

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: P522616

Luminaire Tested: **GALN-SA1A-735-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522616
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-735-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4314 lumens
Efficiency: N/A
Efficacy: 130.7 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

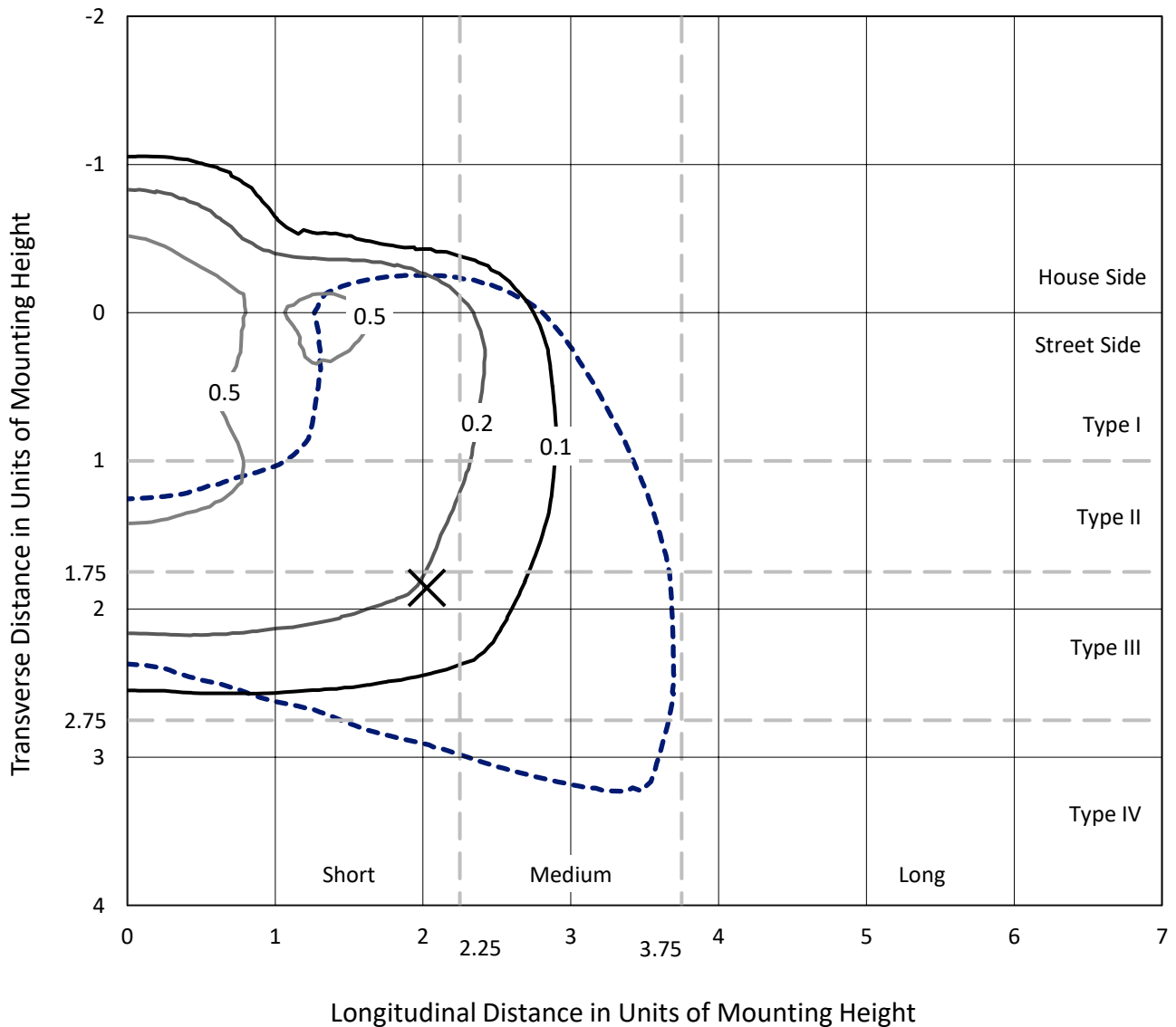
Input Watts (W): 33
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

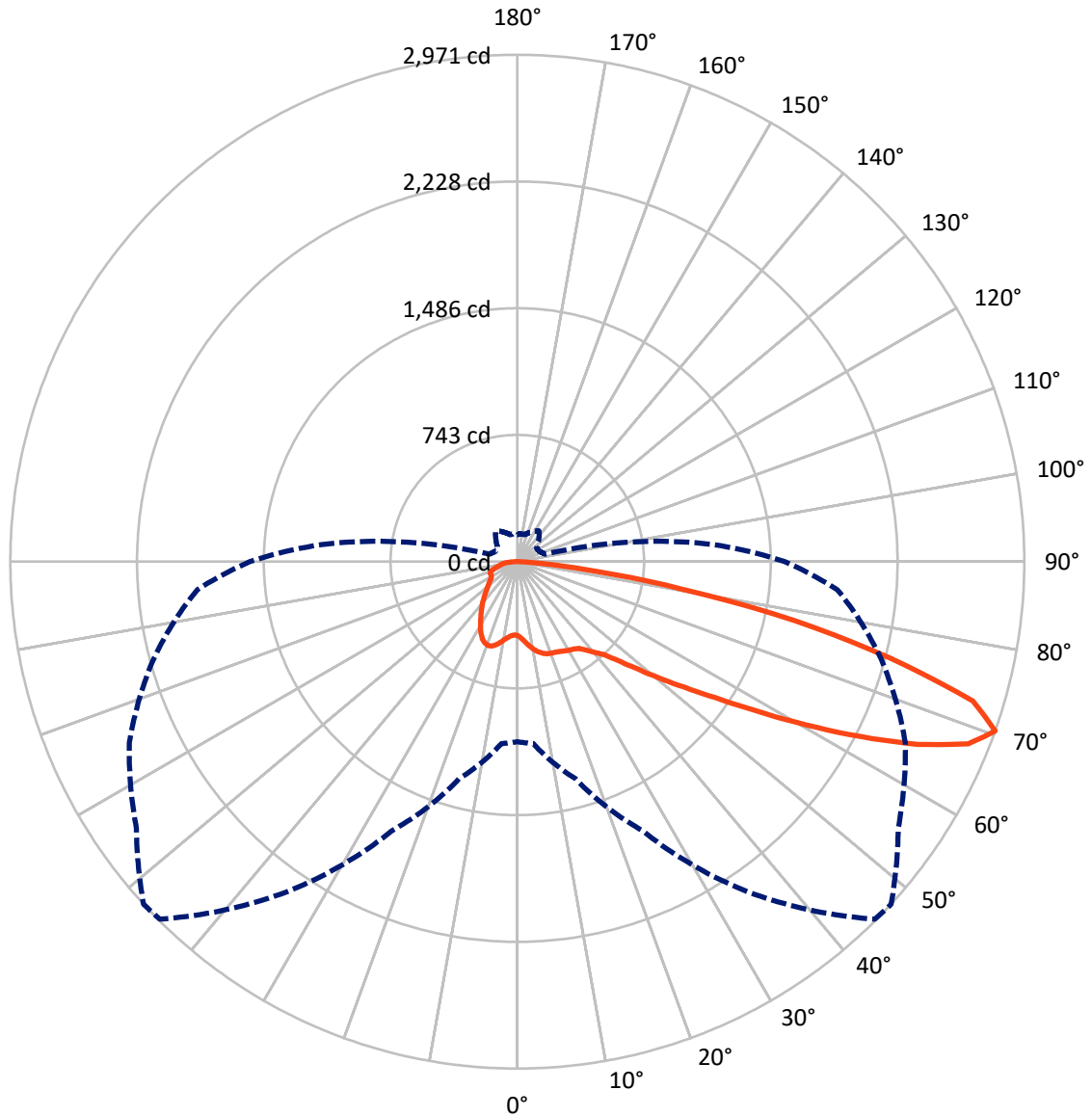
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.9 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	976.8	0.0	976.8
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	3337.2	0.0	3337.2
	% Fixture	77.4	0.0	77.4
Total	Lumens	4314.0	0.0	4314.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.6	1.0
10°-20°	149.2	3.5
20°-30°	248.2	5.8
30°-40°	351.8	8.2
40°-50°	519.3	12.0
50°-60°	899.4	20.8
60°-70°	1270.4	29.4
70°-80°	730.3	16.9
80°-90°	100.8	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°	4314.0	100.0
0°-180°	4314.0	100.0

Coefficient of Utilization

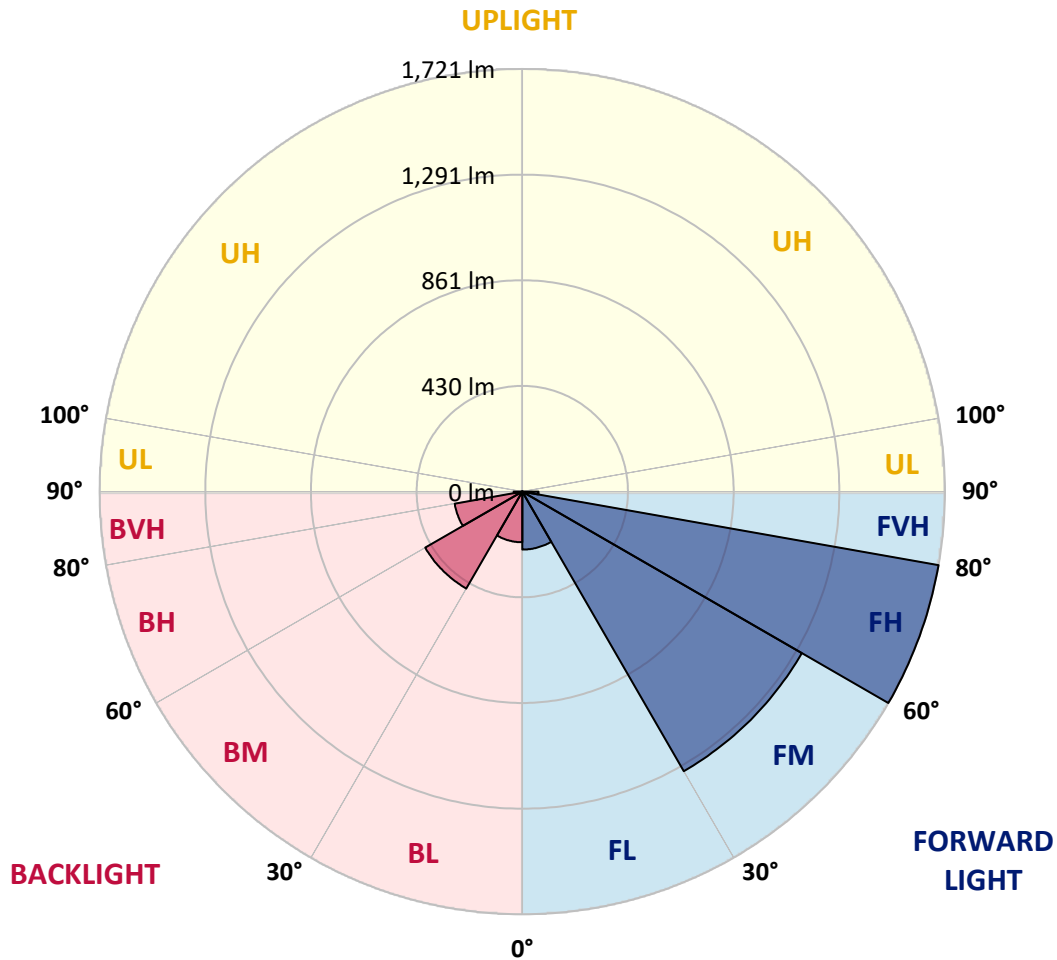


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	235.9	5.5			
FM (30°-60°)	1314.4	30.5			
FH (60°-80°)	1721.1	39.9			G1/1800
FVH (80°-90°)	65.8	1.5			G1/100
BL (0°-30°)	206.2	4.8	B1/500		
BM (30°-60°)	456.0	10.6	B1/1000		
BH (60°-80°)	279.6	6.5	B1/500		G1/500
BVH (80°-90°)	34.9	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°	433.1	433.1	433.1	433.1	433.1	433.1	433.1	433.1	433.1	433.1	433.1
2.5°	461.0	459.4	459.2	455.7	453.9	450.4	449.0	445.8	441.8	437.9	434.2
5°	497.2	497.2	495.6	490.8	483.2	475.3	471.9	465.6	454.5	445.5	437.9
7.5°	534.4	534.9	531.6	524.5	513.6	500.9	497.7	488.5	472.8	459.6	448.3
10°	566.5	566.5	562.1	552.4	538.8	525.0	521.7	511.3	493.8	477.4	462.6
12.5°	591.0	591.0	585.2	572.5	557.7	545.3	541.6	531.6	515.3	497.0	478.3
15°	606.9	605.7	599.3	585.0	570.7	559.8	557.3	549.0	534.0	515.5	494.5
17.5°	607.6	607.1	600.9	588.9	576.4	569.0	567.4	561.9	550.1	532.6	510.4
20°	594.2	595.1	591.0	582.4	576.4	573.2	572.5	570.7	562.3	546.0	523.8
22.5°	579.9	581.5	577.6	573.0	572.5	575.7	576.2	576.7	571.4	555.4	535.1
25°	576.4	577.6	573.7	569.5	572.0	580.6	582.4	584.3	580.1	566.7	548.5
27.5°	594.0	593.1	585.4	576.4	578.0	589.6	592.1	594.2	592.1	580.6	565.1
30°	643.6	640.6	625.4	599.1	590.7	598.8	601.4	607.1	607.1	598.6	583.1
32.5°	726.7	720.9	693.0	641.3	612.4	607.6	610.1	619.6	624.4	617.8	600.9
35°	827.6	821.6	781.7	712.2	652.1	625.1	624.4	635.1	648.0	633.0	611.1
37.5°	928.9	922.7	874.7	796.7	710.1	662.1	657.9	661.6	667.2	639.7	625.1
40°	1030.3	1022.9	980.9	891.1	781.0	711.0	700.2	683.5	681.2	661.6	652.4
42.5°	1130.7	1124.0	1102.8	997.0	865.9	758.8	742.2	713.6	722.3	710.6	702.5
45°	1232.0	1232.5	1209.9	1115.9	968.4	847.0	824.6	779.8	800.6	796.2	800.8
47.5°	1321.8	1320.7	1312.6	1231.4	1095.6	960.6	931.7	879.8	915.3	931.5	966.8
50°	1408.9	1408.2	1408.6	1362.2	1243.4	1095.6	1063.8	1009.3	1089.4	1145.5	1208.7
52.5°	1533.5	1537.5	1509.5	1497.3	1423.0	1255.1	1220.0	1163.7	1295.1	1383.5	1507.0
55°	1658.7	1655.4	1633.5	1646.2	1610.9	1444.0	1407.3	1362.5	1524.1	1620.8	1806.4
57.5°	1732.3	1733.4	1755.8	1817.9	1842.9	1679.4	1646.2	1611.6	1781.5	1850.0	2072.8
60°	1798.5	1803.9	1868.3	1985.5	2053.2	1968.7	1939.1	1905.4	2017.6	2044.9	2304.1
62.5°	1819.3	1835.7	1948.1	2123.6	2258.2	2295.1	2258.4	2184.1	2242.5	2231.9	2460.9
65°	1715.7	1738.1	1939.6	2175.3	2441.2	2604.9	2581.6	2443.5	2434.1	2370.1	2486.5
67.5°	1442.8	1465.2	1724.0	2066.8	2517.0	2873.2	2849.8	2632.8	2550.4	2383.1	2292.6
70°	1055.7	1069.8	1317.2	1740.1	2364.8	2963.2	2971.3	2725.2	2508.9	2207.4	1882.3
72.5°	608.3	639.5	812.8	1224.2	1932.0	2735.6	2791.7	2533.1	2246.2	1841.5	1316.1
75°	261.6	262.2	375.8	675.2	1308.5	2198.8	2253.1	2099.8	1763.9	1273.4	702.7
77.5°	124.4	126.7	165.3	301.5	720.3	1519.2	1665.6	1483.4	1128.2	611.8	265.5
80°	80.8	82.4	101.1	149.6	353.2	880.9	983.0	855.8	497.7	218.6	114.5
82.5°	48.9	49.4	67.6	91.4	194.4	398.9	470.2	371.4	212.4	130.9	67.4
85°	29.8	30.0	41.1	56.6	118.0	137.8	141.5	140.4	124.7	85.6	36.0
87.5°	14.3	14.8	21.2	26.8	46.4	42.7	40.4	46.9	58.9	46.2	15.5
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°	433.1	433.1	433.1	433.1	433.1	433.1	433.1	433.1	433.1	433.1	433.1
2.5°	432.6	431.9	430.3	429.6	429.1	429.4	429.1	429.1	429.4	429.4	429.4
5°	434.7	433.5	431.0	431.0	432.4	435.6	438.6	440.9	443.5	443.2	443.2
7.5°	443.7	441.6	438.6	439.5	443.0	448.1	453.4	458.5	463.5	464.0	463.8
10°	456.9	454.8	451.5	452.7	458.2	465.9	472.5	479.9	485.5	487.1	486.6
12.5°	471.9	467.7	464.9	468.2	476.9	487.1	493.6	499.1	503.0	505.3	504.4
15°	487.1	483.2	479.9	486.6	497.2	506.7	509.9	510.9	511.6	513.9	513.4
17.5°	501.9	496.6	495.4	504.2	514.3	518.5	516.6	512.7	509.7	511.6	511.3
20°	515.0	510.9	510.4	519.2	523.1	519.2	511.3	504.4	499.1	499.6	499.3
22.5°	527.5	524.3	524.7	528.4	522.2	508.8	495.9	486.4	480.6	481.8	482.5
25°	541.3	538.1	539.3	533.3	512.7	489.4	470.7	462.6	460.3	462.6	464.2
27.5°	559.3	557.3	556.6	533.5	495.9	460.8	439.5	436.5	438.6	443.7	446.2
30°	578.7	578.7	575.0	529.6	472.8	426.4	407.9	408.4	415.5	422.7	425.2
32.5°	597.4	601.4	589.8	518.9	443.0	392.9	378.8	379.3	385.5	394.3	396.6
35°	612.9	624.2	602.5	499.6	407.9	364.7	354.1	347.9	348.1	354.8	356.7
37.5°	634.1	655.2	609.9	470.7	370.5	340.7	328.7	317.9	310.7	308.0	308.0
40°	671.1	702.0	611.8	428.0	335.2	317.9	300.8	287.9	274.0	261.6	259.2
42.5°	733.6	772.7	608.1	378.8	303.3	292.7	276.1	260.2	241.0	223.5	222.1
45°	844.4	864.5	598.1	327.8	274.9	268.5	252.3	235.0	214.7	199.0	197.8
47.5°	1022.0	993.6	585.0	282.6	249.1	247.2	234.8	214.7	194.4	183.5	182.4
50°	1281.2	1196.7	583.1	249.8	228.3	229.2	219.1	200.6	182.8	173.8	172.4
52.5°	1593.3	1442.1	595.4	226.7	210.1	213.5	208.5	191.4	175.7	168.1	166.7
55°	1896.2	1662.8	602.7	208.7	193.0	199.5	200.1	185.8	171.5	163.9	163.0
57.5°	2142.1	1829.0	570.0	192.3	178.2	188.1	193.2	182.6	169.4	163.7	162.7
60°	2313.1	1907.5	476.7	177.8	167.4	179.1	190.7	182.8	174.5	175.2	175.7
62.5°	2367.6	1872.7	357.6	166.9	160.0	176.1	194.8	192.3	183.8	189.1	190.0
65°	2277.3	1728.6	259.2	158.4	153.5	178.2	207.3	199.2	180.5	184.4	184.4
67.5°	1975.1	1489.2	201.8	150.5	146.1	182.1	219.8	198.5	172.9	177.5	173.4
70°	1566.8	1151.9	168.1	141.7	138.3	176.4	220.9	191.4	163.9	164.8	157.0
72.5°	1039.7	757.4	144.5	133.4	126.3	158.6	211.5	182.1	155.1	149.8	142.0
75°	509.5	377.7	126.0	123.0	110.6	138.0	198.5	173.4	145.7	137.4	133.0
77.5°	197.4	160.7	107.6	109.9	96.3	121.7	181.4	160.9	133.2	121.9	118.4
80°	95.8	91.2	88.2	91.6	79.2	103.7	165.7	150.1	121.7	109.2	104.1
82.5°	59.6	56.3	67.6	71.3	60.9	94.6	157.2	140.8	107.1	90.5	86.3
85°	30.2	32.3	45.2	48.7	43.6	75.3	129.5	105.7	77.3	64.2	64.6
87.5°	11.5	15.5	23.8	25.6	23.3	39.7	71.3	61.6	49.6	33.7	31.2
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)