

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: P451601

Luminaire Tested: **GLAN-SA2C-727-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451601
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-7)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA2C-727-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9466 lumens
Efficiency: N/A
Efficacy: 87.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

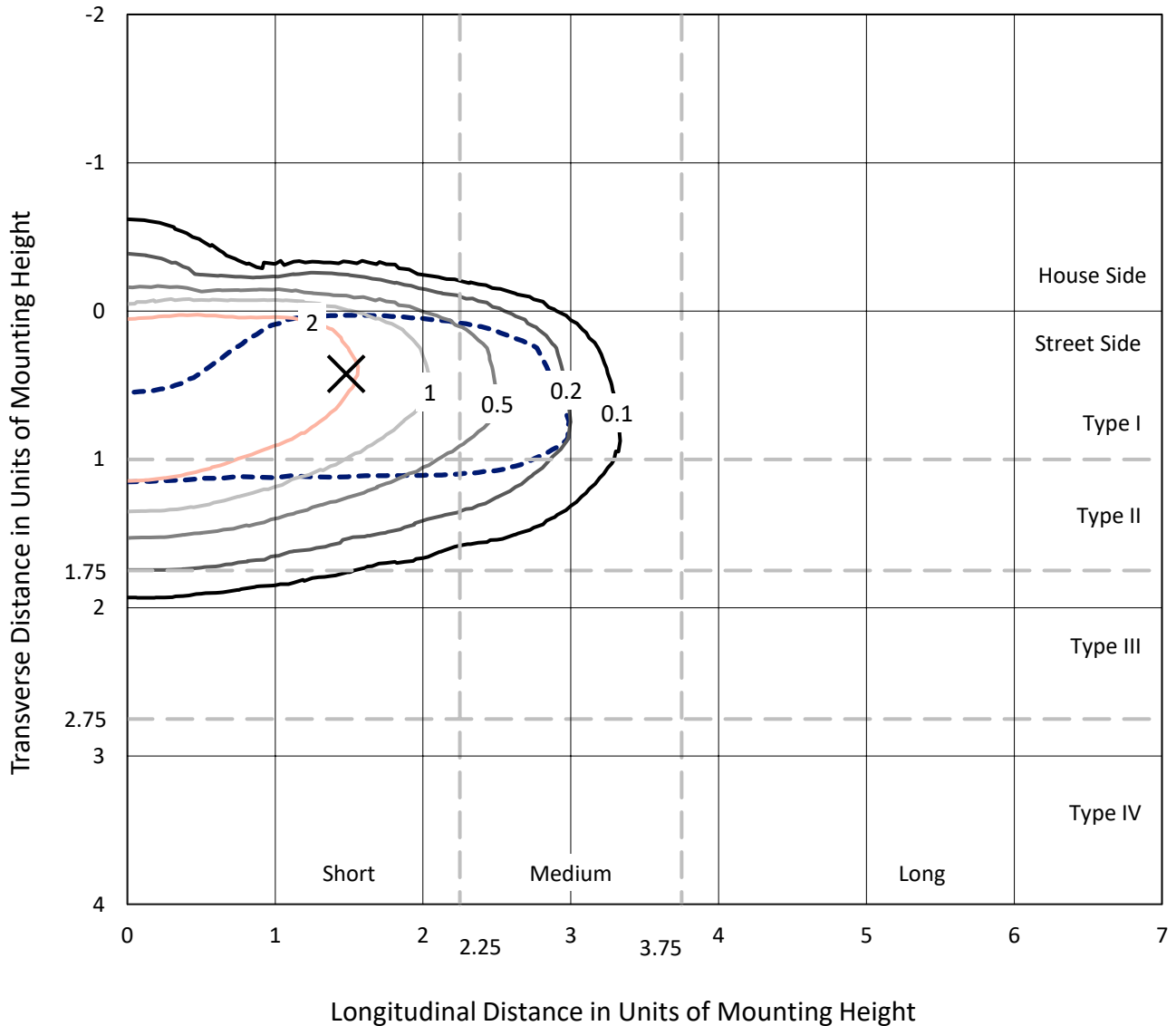
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

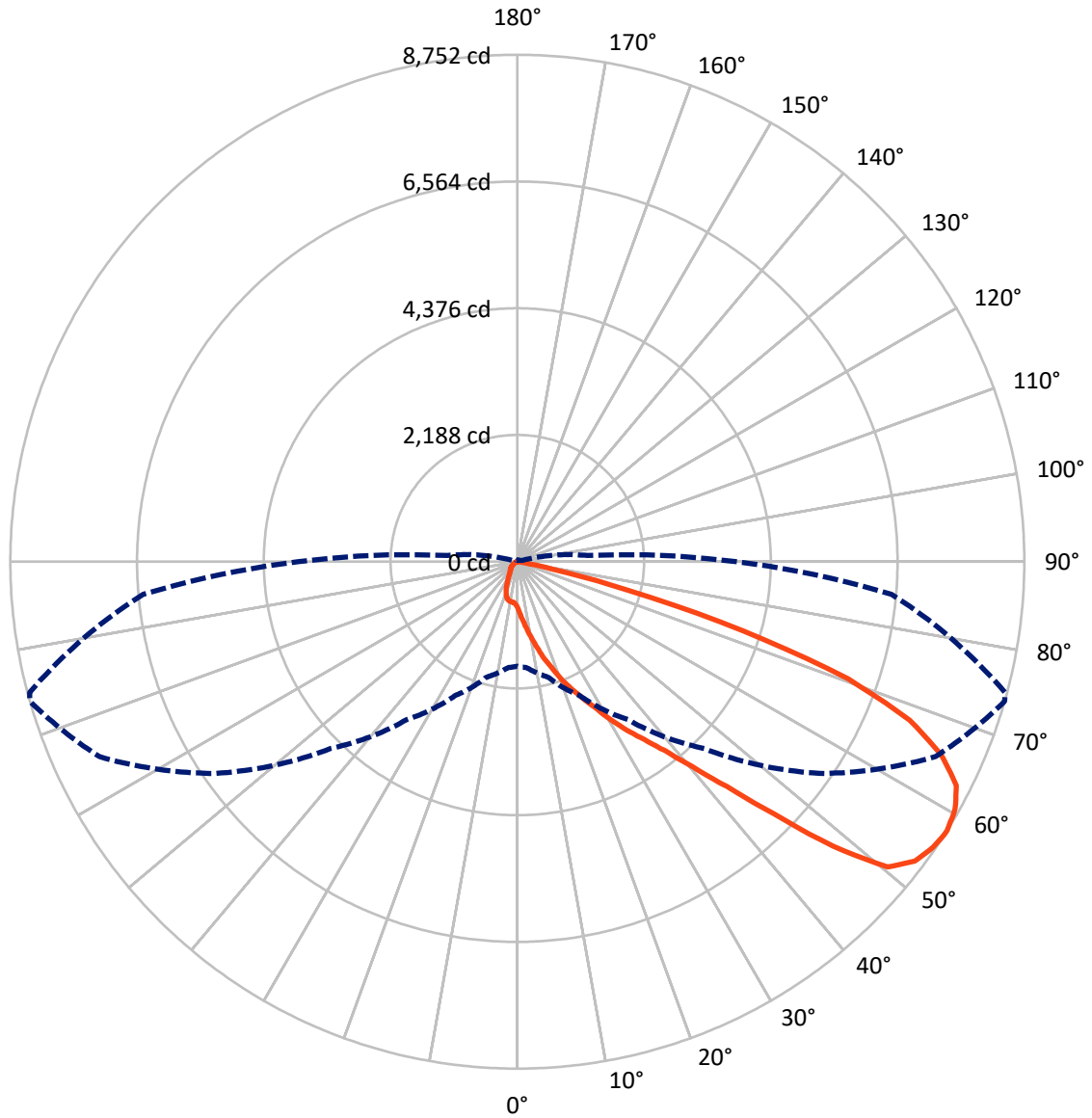
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	546.0	0.0	546.0
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	8920.0	0.0	8920.0
	% Fixture	94.2	0.0	94.2
Total	Lumens	9466.0	0.0	9466.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.7	1.0
10°-20°	377.2	4.0
20°-30°	807.0	8.5
30°-40°	1483.3	15.7
40°-50°	2274.0	24.0
50°-60°	2405.6	25.4
60°-70°	1570.9	16.6
70°-80°	429.2	4.5
80°-90°	23.1	0.2
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°	9466.0	100.0
0°-180°	9466.0	100.0

Coefficient of Utilization



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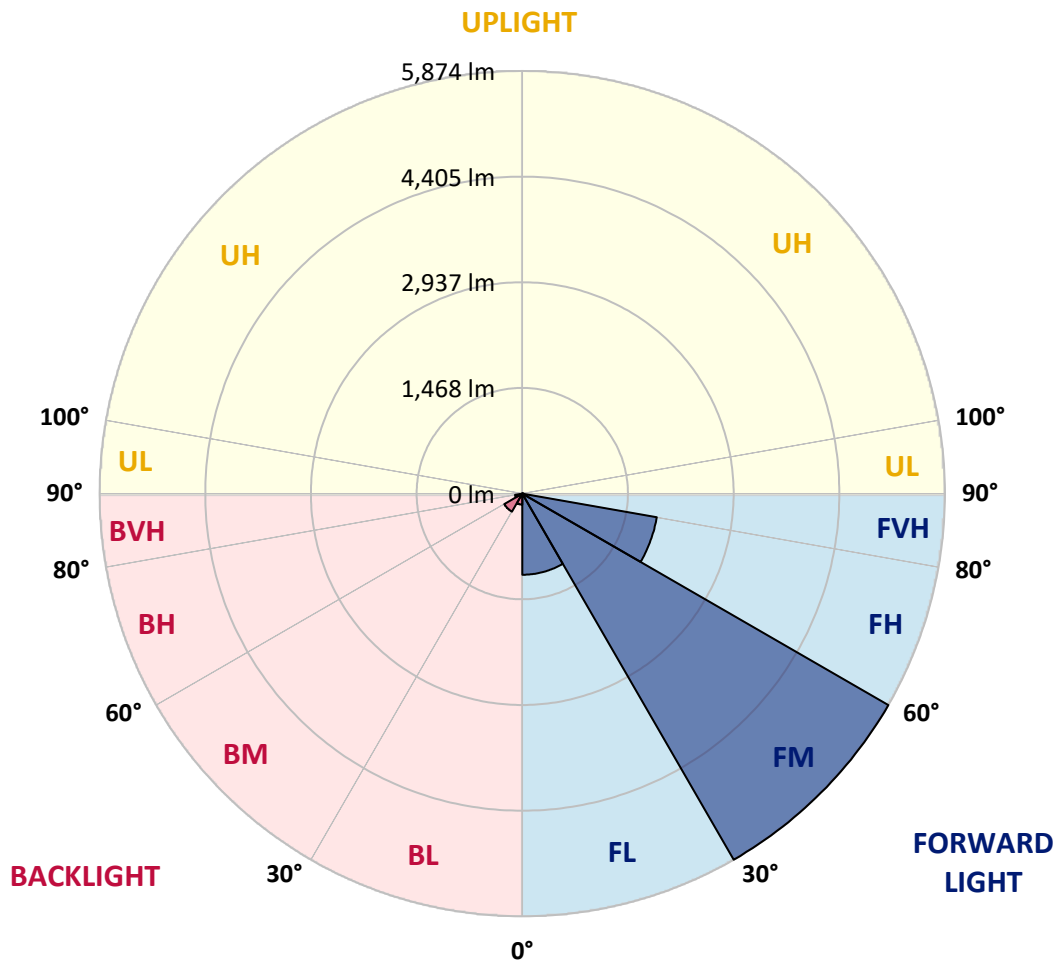
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1127.4	11.9			
FM (30°-60°)	5873.8	62.1			
FH (60°-80°)	1897.6	20.0			G2/5000
FVH (80°-90°)	21.2	0.2			G1/100
BL (0°-30°)	152.5	1.6	B1/500		
BM (30°-60°)	289.1	3.1	B1/1000		
BH (60°-80°)	102.5	1.1	B0/110		G0/110
BVH (80°-90°)	1.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	792.8	792.8	792.8	792.8	792.8	792.8	792.8	792.8	792.8	792.8	792.8
2.5°	1160.1	1149.6	1128.7	1121.5	1090.8	1043.1	1001.2	945.0	900.6	896.0	842.4
5°	1553.5	1530.0	1520.2	1473.1	1399.3	1330.0	1211.0	1120.9	1016.9	1009.1	901.3
7.5°	1932.6	1899.9	1890.1	1845.6	1759.4	1650.2	1496.0	1332.0	1167.3	1152.2	980.3
10°	2207.1	2211.6	2194.0	2164.6	2094.7	1983.5	1793.4	1569.2	1334.6	1315.6	1069.2
12.5°	2403.8	2403.1	2406.4	2405.7	2368.5	2284.2	2084.2	1826.0	1518.9	1481.6	1171.2
15°	2531.9	2533.8	2543.6	2577.6	2581.6	2529.3	2362.6	2071.8	1732.6	1686.2	1281.6
17.5°	2661.3	2675.0	2690.7	2722.7	2751.5	2730.6	2612.9	2328.0	1926.0	1891.4	1399.9
20°	2875.0	2894.0	2884.8	2904.4	2919.4	2921.4	2830.6	2564.6	2160.7	2102.5	1535.2
22.5°	3216.8	3216.2	3192.6	3157.3	3127.9	3126.6	3044.3	2807.7	2373.7	2317.5	1671.1
25°	3648.8	3650.8	3605.0	3504.4	3431.2	3341.6	3246.9	3020.7	2601.8	2532.5	1814.3
27.5°	4144.2	4131.8	4062.5	3924.0	3778.9	3625.9	3489.3	3268.4	2843.6	2786.1	1978.3
30°	4589.3	4584.7	4503.7	4334.4	4143.6	3990.0	3791.9	3578.9	3156.7	3086.1	2162.0
32.5°	5003.6	5010.2	4897.8	4722.6	4538.3	4361.2	4152.1	3875.6	3463.9	3363.9	2362.0
35°	5327.1	5333.7	5217.3	5071.6	4882.1	4735.0	4535.7	4191.9	3767.1	3682.8	2592.0
37.5°	5499.7	5508.2	5440.9	5331.1	5212.8	5138.9	4953.3	4599.1	4135.7	4084.7	2863.9
40°	5532.4	5542.2	5512.8	5483.3	5476.8	5529.7	5475.5	5078.8	4646.8	4567.1	3269.1
42.5°	5434.3	5447.4	5460.5	5525.8	5659.2	5853.3	6042.1	5729.7	5304.9	5197.7	3764.5
45°	5176.8	5175.5	5227.2	5396.4	5695.1	6109.5	6634.3	6544.7	6201.6	6074.2	4464.5
47.5°	4736.3	4729.8	4841.6	5082.7	5548.0	6156.5	7117.2	7534.2	7346.0	7228.3	5216.7
50°	4065.1	4097.2	4273.0	4609.5	5182.7	6014.0	7266.3	8183.2	8285.1	8160.3	5824.5
52.5°	3278.9	3277.6	3553.4	4010.2	4641.6	5700.3	7162.3	8300.8	8590.4	8494.9	6123.8
55°	2426.7	2443.7	2730.6	3191.3	3939.0	5127.8	6823.1	8179.9	8706.7	8639.4	6321.2
57°	1805.1	1835.2	2065.2	2552.8	3327.3	4561.2	6371.5	7963.6	8752.4	8715.8	6485.3
57.5°	1684.9	1686.2	1910.3	2353.5	3148.2	4343.5	6242.1	7873.4	8751.1	8730.9	6512.0
60°	1037.2	1069.9	1224.8	1590.8	2304.4	3390.0	5374.9	7355.1	8683.2	8712.6	6626.4
62.5°	620.9	634.6	735.3	958.8	1485.5	2474.4	4398.4	6691.8	8506.1	8595.6	6618.6
65°	399.3	402.6	448.3	580.4	928.7	1672.5	3389.3	5815.4	8047.9	8212.6	6359.8
67.5°	308.5	313.7	332.0	381.0	538.5	1041.8	2397.2	4880.1	7306.8	7519.2	5732.4
70°	273.8	276.5	283.0	298.7	356.2	588.2	1491.4	3812.2	6059.1	6119.3	4486.0
72.5°	223.5	230.7	251.0	256.2	282.3	367.3	830.0	2558.7	4071.0	4086.0	2509.7
75°	173.2	174.5	204.6	219.6	237.9	252.9	370.6	1290.1	1955.4	1850.9	967.3
77.5°	129.4	135.3	149.0	168.0	194.1	181.0	166.0	486.2	607.2	596.0	281.0
80°	83.0	86.3	103.9	126.1	151.0	118.3	93.5	142.5	133.3	137.2	67.3
82.5°	41.8	42.5	66.7	102.6	96.1	59.5	58.8	58.2	49.7	49.0	31.4
85°	4.6	9.8	43.1	58.8	43.1	19.6	27.4	26.8	26.1	26.8	18.3
87.5°	0.7	0.7	7.2	8.5	5.9	6.5	7.8	8.5	10.5	9.8	7.8
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°	792.8	792.8	792.8	792.8	792.8	792.8	792.8	792.8	792.8	792.8	792.8
2.5°	816.3	790.2	741.8	695.4	660.7	638.5	609.8	599.3	584.3	582.3	575.1
5°	851.6	801.9	717.6	650.9	597.4	556.8	521.5	492.1	468.6	463.4	466.0
7.5°	901.9	828.1	710.4	619.6	545.1	475.8	419.6	384.9	360.1	351.0	352.3
10°	958.8	862.7	709.1	586.2	472.5	387.6	326.1	295.4	281.0	275.8	269.9
12.5°	1026.1	902.6	705.8	534.6	392.8	309.1	265.3	247.0	233.3	229.4	229.4
15°	1101.9	945.0	690.2	470.6	318.9	255.5	226.1	211.8	207.2	203.3	203.3
17.5°	1181.0	986.9	657.5	391.5	264.7	218.9	200.6	192.1	185.6	181.0	181.0
20°	1271.2	1028.0	605.2	321.6	223.5	195.4	181.0	171.2	166.0	162.1	160.8
22.5°	1356.8	1061.4	538.5	264.0	194.8	175.8	162.7	152.3	147.1	145.1	145.1
25°	1445.7	1081.6	458.1	218.3	177.8	159.5	145.1	136.6	132.0	130.7	130.1
27.5°	1531.9	1093.4	387.6	190.8	162.1	144.4	130.7	124.2	119.6	118.3	118.9
30°	1636.5	1095.4	318.9	171.2	148.4	130.1	117.6	111.8	109.1	107.8	107.2
32.5°	1742.4	1092.7	268.0	159.5	135.3	117.6	107.2	102.6	100.6	98.7	98.7
35°	1861.3	1079.0	228.1	147.7	122.9	107.2	98.0	94.1	91.5	89.5	88.9
37.5°	2009.0	1071.8	205.2	134.6	111.8	97.4	88.9	85.0	83.0	80.4	79.7
40°	2241.7	1103.9	198.0	122.9	100.6	88.2	80.4	75.8	73.2	70.6	69.9
42.5°	2531.9	1160.1	186.3	111.1	90.8	79.7	71.9	66.7	62.1	58.8	57.5
45°	2907.7	1233.9	168.0	98.7	82.3	70.6	63.4	56.9	51.0	48.4	47.7
47.5°	3301.8	1305.2	151.6	88.9	73.2	62.7	54.9	47.7	42.5	40.5	39.9
50°	3543.6	1319.5	141.2	77.8	64.0	54.2	46.4	39.9	36.6	34.6	34.6
52.5°	3654.0	1296.7	126.8	68.0	55.6	47.7	39.9	34.6	32.7	31.4	30.7
55°	3731.2	1261.4	107.8	58.8	47.7	40.5	35.3	31.4	28.8	27.4	26.8
57°	3776.3	1213.7	93.5	51.6	41.2	35.3	31.4	28.1	25.5	22.9	22.9
57.5°	3778.2	1195.4	89.5	51.0	39.2	34.0	30.7	27.4	24.2	21.6	20.9
60°	3720.0	1069.9	71.9	43.1	31.4	28.8	25.5	21.6	17.0	14.4	13.7
62.5°	3533.1	910.4	59.5	36.6	25.5	22.2	18.3	16.3	11.8	8.5	8.5
65°	3250.1	738.5	51.0	29.4	20.9	16.3	12.4	11.8	7.2	3.9	3.3
67.5°	2841.0	575.1	43.1	24.2	17.6	11.8	8.5	7.8	3.9	1.3	0.0
70°	2164.6	392.1	35.9	19.6	13.1	8.5	5.9	4.6	2.6	0.7	0.0
72.5°	1247.6	215.7	30.1	15.0	9.8	6.5	4.6	2.6	2.6	0.0	0.0
75°	445.7	92.8	22.9	11.1	7.8	5.2	3.3	1.3	2.0	0.7	0.0
77.5°	141.8	49.7	15.0	8.5	6.5	3.9	2.6	1.3	1.3	0.7	0.0
80°	41.8	26.1	9.1	7.2	4.6	3.3	2.0	0.7	1.3	0.7	0.0
82.5°	22.9	13.1	7.2	5.2	4.6	2.6	2.0	0.7	0.7	0.7	0.0
85°	11.8	7.8	5.9	5.2	4.6	2.6	2.0	0.7	0.0	0.7	0.7
87.5°	6.5	5.9	5.9	5.2	4.6	3.3	2.0	0.7	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)