

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: P534011

Luminaire Tested: **GLAN-SA9C-727-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534011
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA9C-727-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31443 lumens
Efficiency: N/A
Efficacy: 65.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

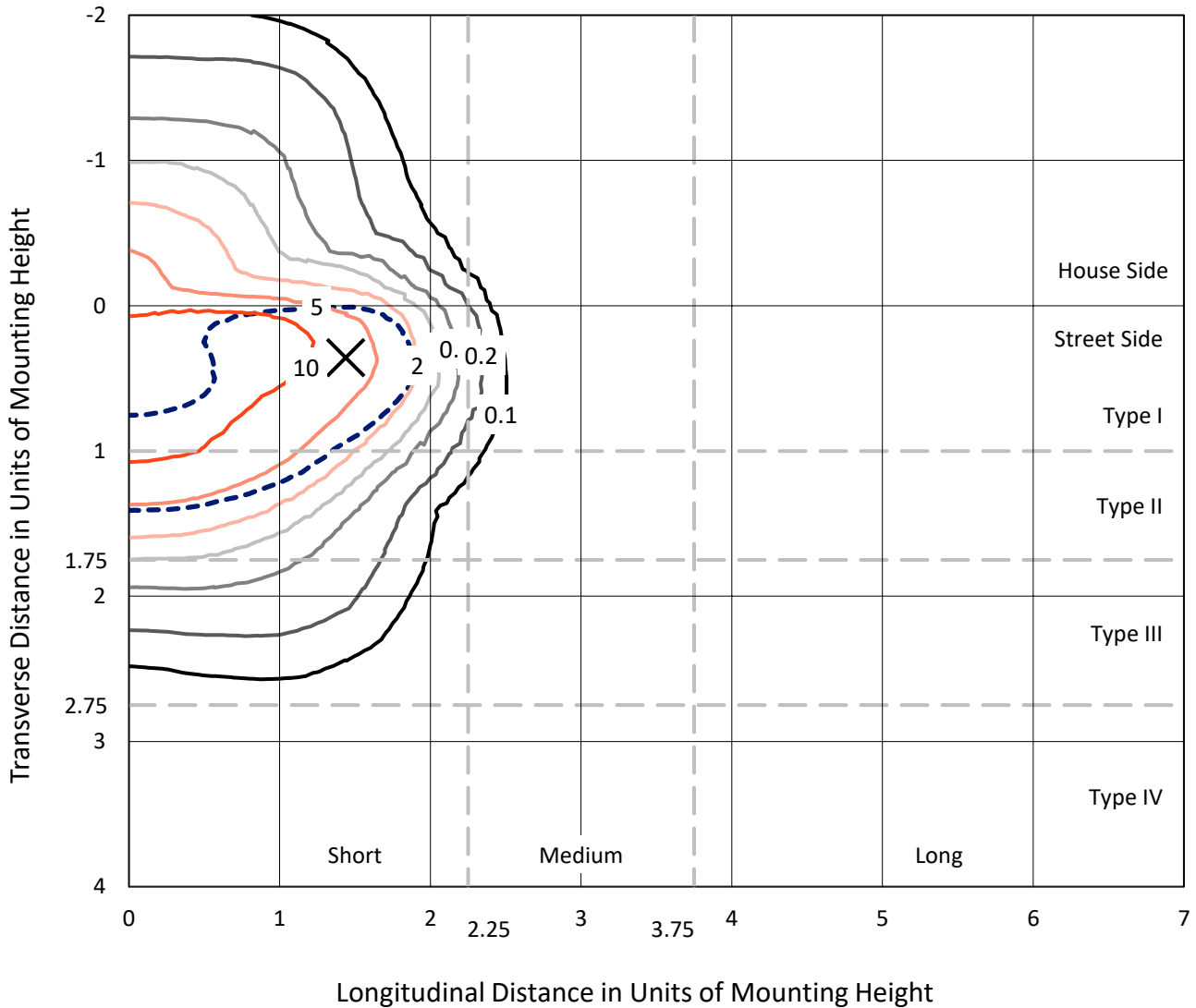
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

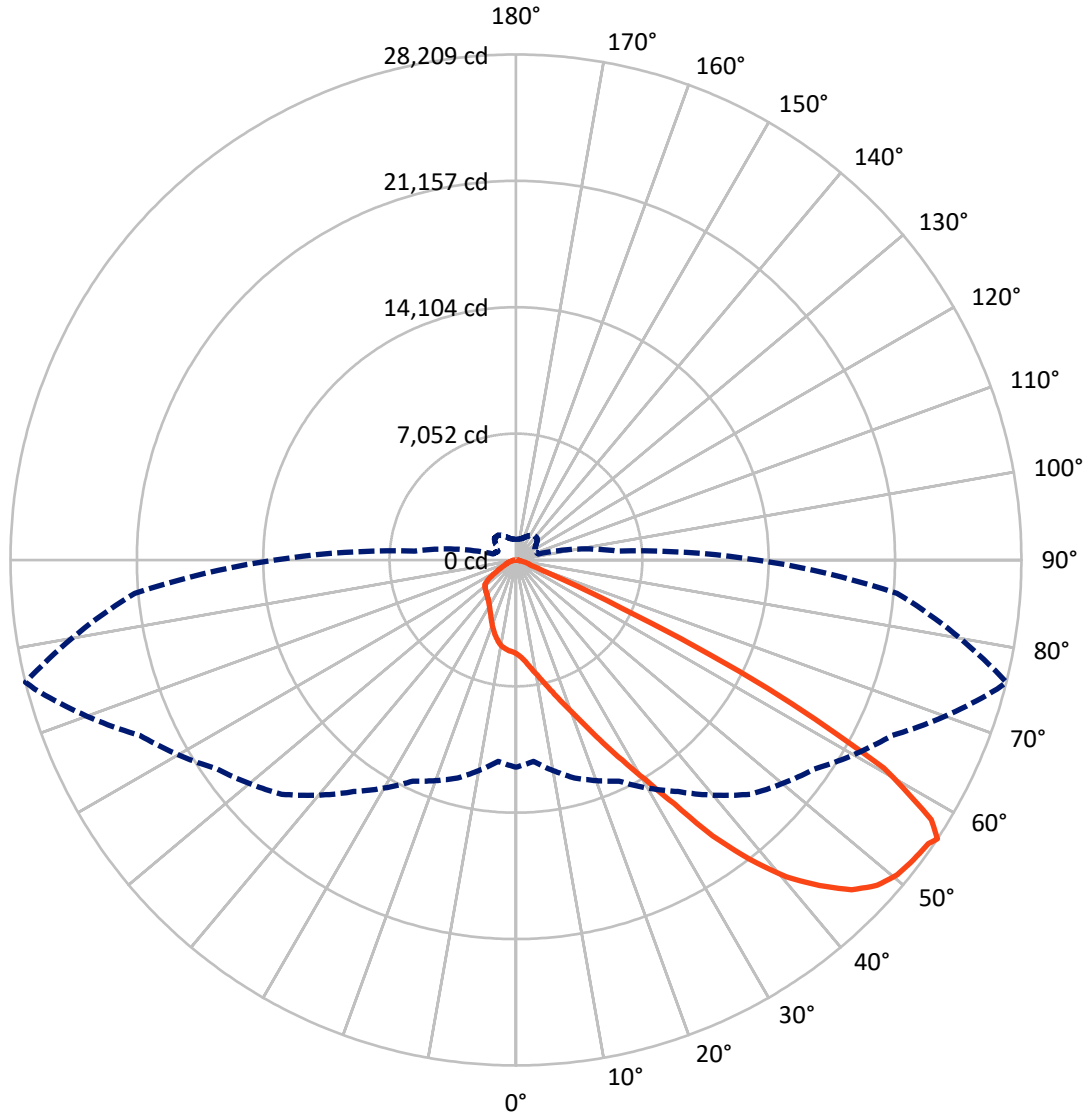
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.6 fc
 Type II - Short - N/A

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CATALOG NUMBER: GLAN-SA9C-727-U-T2-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4939.5	0.0	4939.5
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	26503.5	0.0	26503.5
	% Fixture	84.3	0.0	84.3
Total	Lumens	31443.0	0.0	31443.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	527.2	1.7
10°-20°	1693.8	5.4
20°-30°	3071.3	9.8
30°-40°	5296.6	16.8
40°-50°	8604.4	27.4
50°-60°	9069.4	28.8
60°-70°	2771.1	8.8
70°-80°	355.2	1.1
80°-90°	54.0	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°	31443.0	100.0
0°-180°	31443.0	100.0

Coefficient of Utilization

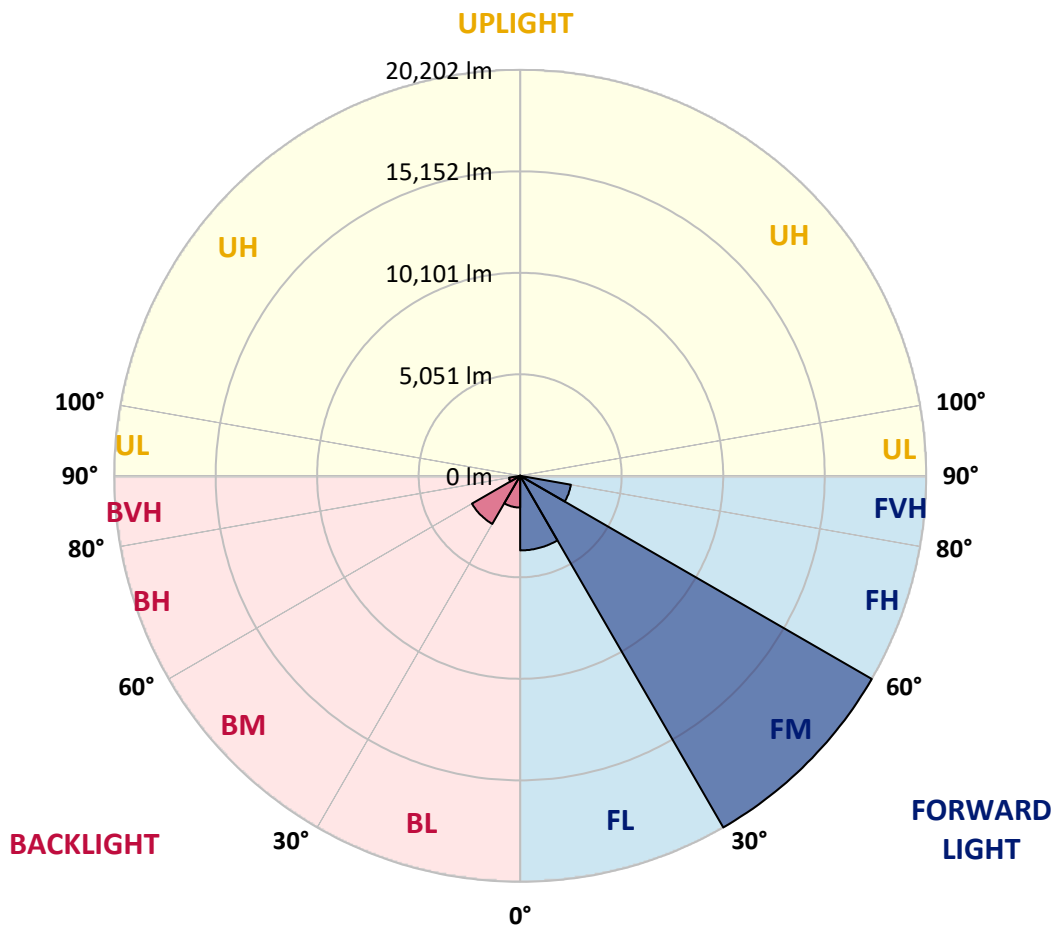


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3712.1	11.8			
FM (30°-60°)	20202.1	64.2			
FH (60°-80°)	2562.8	8.2			G2/5000
FVH (80°-90°)	26.5	0.1			G1/100
BL (0°-30°)	1580.2	5.0	B3/2500		
BM (30°-60°)	2768.3	8.8	B3/5000		
BH (60°-80°)	563.5	1.8	B2/1000		G2/1000
BVH (80°-90°)	27.5	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	5233.7	5233.7	5233.7	5233.7	5233.7	5233.7	5233.7	5233.7	5233.7	5233.7	5233.7
2.5°	6027.8	5888.7	5894.5	5882.9	5865.5	5801.7	5610.5	5581.5	5454.0	5419.2	5303.3
5°	6752.3	6630.6	6700.1	6595.8	6497.2	6439.3	6126.3	5981.4	5778.6	5703.2	5540.9
7.5°	7204.4	7146.4	7123.2	7129.0	7036.3	6891.4	6752.3	6433.5	6161.1	6103.1	5761.2
10°	7424.6	7389.8	7424.6	7407.2	7447.8	7465.2	7221.7	7030.5	6630.6	6532.0	5998.8
12.5°	7476.8	7546.3	7575.3	7650.6	7749.2	7917.3	7899.9	7639.1	7105.8	7042.1	6363.9
15°	7604.3	7662.2	7633.3	7755.0	7940.4	8224.4	8375.1	8334.6	7760.8	7644.8	6787.0
17.5°	7720.2	7615.9	7714.4	7957.8	8143.3	8578.0	8943.1	9111.2	8473.7	8340.4	7175.4
20°	7876.7	7847.7	7830.3	7952.0	8282.4	8862.0	9586.5	9893.7	9273.5	9134.4	7731.8
22.5°	8352.0	8357.7	8346.2	8166.5	8404.1	9059.1	10148.7	10908.0	10229.8	10113.9	8363.5
25°	8977.9	8902.6	8844.6	8699.7	8670.7	9238.7	10716.7	12148.3	11377.4	11296.3	9047.5
27.5°	9638.6	9638.6	9464.8	9331.5	9146.0	9685.0	11238.3	13353.8	12762.7	12652.5	9644.4
30°	10357.3	10397.9	10374.7	10090.7	9974.8	10171.9	11771.6	14895.6	14350.7	14211.6	10629.8
32.5°	11418.0	11331.1	11429.6	11192.0	10850.0	11023.9	12612.0	16275.0	16414.1	16217.0	11922.3
35°	12820.6	12768.5	12704.7	12316.4	11910.7	12049.8	13800.1	17973.2	19004.9	18906.4	13226.3
37.5°	14078.3	14049.4	13997.2	13730.6	13261.1	13429.2	15150.6	19741.0	21531.9	21207.3	15069.4
40°	15399.8	15556.3	15388.2	15150.6	14721.7	15092.6	16738.7	20790.0	23659.0	23264.9	16477.9
42.5°	17190.8	17069.0	17144.4	16709.7	16477.9	16883.6	18332.6	21839.1	25310.9	24841.4	17973.2
45°	19097.6	19103.4	18900.6	18761.5	18158.7	18599.2	19312.1	22418.7	26626.6	26261.4	19103.4
47.5°	20320.6	20314.8	20535.0	20755.3	20135.1	19700.4	19978.6	22969.3	27304.7	27136.6	19514.9
50°	20129.3	20187.3	20471.3	21294.3	21618.9	21033.5	20604.6	22807.0	27611.9	27594.5	19868.5
52.5°	17509.5	17700.8	18176.1	19364.2	20998.7	21723.2	21259.5	23108.4	27762.6	27791.5	20395.9
55°	13330.7	13435.0	14339.2	15782.3	17590.7	20071.3	20998.7	23346.0	27878.5	27930.6	21033.5
56°	11562.9	11284.7	12588.8	13614.7	15776.6	18489.1	20338.0	23160.6	27808.9	28208.8	21352.2
57.5°	8728.7	8543.2	9598.1	10879.0	12959.7	15822.9	18286.2	22285.4	27339.5	27333.7	20894.4
60°	5309.1	5123.6	5935.0	6688.5	7853.5	9743.0	12356.9	17747.2	23114.2	23601.1	16918.4
62.5°	3158.8	3274.7	4074.5	4532.4	4909.2	5106.2	6392.9	10548.6	15423.0	15770.8	10496.4
65°	2103.9	2144.5	2747.3	3500.7	3668.8	2921.2	2602.4	4271.6	6688.5	6474.1	4329.6
67.5°	1298.3	1391.0	1843.1	2631.4	2915.4	2132.9	1234.5	1593.9	1843.1	1843.1	1251.9
70°	788.2	834.6	1228.7	1790.9	1999.6	1373.6	898.4	898.4	886.8	869.4	747.7
72.5°	376.7	405.7	626.0	921.6	938.9	724.5	695.5	759.3	741.9	736.1	620.2
75°	162.3	173.9	220.2	289.8	330.4	307.2	423.1	544.8	562.2	544.8	446.3
77.5°	52.2	58.0	81.1	104.3	110.1	133.3	179.7	226.0	260.8	243.4	220.2
80°	5.8	11.6	23.2	52.2	81.1	104.3	133.3	150.7	168.1	168.1	156.5
82.5°	5.8	5.8	23.2	46.4	75.3	98.5	127.5	144.9	168.1	173.9	162.3
85°	0.0	5.8	17.4	40.6	63.8	63.8	58.0	58.0	40.6	40.6	40.6
87.5°	0.0	0.0	5.8	5.8	5.8	11.6	11.6	11.6	11.6	11.6	11.6
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°	5233.7	5233.7	5233.7	5233.7	5233.7	5233.7	5233.7	5233.7	5233.7	5233.7	5233.7
2.5°	5280.1	5268.5	5112.0	5013.5	4961.3	4857.0	4793.2	4746.9	4712.1	4671.5	4677.3
5°	5349.7	5309.1	5048.3	4868.6	4654.1	4538.2	4439.7	4358.5	4306.4	4294.8	4271.6
7.5°	5546.7	5332.3	4938.1	4613.6	4341.2	4225.2	4138.3	4086.1	4109.3	4057.2	4097.7
10°	5697.4	5378.6	4804.8	4335.4	4063.0	3976.0	3929.6	3970.2	4028.2	4005.0	3976.0
12.5°	5882.9	5425.0	4590.4	4068.8	3813.7	3750.0	3831.1	3906.5	4022.4	4068.8	4010.8
15°	6091.5	5477.2	4318.0	3761.6	3599.3	3651.4	3790.5	3923.9	4039.8	4097.7	4132.5
17.5°	6346.6	5459.8	4051.4	3518.1	3396.4	3547.1	3715.2	3836.9	4010.8	4097.7	4074.5
20°	6584.2	5401.8	3755.8	3274.7	3280.5	3419.6	3558.7	3755.8	3848.5	3964.4	3923.9
22.5°	6810.2	5297.5	3448.6	3106.6	3106.6	3321.1	3390.6	3518.1	3599.3	3657.2	3651.4
25°	7129.0	5100.4	3193.6	2944.3	3013.9	3153.0	3211.0	3251.5	3216.7	3263.1	3268.9
27.5°	7355.0	4897.6	2984.9	2799.4	2927.0	3031.3	3013.9	2990.7	2909.6	2845.8	2886.4
30°	7598.5	4659.9	2805.2	2700.9	2770.5	2863.2	2793.6	2724.1	2596.6	2492.3	2498.1
32.5°	7946.2	4549.8	2648.7	2585.0	2677.7	2689.3	2614.0	2509.6	2382.1	2283.6	2277.8
35°	8595.4	4480.3	2515.4	2509.6	2527.0	2532.8	2457.5	2330.0	2277.8	2196.7	2225.6
37.5°	9244.5	4445.5	2422.7	2399.5	2393.7	2399.5	2312.6	2190.9	2289.4	2283.6	2295.2
40°	10073.3	4602.0	2289.4	2260.4	2266.2	2266.2	2156.1	2121.3	2295.2	2312.6	2318.4
42.5°	10913.8	4799.0	2202.5	2109.7	2132.9	2132.9	2074.9	2034.4	2156.1	2040.2	2022.8
45°	11644.0	5088.8	2109.7	1959.0	2017.0	2046.0	2028.6	1959.0	1883.7	1686.6	1686.6
47.5°	11881.7	5343.9	1999.6	1814.1	1860.5	1988.0	1935.8	1790.9	1657.6	1495.4	1483.8
50°	12299.0	5622.1	1912.7	1646.0	1744.6	1901.1	1848.9	1704.0	1553.3	1437.4	1443.2
52.5°	12727.9	5940.8	1750.4	1449.0	1570.7	1831.5	1831.5	1669.2	1437.4	1356.3	1344.7
55°	13371.2	5929.2	1460.6	1188.2	1402.6	1727.2	1756.2	1495.4	1286.7	1222.9	1222.9
56°	13464.0	5662.6	1315.7	1112.8	1327.3	1698.2	1704.0	1449.0	1228.7	1159.2	1159.2
57.5°	12768.5	5112.0	1153.4	1020.1	1234.5	1646.0	1651.8	1408.4	1182.4	1083.8	1072.2
60°	9824.1	3460.2	962.1	910.0	1118.6	1483.8	1512.7	1280.9	1037.5	962.1	956.3
62.5°	5546.7	1918.5	846.2	823.0	962.1	1263.5	1350.5	1118.6	881.0	840.4	852.0
65°	2532.8	1054.9	712.9	666.5	776.7	973.7	1089.6	921.6	724.5	678.1	678.1
67.5°	927.4	718.7	608.6	527.4	544.8	631.8	707.1	597.0	481.1	411.5	428.9
70°	660.7	602.8	533.2	457.9	423.1	411.5	405.7	336.2	237.6	185.5	197.1
72.5°	533.2	498.5	446.3	388.3	330.4	278.2	237.6	173.9	110.1	75.3	69.6
75°	382.5	365.1	324.6	278.2	231.8	197.1	162.3	110.1	58.0	29.0	29.0
77.5°	197.1	197.1	191.3	173.9	144.9	115.9	92.7	63.8	34.8	11.6	11.6
80°	150.7	162.3	168.1	150.7	133.3	104.3	75.3	46.4	23.2	5.8	5.8
82.5°	144.9	168.1	179.7	156.5	133.3	98.5	75.3	46.4	23.2	5.8	5.8
85°	34.8	34.8	52.2	58.0	75.3	81.1	63.8	40.6	17.4	5.8	5.8
87.5°	11.6	11.6	11.6	11.6	11.6	11.6	5.8	5.8	5.8	5.8	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)