

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: P450593

Luminaire Tested: **GALN-SA1B-827-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450593
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1B-827-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV FORWARD
THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4223 lumens
Efficiency: N/A
Efficacy: 96.0 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

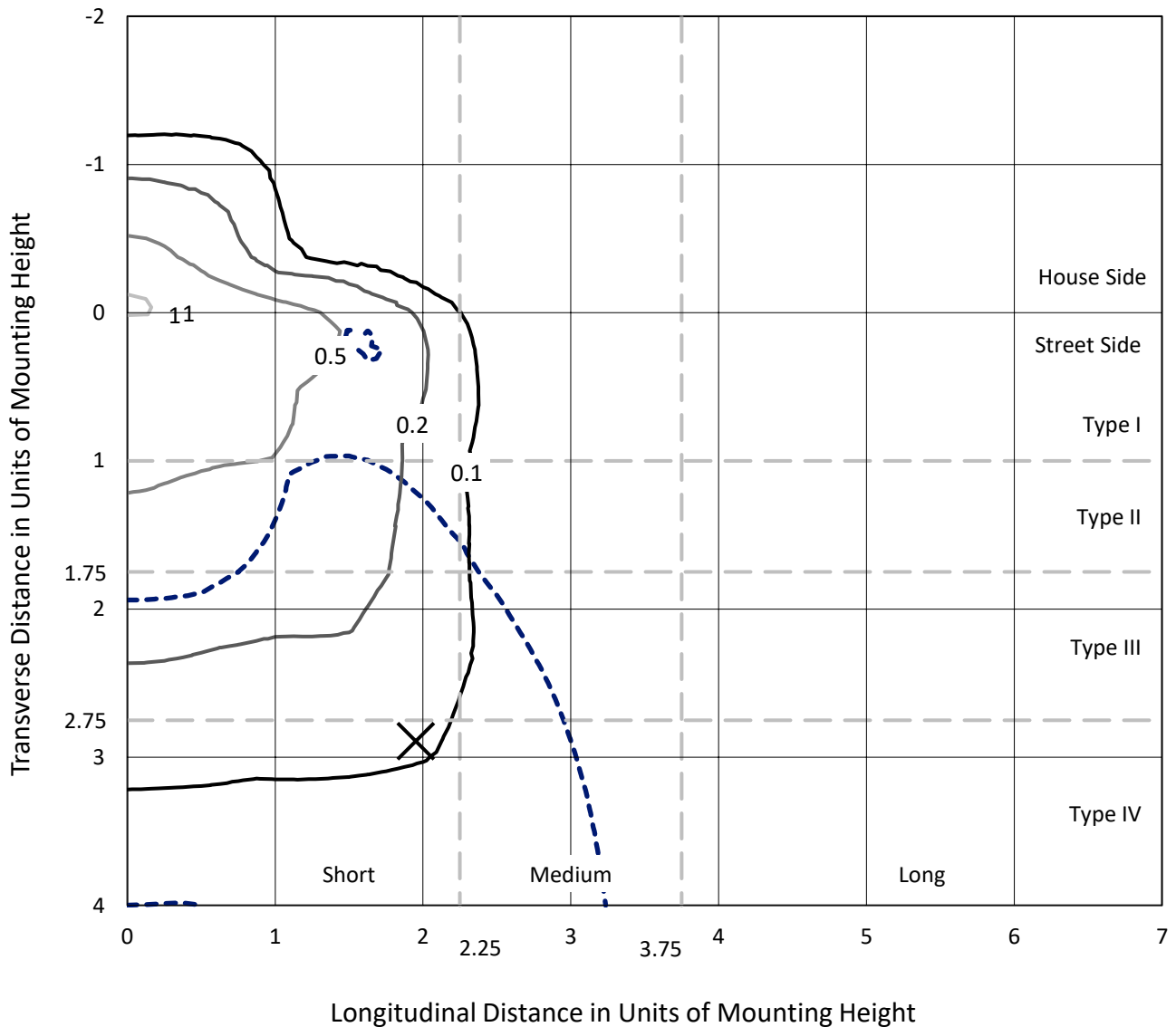
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

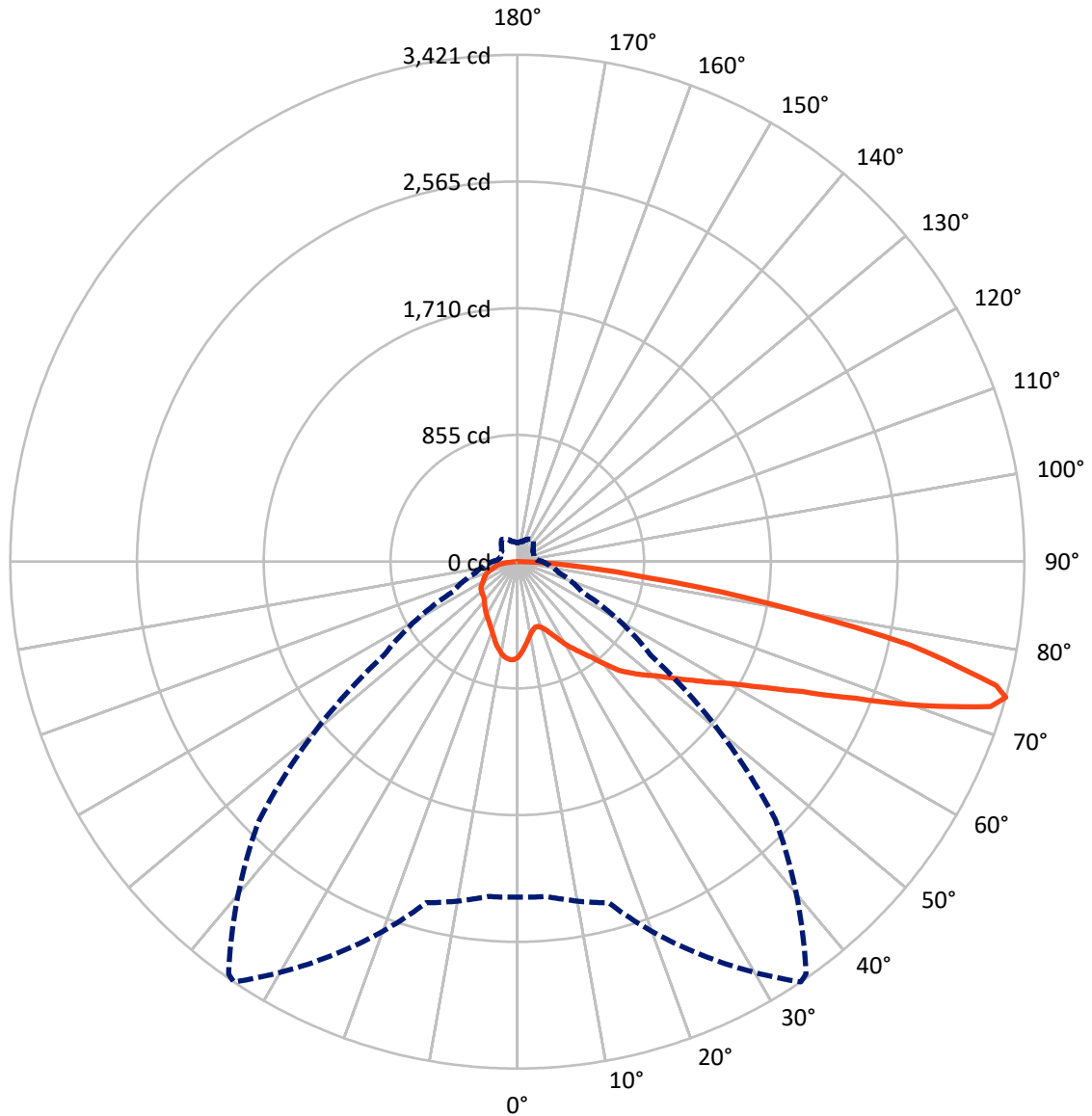
× Max cd
 - - - 1/2 Max cd



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 34-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	898.7	0.0	898.7
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	3324.3	0.0	3324.3
	% Fixture	78.7	0.0	78.7
Total	Lumens	4223.0	0.0	4223.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.6	1.4
10°-20°	160.5	3.8
20°-30°	264.7	6.3
30°-40°	396.4	9.4
40°-50°	576.3	13.6
50°-60°	805.0	19.1
60°-70°	1007.8	23.9
70°-80°	833.3	19.7
80°-90°	120.4	2.9
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°	4223.0	100.0
0°-180°	4223.0	100.0

Coefficient of Utilization



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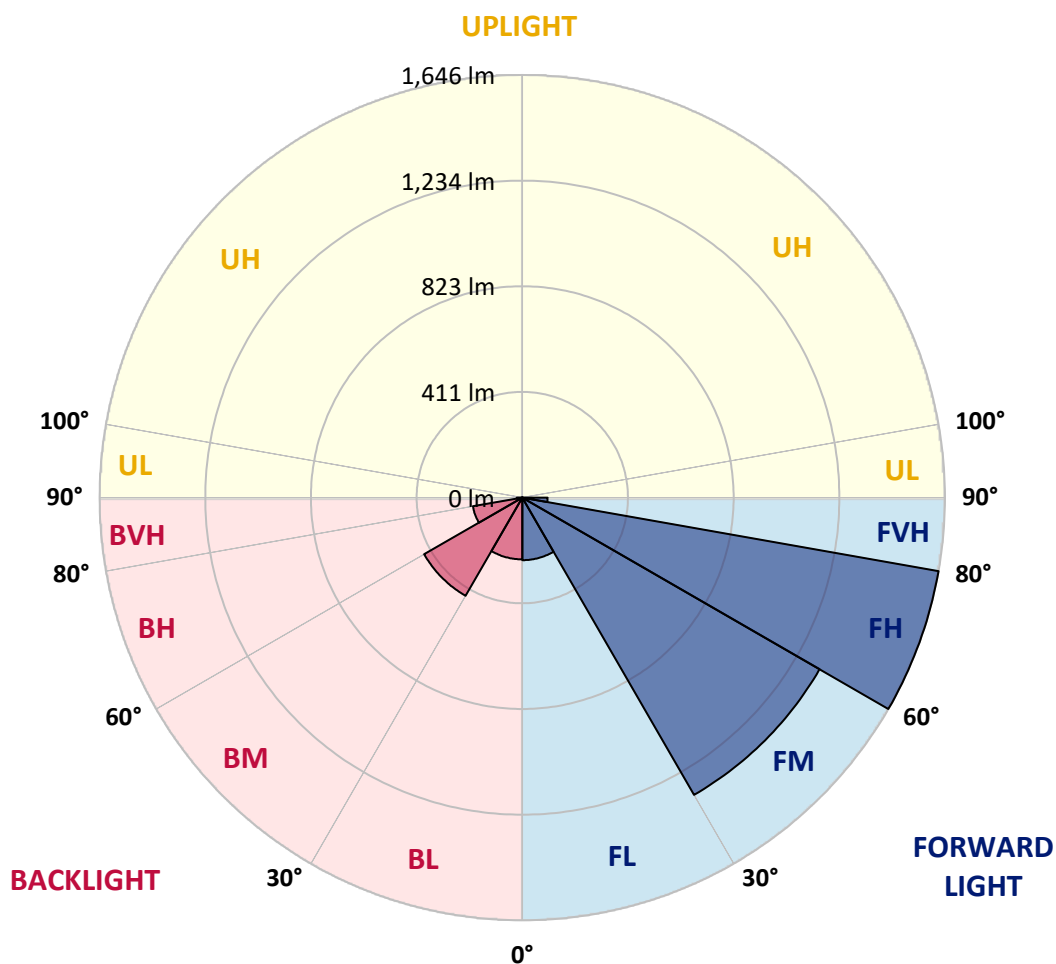
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	243.4	5.8			
FM (30°-60°)	1336.3	31.6			
FH (60°-80°)	1645.9	39.0			G1/1800
FVH (80°-90°)	98.6	2.3			G1/100
BL (0°-30°)	240.4	5.7	B1/500		
BM (30°-60°)	441.4	10.5	B1/1000		
BH (60°-80°)	195.2	4.6	B1/500		G1/500
BVH (80°-90°)	21.8	0.5			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°	34°	35°	45°	55°	65°	75°	85°
0°	644.8	644.8	644.8	644.8	644.8	644.8	644.8	644.8	644.8	644.8	644.8
2.5°	595.9	598.9	600.6	606.4	607.8	609.7	614.6	621.1	629.6	637.0	643.6
5°	546.3	551.0	553.8	558.9	569.0	569.9	583.0	598.0	615.1	631.0	644.1
7.5°	499.3	504.4	506.7	516.1	529.4	531.5	550.7	574.3	602.9	627.0	647.1
10°	463.9	466.5	471.6	478.7	494.6	496.0	521.0	552.6	589.6	625.1	652.3
12.5°	444.7	446.1	447.3	454.8	470.5	472.6	498.8	534.6	579.0	626.5	660.7
15°	447.5	448.0	442.9	444.3	456.9	459.9	485.9	522.6	572.5	630.0	673.3
17.5°	471.2	469.5	456.9	450.4	459.2	460.6	483.3	518.0	569.4	636.6	686.4
20°	508.4	506.0	484.3	469.8	474.9	476.1	491.8	521.5	572.5	647.3	706.8
22.5°	554.7	553.8	520.8	503.2	503.0	503.0	511.2	534.1	581.6	662.1	728.1
25°	619.5	614.6	571.5	548.8	542.5	542.1	541.1	554.9	593.3	677.8	753.3
27.5°	685.9	677.5	639.2	604.3	590.7	589.1	583.0	584.4	608.3	695.5	782.1
30°	745.6	740.2	704.2	665.6	649.4	645.7	628.9	621.1	633.3	727.6	828.0
32.5°	791.2	787.9	759.9	724.8	700.9	700.2	675.7	669.3	672.4	766.4	880.4
35°	828.2	829.4	815.1	784.7	757.3	753.3	736.9	729.0	720.1	822.6	946.3
37.5°	878.7	881.3	880.4	854.2	820.7	821.6	817.9	804.8	781.2	885.3	1019.6
40°	934.4	936.3	936.0	926.0	908.4	909.4	908.0	893.0	857.7	965.0	1101.0
42.5°	1011.4	1002.5	979.3	989.4	999.7	1004.1	1013.7	999.4	951.0	1050.2	1177.5
45°	1097.5	1080.6	1028.2	1032.9	1071.0	1079.4	1132.3	1112.7	1052.3	1148.0	1267.5
47.5°	1151.7	1135.1	1090.9	1090.0	1140.5	1148.7	1242.3	1235.0	1144.5	1253.5	1377.5
50°	1200.2	1197.8	1148.0	1159.9	1209.3	1221.5	1362.1	1355.3	1236.4	1378.0	1497.3
52.5°	1272.0	1253.0	1213.3	1237.8	1303.1	1319.0	1480.9	1461.0	1320.9	1487.9	1613.6
55°	1304.3	1299.8	1297.5	1318.8	1408.4	1419.8	1596.5	1550.9	1392.9	1581.0	1702.0
57.5°	1390.6	1382.4	1405.6	1420.1	1532.4	1549.9	1717.2	1644.7	1456.1	1655.0	1745.0
60°	1502.4	1498.0	1519.3	1545.5	1670.9	1697.5	1854.8	1724.7	1506.9	1692.2	1721.4
62.5°	1669.5	1669.0	1665.0	1721.2	1867.2	1891.7	2012.7	1802.6	1514.8	1664.3	1599.3
65°	1909.0	1900.6	1866.0	1927.3	2111.4	2140.2	2177.1	1846.1	1466.9	1521.4	1346.6
67.5°	2159.6	2159.1	2131.1	2210.6	2462.1	2491.8	2382.8	1836.5	1333.8	1232.5	956.4
70°	2367.3	2357.3	2393.1	2605.0	2910.1	2944.5	2562.7	1723.5	1062.4	813.9	568.3
72.5°	2417.2	2417.6	2492.0	2909.2	3340.4	3345.7	2627.5	1396.9	711.0	449.0	284.3
74°	2263.7	2267.7	2383.0	2924.4	3420.6	3396.3	2461.9	1097.9	480.8	293.1	204.9
75°	2066.3	2041.2	2208.0	2823.1	3337.3	3311.1	2267.9	881.1	366.8	234.2	179.4
77.5°	1104.7	1130.2	1387.6	2106.7	2711.3	2681.1	1537.8	422.5	198.2	163.1	129.1
80°	393.3	433.7	609.7	1102.4	1738.3	1747.6	733.9	193.7	139.4	120.3	91.2
82.5°	160.5	164.9	261.8	489.2	882.7	891.1	299.7	115.1	99.7	82.8	54.5
85°	62.7	64.6	115.8	219.9	376.7	401.2	103.6	60.8	61.3	47.5	27.8
87.5°	21.1	23.9	47.5	73.2	128.0	125.4	30.2	18.0	22.0	20.6	8.7
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°	644.8	644.8	644.8	644.8	644.8	644.8	644.8	644.8	644.8	644.8	644.8
2.5°	646.9	651.3	654.4	657.6	660.7	661.6	660.9	663.0	663.3	663.5	663.7
5°	650.6	656.7	662.5	665.8	667.2	666.1	662.1	660.0	658.1	656.7	657.2
7.5°	655.8	664.4	669.8	671.2	667.5	662.1	652.3	644.5	639.6	636.3	636.1
10°	663.7	672.1	676.6	672.6	662.3	649.2	633.8	619.3	608.3	605.0	604.8
12.5°	673.8	683.4	683.1	671.4	653.4	630.0	605.0	588.2	573.2	565.7	568.7
15°	686.9	694.1	687.3	666.3	637.8	605.7	574.8	551.9	535.0	527.1	527.6
17.5°	702.1	708.4	690.4	657.2	615.8	574.6	538.8	517.0	503.7	497.8	497.4
20°	721.0	722.9	690.4	641.3	587.5	538.3	504.2	489.0	481.5	478.4	479.4
22.5°	741.4	737.6	686.6	618.8	550.3	500.4	477.5	470.7	467.0	466.5	467.0
25°	764.3	753.8	678.9	588.4	511.4	467.7	454.3	455.5	456.2	456.2	457.8
27.5°	792.4	771.3	666.1	550.0	466.0	437.3	433.5	441.7	445.4	446.1	447.3
30°	829.4	790.5	644.8	502.1	427.4	409.9	416.4	427.4	431.6	434.2	433.7
32.5°	873.3	811.6	616.0	454.1	396.3	390.7	398.7	409.9	414.6	416.0	414.1
35°	925.0	835.4	578.1	409.2	369.2	372.4	381.8	385.3	389.5	389.5	390.5
37.5°	980.7	854.6	531.8	368.0	348.1	360.1	366.8	363.6	361.7	359.3	360.5
40°	1037.3	868.9	471.6	327.3	327.1	347.2	349.1	339.7	332.2	329.9	328.7
42.5°	1086.7	877.8	417.4	295.7	307.2	334.5	336.0	321.0	309.0	302.0	299.7
45°	1145.0	888.1	364.3	269.5	288.7	324.5	328.0	307.9	290.3	275.6	271.9
47.5°	1224.7	911.5	322.4	249.2	275.4	318.2	323.1	297.1	274.0	254.8	251.7
50°	1314.8	943.5	289.9	235.4	265.1	312.6	318.6	286.1	258.7	237.5	235.1
52.5°	1397.4	960.8	261.8	223.0	255.0	302.3	312.8	278.2	243.8	220.1	218.0
55°	1442.5	932.8	234.2	210.8	241.2	288.9	304.6	267.2	229.3	211.0	208.0
57.5°	1448.6	874.7	209.2	197.7	226.7	272.6	289.4	253.8	219.9	204.7	202.1
60°	1401.6	788.2	189.7	186.9	212.0	254.1	272.3	242.1	210.3	197.7	195.1
62.5°	1284.6	694.1	176.2	177.1	197.0	234.7	259.7	230.9	201.2	190.0	187.6
65°	1083.4	572.9	163.1	167.0	183.7	219.4	248.2	221.6	192.1	184.1	182.0
67.5°	752.6	413.6	152.3	156.5	171.0	204.0	234.9	211.5	181.8	177.6	174.3
70°	416.7	254.5	139.7	144.6	157.9	186.7	219.9	196.3	166.8	164.9	160.3
72.5°	219.0	162.1	125.4	130.8	140.1	164.5	197.0	179.7	152.1	144.1	138.0
74°	171.0	132.9	115.8	121.4	127.7	151.4	183.4	167.7	141.5	132.2	127.5
75°	149.0	118.4	107.6	114.9	120.5	142.5	172.9	159.3	135.7	126.8	122.6
77.5°	105.3	88.7	88.0	96.6	99.7	124.9	155.8	145.0	121.0	111.6	107.6
80°	73.9	66.4	69.7	75.1	79.3	110.4	144.6	125.4	99.2	88.2	86.8
82.5°	48.2	43.5	49.8	54.7	56.1	81.4	116.7	95.2	72.3	58.7	54.5
85°	22.2	21.8	28.5	27.8	27.6	39.8	69.2	55.7	41.6	31.1	29.2
87.5°	5.6	5.4	7.0	5.8	7.0	6.1	6.3	1.6	0.2	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)