	344.5	346.1	350.1	352.1
30°	456.7	456.7	453.7	417.9	373.1	336.4	321.9	322.2	327.9	333.5	335.5
32.5°	471.4	474.5	465.4	409.5	349.6	310.0	298.9	299.3	304.2	311.1	312.9
35°	483.6	492.5	475.4	394.2	321.9	287.8	279.4	274.5	274.7	280.0	281.4
37.5°	500.4	517.0	481.3	371.4	292.4	268.9	259.4	250.8	245.2	243.0	243.0
40°	529.5	553.9	482.7	337.7	264.5	250.8	237.3	227.1	216.2	206.4	204.6
42.5°	578.9	609.7	479.8	298.9	239.4	231.0	217.9	205.3	190.2	176.3	175.2
45°	666.3	682.2	472.0	258.7	216.9	211.8	199.1	185.4	169.4	157.0	156.1
47.5°	806.4	784.0	461.6	223.0	196.5	195.1	185.3	169.4	153.4	144.8	143.9
50°	1011.0	944.3	460.1	197.1	180.2	180.9	172.9	158.3	144.3	137.2	136.1
52.5°	1257.2	1137.9	469.8	178.9	165.8	168.5	164.5	151.0	138.6	132.6	131.5
55°	1496.2	1312.1	475.6	164.7	152.3	157.4	157.9	146.6	135.3	129.3	128.6
57.5°	1690.2	1443.2	449.7	151.7	140.6	148.5	152.5	144.1	133.7	129.1	128.4
60°	1825.2	1505.1	376.1	140.3	132.1	141.4	150.5	144.3	137.7	138.3	138.6
62.5°	1868.2	1477.6	282.2	131.7	126.2	139.0	153.7	151.7	145.0	149.2	149.9
65°	1796.9	1364.0	204.6	125.0	121.1	140.6	163.6	157.2	142.4	145.5	145.5
67.5°	1558.5	1175.1	159.2	118.8	115.3	143.7	173.4	156.7	136.4	140.1	136.8
70°	1236.3	908.9	132.6	111.8	109.1	139.2	174.3	151.0	129.3	130.1	123.9
72.5°	820.4	597.6	114.0	105.3	99.6	125.1	166.9	143.7	122.4	118.2	112.0
75°	402.0	298.0	99.5	97.1	87.3	108.9	156.7	136.8	114.9	108.4	104.9
77.5°	155.7	126.8	84.9	86.7	76.0	96.0	143.2	127.0	105.1	96.2	93.4
80°	75.6	72.0	69.6	72.3	62.5	81.8	130.8	118.4	96.0	86.2	82.2
82.5°	47.0	44.4	53.4	56.3	48.1	74.7	124.0	111.1	84.5	71.4	68.1
85°	23.9	25.5	35.7	38.4	34.4	59.4	102.2	83.4	61.0	50.6	51.0
87.5°	9.1	12.2	18.8	20.2	18.4	31.3	56.3	48.6	39.2	26.6	24.6
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)