

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: STREETWORKS

Report Number: P268204

Luminaire Tested: **GAN-AF-01-LED-U-SL4-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268204
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24294)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-01-LED-U-SL4-7027-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4156.5 lumens
Efficiency: N/A
Efficacy: 94.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

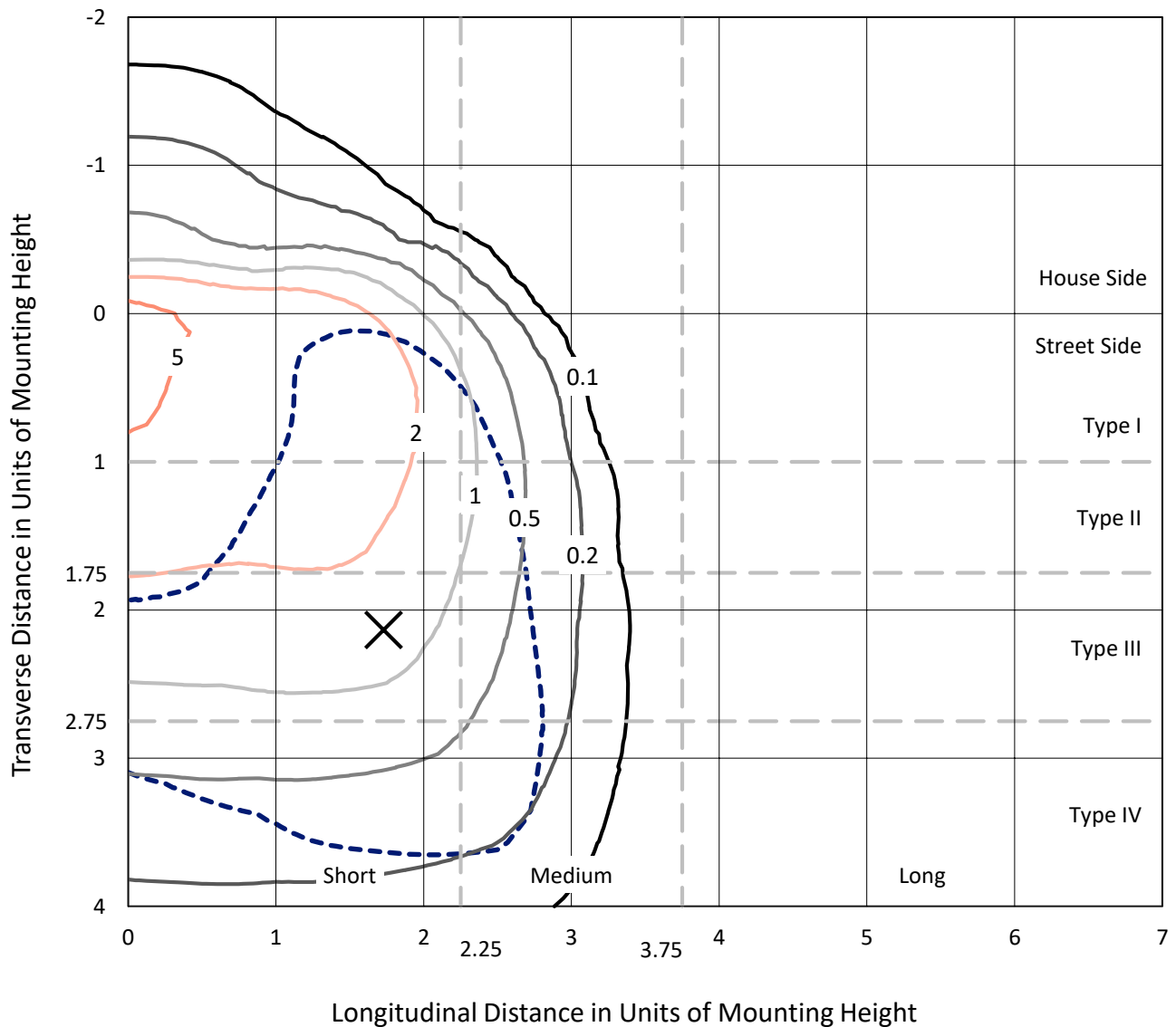
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

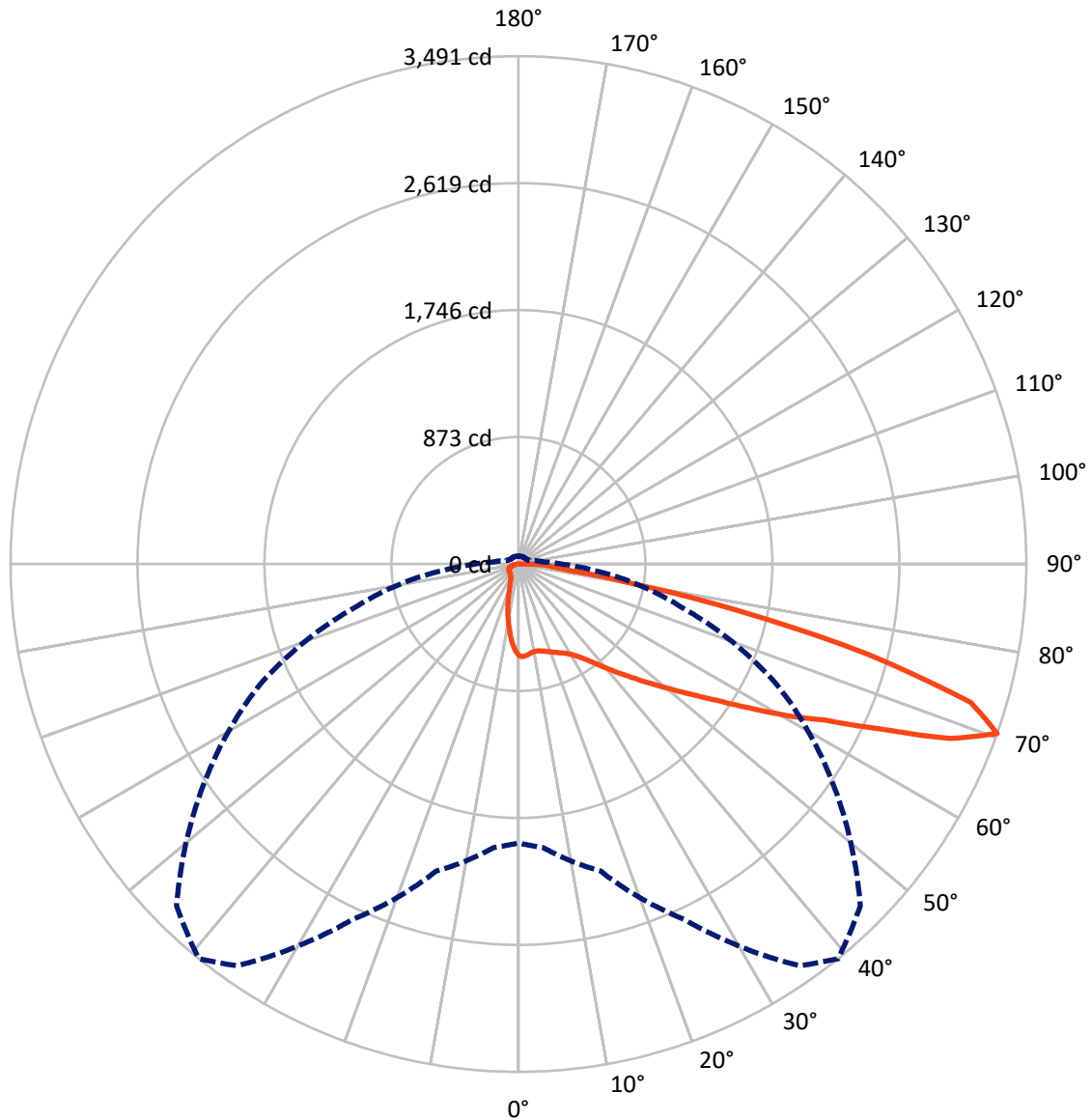


Based on 10 foot mounting height. Maximum calculated value = 6.3 fc
 Type IV - Short - Semi-Cutoff

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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	472.7	0.0	472.7
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	3683.8	0.0	3683.8
	% Fixture	88.6	0.0	88.6
Total	Lumens	4156.5	0.0	4156.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.2	1.3
10°-20°	135.4	3.3
20°-30°	210.8	5.1
30°-40°	328.3	7.9
40°-50°	551.2	13.3
50°-60°	875.7	21.1
60°-70°	1168.0	28.1
70°-80°	705.3	17.0
80°-90°	127.7	3.1
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°	4156.5	100.0
0°-180°	4156.5	100.0

Coefficient of Utilization



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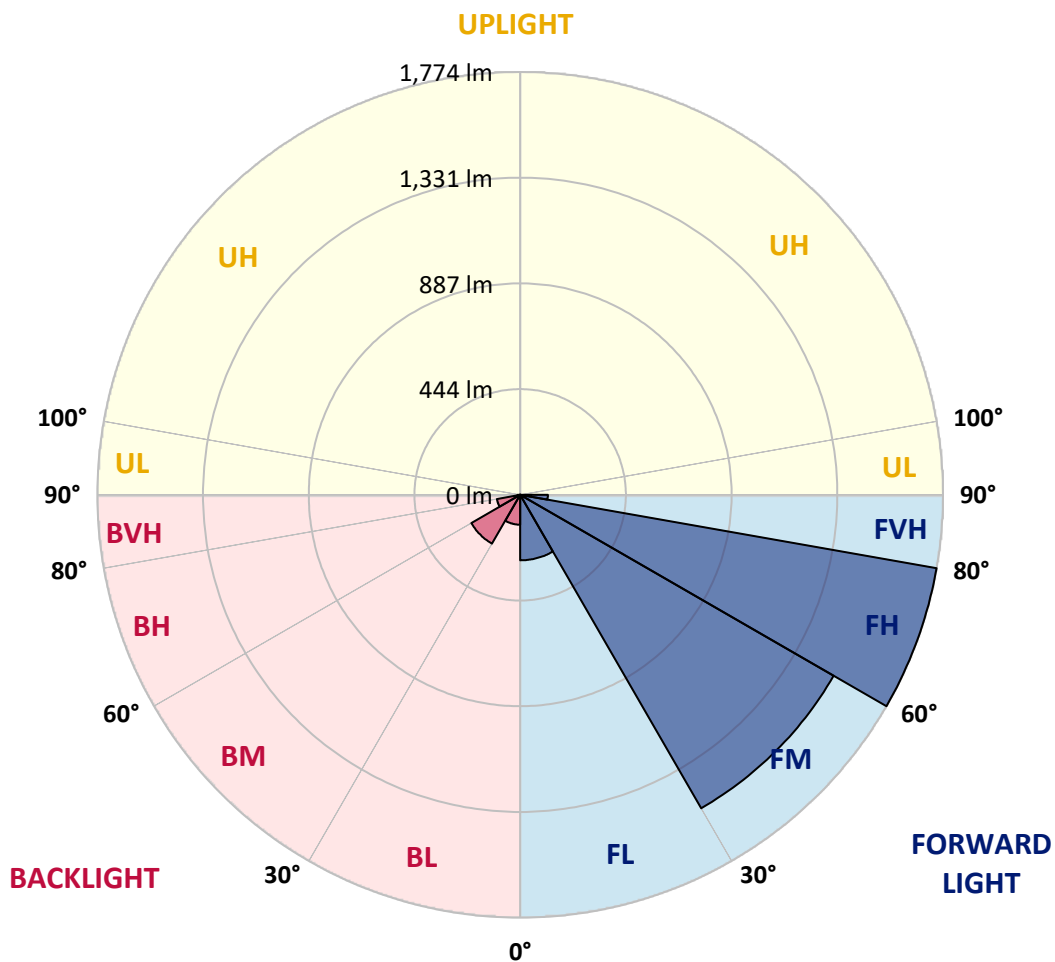
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	274.9	6.6			
FM	(30°-60°)	1518.6	36.5			
FH	(60°-80°)	1774.1	42.7			G1/1800
FVH	(80°-90°)	116.2	2.8			G2/225
BL	(0°-30°)	125.4	3.0	B1/500		
BM	(30°-60°)	236.6	5.7	B1/1000		
BH	(60°-80°)	99.2	2.4	B0/110		G0/110
BVH	(80°-90°)	11.5	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	631.0	631.0	631.0	631.0	631.0	631.0	631.0	631.0	631.0	631.0	631.0
2.5°	643.2	643.0	641.4	640.1	639.1	638.6	639.6	636.3	633.6	630.3	626.6
5°	638.4	638.2	635.6	632.9	630.4	629.5	629.4	623.7	620.3	615.2	608.4
7.5°	633.1	632.0	628.5	624.2	619.8	617.8	615.6	608.2	604.4	599.3	591.5
10°	627.6	626.4	623.1	618.8	614.5	611.3	607.9	600.5	596.6	592.8	583.7
12.5°	621.9	620.9	620.0	618.2	615.2	612.5	609.7	603.5	599.3	594.9	584.3
15°	621.1	620.6	622.5	623.9	622.2	620.5	617.6	612.3	607.9	603.3	589.6
17.5°	627.8	627.6	632.4	635.9	635.0	632.0	628.0	622.2	618.6	614.8	597.6
20°	642.6	643.7	649.7	654.1	649.8	645.6	639.1	630.8	629.0	627.2	605.8
22.5°	670.6	671.7	675.9	677.5	666.5	660.4	651.4	640.8	639.6	640.8	615.8
25°	714.2	713.1	712.4	706.1	685.9	676.5	664.8	653.8	654.4	660.3	629.7
27.5°	771.7	766.1	757.2	738.1	706.2	695.6	681.5	671.5	675.4	686.5	650.7
30°	831.7	825.3	804.7	773.7	732.8	721.2	705.3	694.0	704.6	721.9	678.6
32.5°	886.9	886.1	856.2	816.2	769.7	759.5	743.6	730.9	747.8	774.2	720.4
35°	947.4	949.2	913.3	865.3	819.3	808.7	797.3	787.6	810.5	846.8	781.0
37.5°	1012.1	1015.9	973.5	919.2	875.9	871.5	864.8	860.5	895.8	946.2	865.8
40°	1098.4	1094.7	1035.7	980.1	945.5	945.2	943.2	948.3	1007.0	1075.9	974.7
42.5°	1191.1	1179.8	1102.0	1045.4	1021.8	1029.0	1033.2	1053.9	1140.8	1233.6	1107.4
45°	1290.9	1265.6	1170.5	1114.5	1106.5	1121.8	1136.0	1181.1	1298.2	1412.9	1252.7
47.5°	1370.5	1346.2	1241.5	1187.0	1204.5	1227.7	1255.3	1326.4	1474.5	1598.3	1396.2
50°	1433.2	1417.3	1313.2	1271.6	1312.6	1348.0	1393.4	1491.1	1657.9	1778.7	1529.2
52.5°	1494.2	1482.3	1385.5	1358.1	1439.4	1488.4	1549.8	1667.9	1845.9	1956.2	1640.9
55°	1549.0	1540.7	1463.2	1466.3	1588.6	1652.4	1729.7	1869.1	2051.0	2114.6	1735.6
57.5°	1611.0	1600.2	1552.0	1601.7	1780.3	1863.1	1963.7	2095.1	2243.2	2255.4	1807.7
60°	1673.4	1664.0	1650.5	1758.1	2023.7	2110.7	2206.1	2314.3	2438.3	2364.6	1803.4
62.5°	1727.4	1728.5	1752.4	1922.3	2262.1	2362.9	2479.1	2586.0	2614.7	2383.7	1670.2
65°	1819.2	1835.9	1907.0	2154.8	2597.7	2732.6	2875.1	2858.0	2663.7	2205.9	1384.2
67.5°	1928.2	1957.5	2101.9	2464.5	3021.8	3200.8	3255.9	2919.5	2468.2	1793.1	986.7
70°	1917.3	1957.5	2185.9	2695.5	3371.3	3491.4	3324.0	2642.3	1959.9	1171.4	524.2
72.5°	1702.5	1760.1	2014.5	2589.6	3261.2	3250.6	2885.7	1969.9	1164.5	470.4	204.8
75°	1297.6	1355.9	1574.8	2045.9	2577.5	2488.8	2047.5	1088.1	441.8	186.8	129.1
77.5°	746.4	791.6	960.6	1254.7	1635.3	1544.1	1139.7	483.9	215.1	130.2	100.8
80°	416.8	441.8	544.6	636.4	801.4	734.5	510.0	300.8	160.5	94.4	77.8
82.5°	329.5	351.9	440.3	401.5	366.0	337.8	292.8	267.8	128.3	59.6	46.5
85°	287.8	309.1	372.7	316.2	250.0	229.2	238.0	263.6	99.7	35.9	39.7
87.5°	266.6	295.3	332.3	243.7	194.7	172.5	219.5	288.9	32.1	22.4	16.1
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°	631.0	631.0	631.0	631.0	631.0	631.0	631.0	631.0	631.0	631.0	631.0
2.5°	623.5	620.0	614.5	609.7	602.0	598.0	593.6	590.5	587.9	585.9	589.2
5°	604.2	597.8	586.2	573.7	558.9	547.3	537.6	528.6	522.3	518.0	520.9
7.5°	586.1	575.6	557.5	534.9	509.5	488.0	470.3	454.5	443.9	436.8	439.6
10°	575.6	562.8	534.8	499.2	461.8	428.1	400.3	376.2	359.5	350.0	351.4
12.5°	573.1	556.4	517.6	468.7	417.6	370.9	331.6	298.1	274.7	262.5	262.9
15°	575.0	553.6	501.4	439.6	375.0	315.9	266.8	226.4	199.1	185.1	185.0
17.5°	578.1	551.6	484.5	408.1	331.6	263.2	208.3	168.6	144.5	133.4	132.5
20°	581.7	548.1	465.5	374.1	286.6	214.1	163.1	132.1	116.9	110.8	110.3
22.5°	586.5	545.2	445.9	338.1	242.5	174.4	134.1	113.2	105.2	102.0	101.7
25°	594.3	543.7	425.0	300.8	202.7	145.9	116.9	103.9	99.4	97.1	96.9
27.5°	607.3	545.9	405.3	264.5	170.3	126.7	107.2	99.4	95.9	94.1	93.9
30°	624.2	552.4	384.7	230.0	145.2	113.5	101.1	96.2	93.5	91.4	91.4
32.5°	652.3	563.3	362.8	200.1	127.2	104.5	96.7	93.5	91.1	89.7	89.4
35°	693.9	584.1	342.6	175.3	114.4	97.8	93.0	90.5	88.8	87.9	87.9
37.5°	754.0	616.9	324.6	157.7	106.4	93.5	89.4	87.5	86.4	86.4	86.4
40°	835.0	662.1	310.1	145.9	102.0	90.2	86.6	85.2	84.5	84.7	84.7
42.5°	935.0	720.8	300.4	137.6	99.9	88.4	84.7	83.5	82.9	82.6	82.9
45°	1048.9	787.6	299.2	131.4	97.8	87.0	83.5	82.3	80.9	80.0	80.0
47.5°	1159.5	855.5	307.8	129.4	95.5	85.6	82.5	81.1	79.2	77.3	77.3
50°	1257.4	913.1	319.5	130.2	94.7	83.5	80.8	80.0	77.2	75.0	74.7
52.5°	1335.2	957.6	329.0	132.7	95.5	81.9	78.6	78.8	75.6	73.3	73.1
55°	1397.6	986.7	326.5	135.3	97.5	81.1	76.7	77.2	74.6	72.3	72.3
57.5°	1424.8	975.9	298.3	133.2	99.0	81.3	75.3	77.0	74.7	72.8	72.8
60°	1366.2	880.2	245.7	123.8	96.9	80.8	74.6	77.8	77.6	75.5	75.3
62.5°	1189.1	708.9	190.6	110.1	90.5	77.6	72.9	77.6	79.9	79.2	79.1
65°	916.5	504.8	145.6	95.3	81.6	72.3	68.5	72.8	75.8	76.7	76.4
67.5°	594.9	309.3	112.2	81.3	71.7	66.1	62.7	64.7	65.2	65.2	64.9
70°	292.5	166.5	89.4	68.5	61.5	59.6	57.8	56.7	55.5	54.7	54.7
72.5°	144.4	108.9	73.5	57.9	53.0	52.2	51.8	50.6	49.6	48.6	48.1
75°	106.7	88.6	62.5	48.8	45.6	44.7	45.6	44.6	44.3	43.6	43.1
77.5°	87.8	75.5	53.9	41.9	39.0	37.5	38.8	39.0	39.3	38.1	37.5
80°	71.2	63.8	45.0	34.7	32.1	31.1	31.9	33.5	34.0	32.1	31.4
82.5°	51.4	52.2	36.3	27.0	25.0	24.1	25.8	27.8	28.3	25.6	25.0
85°	43.1	43.6	27.8	19.3	17.1	15.8	18.5	20.8	22.2	19.5	18.9
87.5°	18.0	25.6	16.1	10.8	9.5	8.3	9.9	11.0	13.4	12.2	12.0
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)