

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: P451137

Luminaire Tested: **GLAN-SA2A-727-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451137
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-SA2A-727-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 615mA 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: 6158 lumens
Efficiency: N/A
Efficacy: 97.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G1

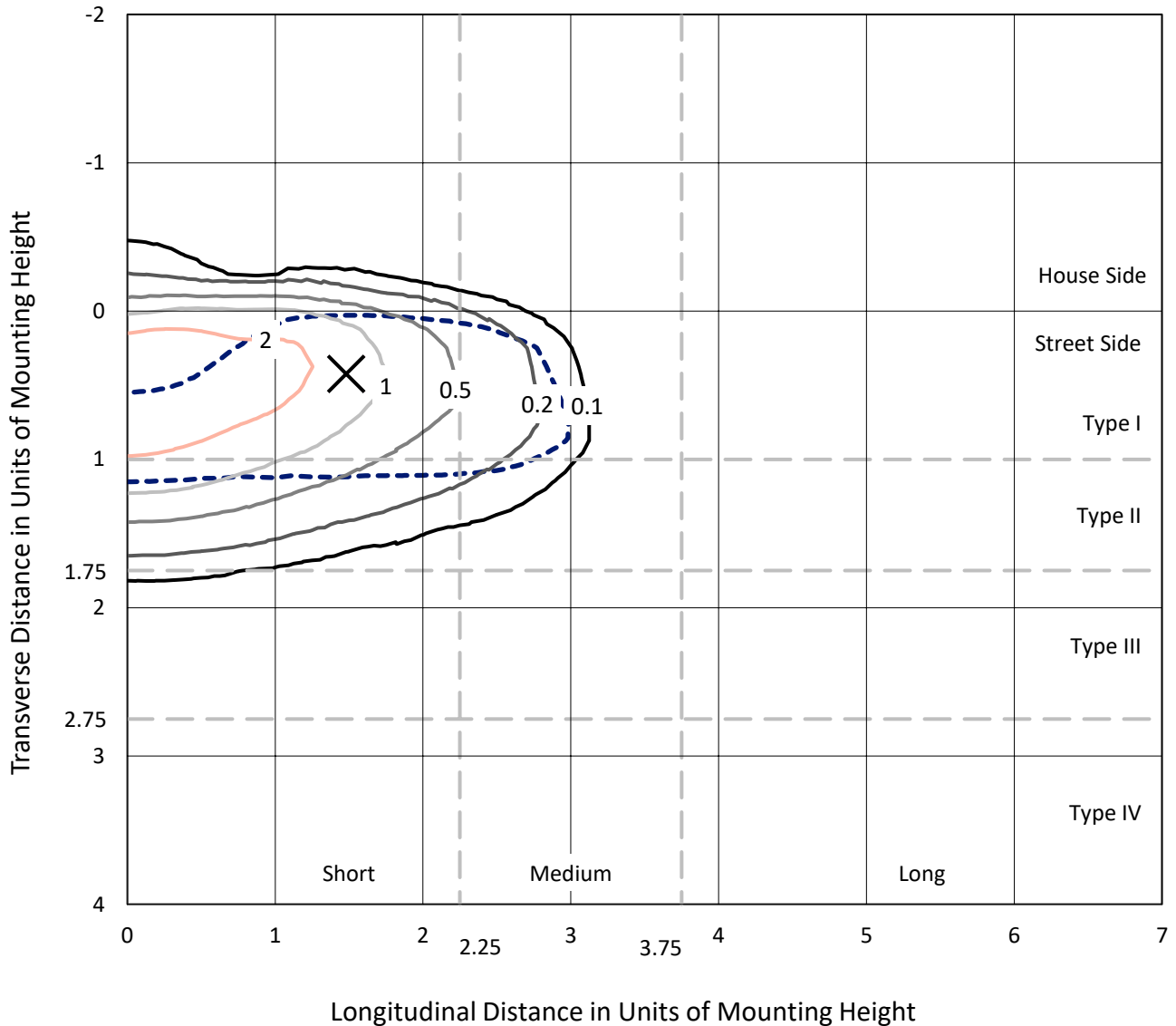
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

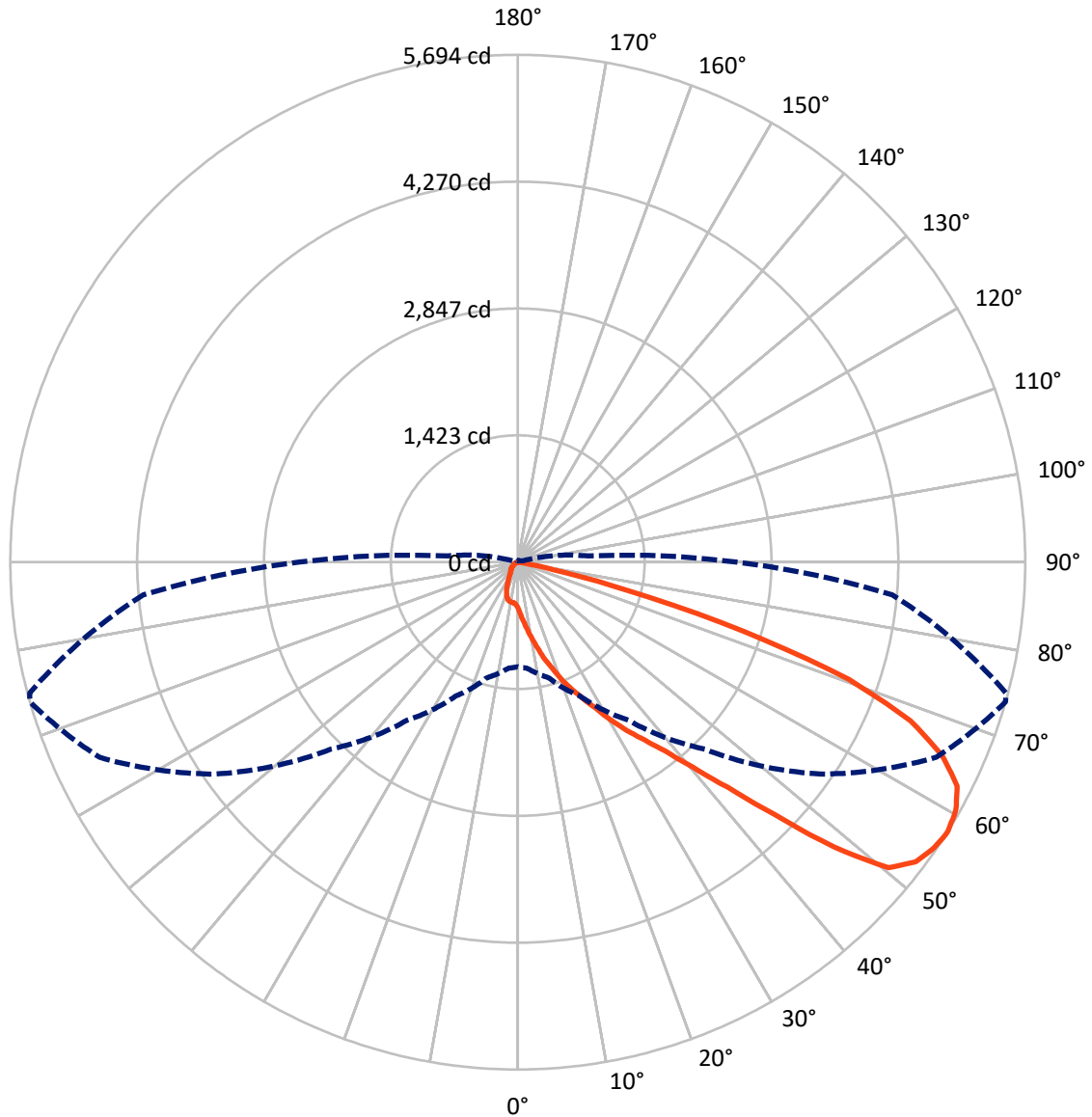
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 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	355.2	0.0	355.2
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	5802.8	0.0	5802.8
	% Fixture	94.2	0.0	94.2
Total	Lumens	6158.0	0.0	6158.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.2	1.0
10°-20°	245.4	4.0
20°-30°	525.0	8.5
30°-40°	965.0	15.7
40°-50°	1479.3	24.0
50°-60°	1564.9	25.4
60°-70°	1021.9	16.6
70°-80°	279.2	4.5
80°-90°	15.0	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°	6158.0	100.0
0°-180°	6158.0	100.0

Coefficient of Utilization



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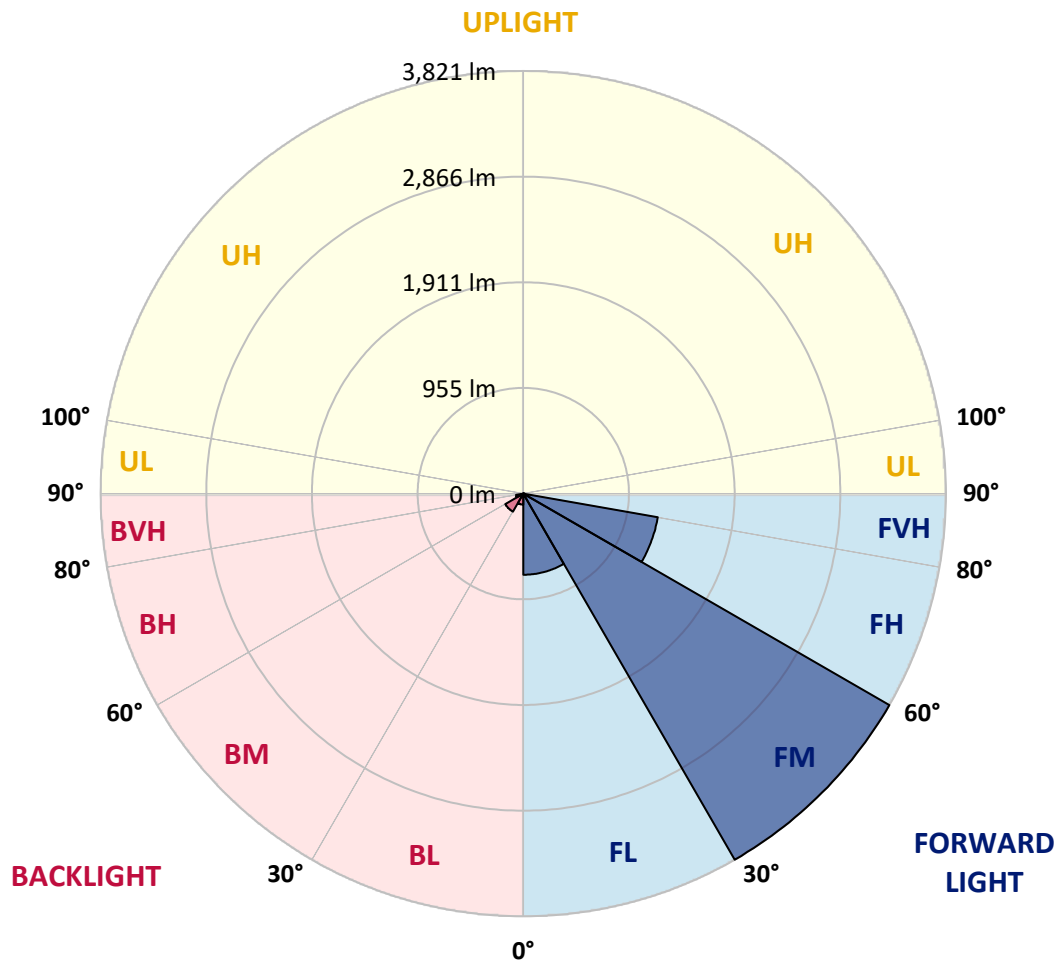
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	733.4	11.9			
FM	(30°-60°)	3821.2	62.1			
FH	(60°-80°)	1234.5	20.0			G1/1800
FVH	(80°-90°)	13.8	0.2			G1/100
BL	(0°-30°)	99.2	1.6	B0/110		
BM	(30°-60°)	188.0	3.1	B0/220		
BH	(60°-80°)	66.7	1.1	B0/110		G0/110
BVH	(80°-90°)	1.2	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	515.7	515.7	515.7	515.7	515.7	515.7	515.7	515.7	515.7	515.7	515.7
2.5°	754.7	747.9	734.3	729.6	709.6	678.6	651.4	614.8	585.9	582.9	548.0
5°	1010.6	995.3	988.9	958.3	910.3	865.2	787.8	729.2	661.6	656.5	586.3
7.5°	1257.2	1236.0	1229.6	1200.7	1144.5	1073.5	973.2	866.5	759.3	749.6	637.7
10°	1435.8	1438.8	1427.3	1408.1	1362.7	1290.4	1166.7	1020.8	868.2	855.9	695.6
12.5°	1563.8	1563.3	1565.5	1565.0	1540.8	1485.9	1355.8	1187.9	988.1	963.8	761.9
15°	1647.1	1648.4	1654.7	1676.8	1679.4	1645.4	1537.0	1347.8	1127.1	1096.9	833.7
17.5°	1731.3	1740.2	1750.4	1771.2	1789.9	1776.3	1699.8	1514.4	1253.0	1230.4	910.7
20°	1870.3	1882.6	1876.7	1889.4	1899.2	1900.5	1841.4	1668.3	1405.6	1367.8	998.7
22.5°	2092.7	2092.2	2076.9	2054.0	2034.8	2034.0	1980.4	1826.5	1544.2	1507.6	1087.1
25°	2373.7	2375.0	2345.2	2279.7	2232.1	2173.9	2112.2	1965.1	1692.6	1647.5	1180.3
27.5°	2696.0	2687.9	2642.8	2552.7	2458.3	2358.8	2270.0	2126.2	1849.9	1812.5	1287.0
30°	2985.5	2982.5	2929.8	2819.7	2695.5	2595.6	2466.8	2328.2	2053.5	2007.6	1406.4
32.5°	3255.1	3259.3	3186.2	3072.2	2952.3	2837.1	2701.1	2521.2	2253.4	2188.3	1536.5
35°	3465.5	3469.8	3394.1	3299.3	3176.0	3080.3	2950.6	2727.0	2450.6	2395.8	1686.2
37.5°	3577.8	3583.3	3539.5	3468.1	3391.1	3343.1	3222.3	2991.9	2690.4	2657.3	1863.1
40°	3599.0	3605.4	3586.3	3567.1	3562.9	3597.3	3562.0	3304.0	3022.9	2971.0	2126.7
42.5°	3535.2	3543.7	3552.2	3594.8	3681.5	3807.8	3930.6	3727.4	3451.1	3381.3	2448.9
45°	3367.7	3366.9	3400.5	3510.6	3704.9	3974.4	4315.8	4257.6	4034.4	3951.5	2904.3
47.5°	3081.2	3076.9	3149.6	3306.5	3609.2	4005.0	4630.0	4901.3	4778.8	4702.3	3393.7
50°	2644.5	2665.4	2779.7	2998.7	3371.6	3912.4	4727.0	5323.5	5389.8	5308.6	3789.1
52.5°	2133.1	2132.2	2311.6	2608.8	3019.5	3708.3	4659.4	5400.0	5588.4	5526.3	3983.8
55°	1578.6	1589.7	1776.3	2076.1	2562.5	3335.8	4438.7	5321.4	5664.0	5620.2	4112.2
57°	1174.3	1193.9	1343.5	1660.7	2164.5	2967.2	4144.9	5180.6	5693.8	5670.0	4218.9
57.5°	1096.1	1096.9	1242.8	1531.0	2048.0	2825.6	4060.7	5122.0	5693.0	5679.8	4236.3
60°	674.7	696.0	796.8	1034.9	1499.1	2205.3	3496.6	4784.8	5648.7	5667.9	4310.7
62.5°	403.9	412.8	478.3	623.7	966.4	1609.7	2861.4	4353.3	5533.5	5591.8	4305.6
65°	259.8	261.9	291.7	377.5	604.2	1088.0	2204.9	3783.1	5235.5	5342.6	4137.3
67.5°	200.7	204.1	216.0	247.9	350.3	677.7	1559.5	3174.7	4753.3	4891.5	3729.1
70°	178.1	179.8	184.1	194.3	231.7	382.6	970.2	2480.0	3941.7	3980.8	2918.3
72.5°	145.4	150.1	163.3	166.7	183.7	238.9	540.0	1664.5	2648.3	2658.1	1632.6
75°	112.7	113.5	133.1	142.9	154.8	164.5	241.1	839.3	1272.1	1204.1	629.2
77.5°	84.2	88.0	96.9	109.3	126.3	117.8	108.0	316.3	395.0	387.7	182.8
80°	54.0	56.1	67.6	82.1	98.2	77.0	60.8	92.7	86.7	89.3	43.8
82.5°	27.2	27.6	43.4	66.8	62.5	38.7	38.3	37.8	32.3	31.9	20.4
85°	3.0	6.4	28.1	38.3	28.1	12.8	17.9	17.4	17.0	17.4	11.9
87.5°	0.4	0.4	4.7	5.5	3.8	4.3	5.1	5.5	6.8	6.4	5.1
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°	515.7	515.7	515.7	515.7	515.7	515.7	515.7	515.7	515.7	515.7	515.7
2.5°	531.0	514.0	482.6	452.4	429.8	415.4	396.7	389.9	380.1	378.8	374.1
5°	554.0	521.7	466.8	423.5	388.6	362.2	339.3	320.1	304.8	301.4	303.1
7.5°	586.7	538.7	462.2	403.1	354.6	309.5	273.0	250.4	234.3	228.3	229.2
10°	623.7	561.2	461.3	381.4	307.4	252.1	212.2	192.2	182.8	179.4	175.6
12.5°	667.5	587.2	459.2	347.8	255.5	201.1	172.6	160.7	151.8	149.2	149.2
15°	716.8	614.8	449.0	306.1	207.5	166.2	147.1	137.8	134.8	132.2	132.2
17.5°	768.3	642.0	427.7	254.7	172.2	142.4	130.5	125.0	120.7	117.8	117.8
20°	826.9	668.8	393.7	209.2	145.4	127.1	117.8	111.4	108.0	105.4	104.6
22.5°	882.6	690.5	350.3	171.8	126.7	114.4	105.9	99.1	95.7	94.4	94.4
25°	940.5	703.6	298.0	142.0	115.6	103.7	94.4	88.9	85.9	85.0	84.6
27.5°	996.6	711.3	252.1	124.1	105.4	94.0	85.0	80.8	77.8	77.0	77.4
30°	1064.6	712.6	207.5	111.4	96.5	84.6	76.5	72.7	71.0	70.2	69.7
32.5°	1133.5	710.9	174.3	103.7	88.0	76.5	69.7	66.8	65.5	64.2	64.2
35°	1210.9	701.9	148.4	96.1	79.9	69.7	63.8	61.2	59.5	58.2	57.8
37.5°	1307.0	697.3	133.5	87.6	72.7	63.3	57.8	55.3	54.0	52.3	51.9
40°	1458.3	718.1	128.8	79.9	65.5	57.4	52.3	49.3	47.6	45.9	45.5
42.5°	1647.1	754.7	121.2	72.3	59.1	51.9	46.8	43.4	40.4	38.3	37.4
45°	1891.6	802.7	109.3	64.2	53.6	45.9	41.2	37.0	33.2	31.5	31.0
47.5°	2147.9	849.1	98.6	57.8	47.6	40.8	35.7	31.0	27.6	26.4	25.9
50°	2305.2	858.4	91.8	50.6	41.7	35.3	30.2	25.9	23.8	22.5	22.5
52.5°	2377.1	843.5	82.5	44.2	36.1	31.0	25.9	22.5	21.3	20.4	20.0
55°	2427.3	820.6	70.2	38.3	31.0	26.4	23.0	20.4	18.7	17.9	17.4
57°	2456.6	789.5	60.8	33.6	26.8	23.0	20.4	18.3	16.6	14.9	14.9
57.5°	2457.9	777.6	58.2	33.2	25.5	22.1	20.0	17.9	15.7	14.0	13.6
60°	2420.0	696.0	46.8	28.1	20.4	18.7	16.6	14.0	11.1	9.4	8.9
62.5°	2298.4	592.3	38.7	23.8	16.6	14.5	11.9	10.6	7.7	5.5	5.5
65°	2114.3	480.4	33.2	19.1	13.6	10.6	8.1	7.7	4.7	2.6	2.1
67.5°	1848.2	374.1	28.1	15.7	11.5	7.7	5.5	5.1	2.6	0.9	0.0
70°	1408.1	255.1	23.4	12.8	8.5	5.5	3.8	3.0	1.7	0.4	0.0
72.5°	811.6	140.3	19.6	9.8	6.4	4.3	3.0	1.7	1.7	0.0	0.0
75°	290.0	60.4	14.9	7.2	5.1	3.4	2.1	0.9	1.3	0.4	0.0
77.5°	92.3	32.3	9.8	5.5	4.3	2.6	1.7	0.9	0.9	0.4	0.0
80°	27.2	17.0	6.0	4.7	3.0	2.1	1.3	0.4	0.9	0.4	0.0
82.5°	14.9	8.5	4.7	3.4	3.0	1.7	1.3	0.4	0.4	0.4	0.0
85°	7.7	5.1	3.8	3.4	3.0	1.7	1.3	0.4	0.0	0.4	0.4
87.5°	4.3	3.8	3.8	3.4	3.0	2.1	1.3	0.4	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)