

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: P531905

Luminaire Tested: **GLAN-SA7B-727-U-T2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P531905  
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-SA7B-727-U-T2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 2700K, 800mA 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: 19552 lumens  
Efficiency: N/A  
Efficacy: 68.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

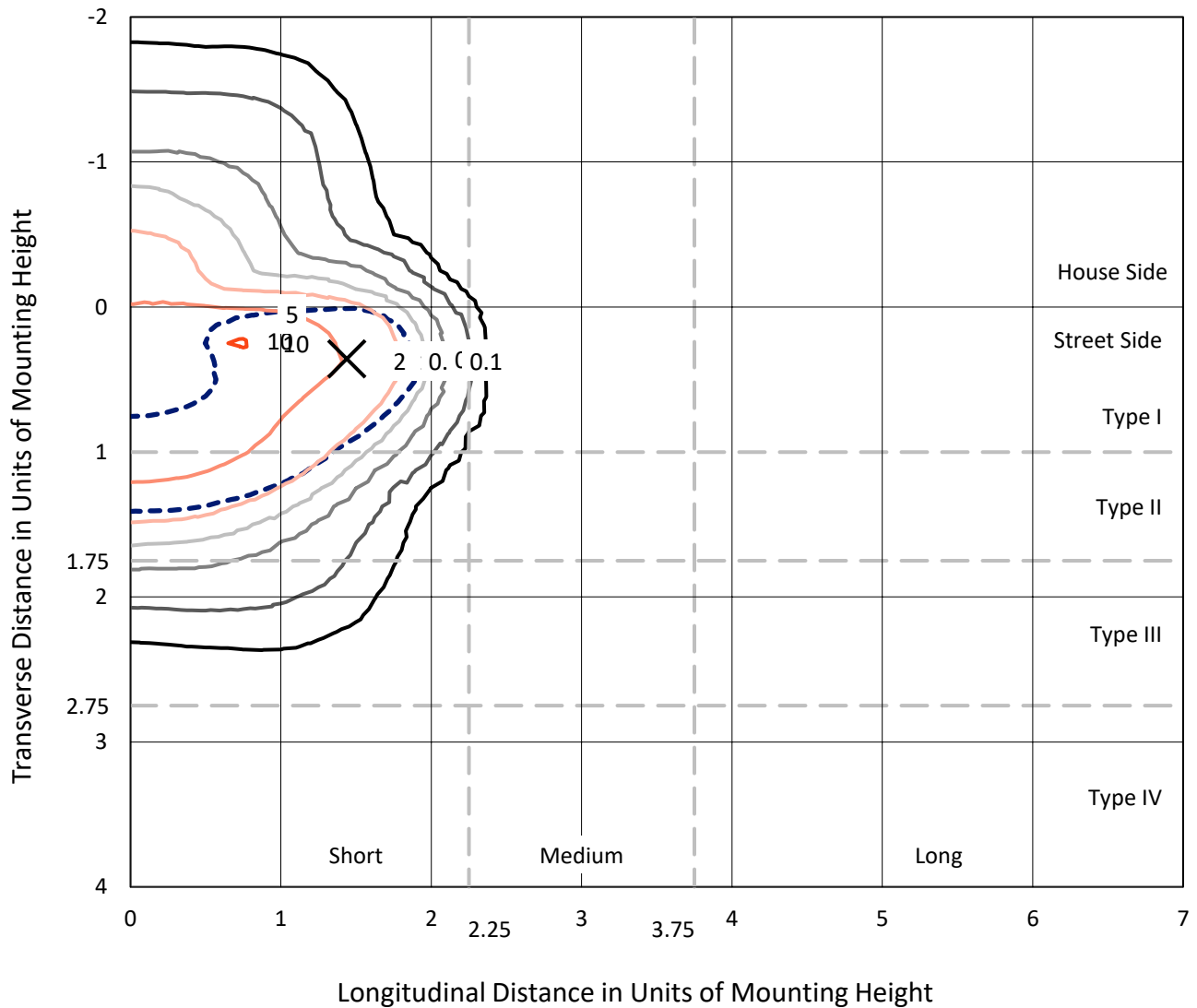
Input Watts (W): 286  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

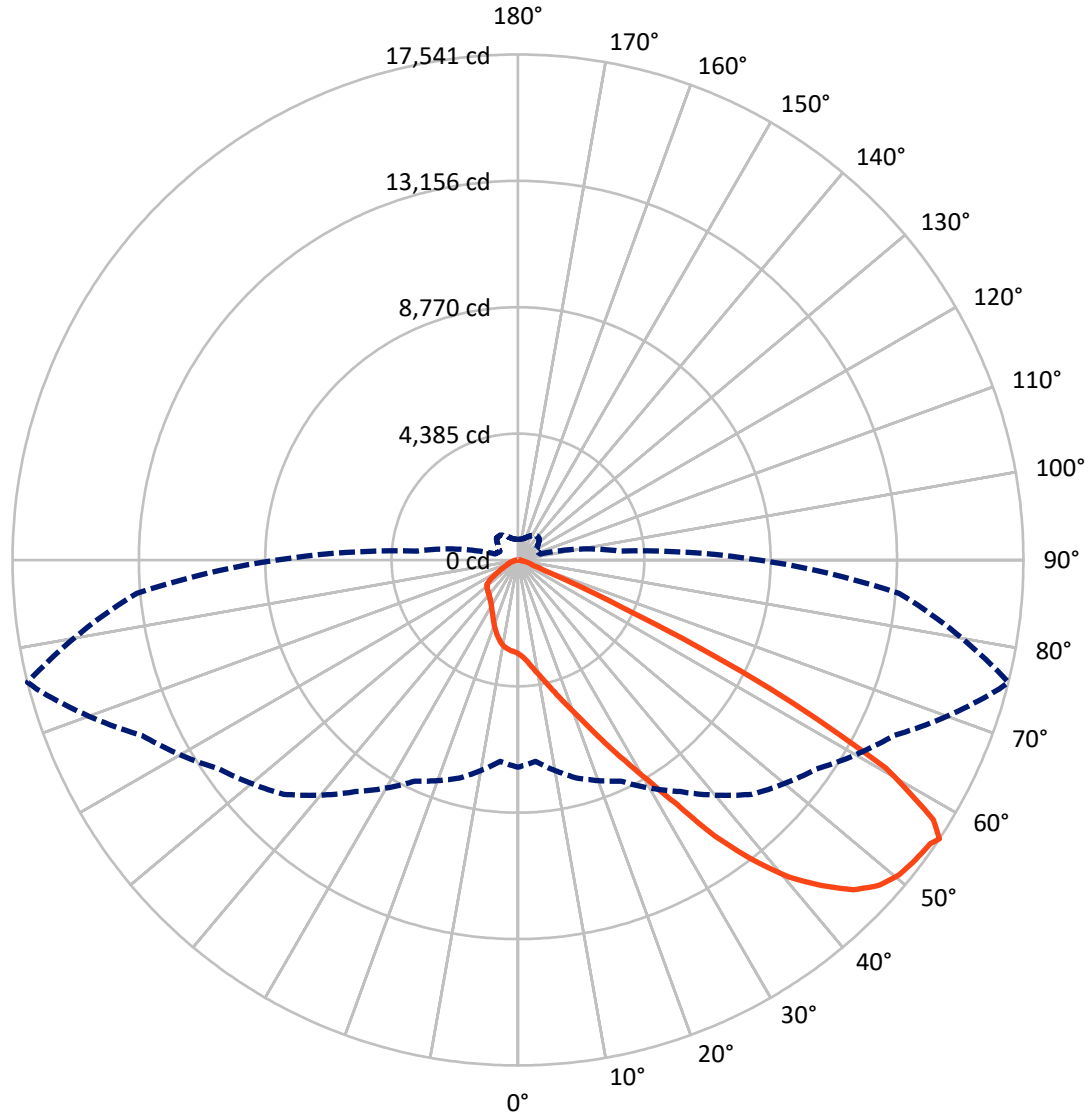
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 fc  
 Type II - Short - N/A

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### 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
<b>House Side</b>	Lumens	3071.5	0.0	3071.5
	% Fixture	15.7	0.0	15.7
<b>Street Side</b>	Lumens	16480.5	0.0	16480.5
	% Fixture	84.3	0.0	84.3
<b>Total</b>	Lumens	19552.0	0.0	19552.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	327.8	1.7
10°-20°	1053.2	5.4
20°-30°	1909.8	9.8
30°-40°	3293.5	16.8
40°-50°	5350.4	27.4
50°-60°	5639.6	28.8
60°-70°	1723.1	8.8
70°-80°	220.9	1.1
80°-90°	33.6	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°	19552.0	100.0
0°-180°	19552.0	100.0

**Coefficient of Utilization**

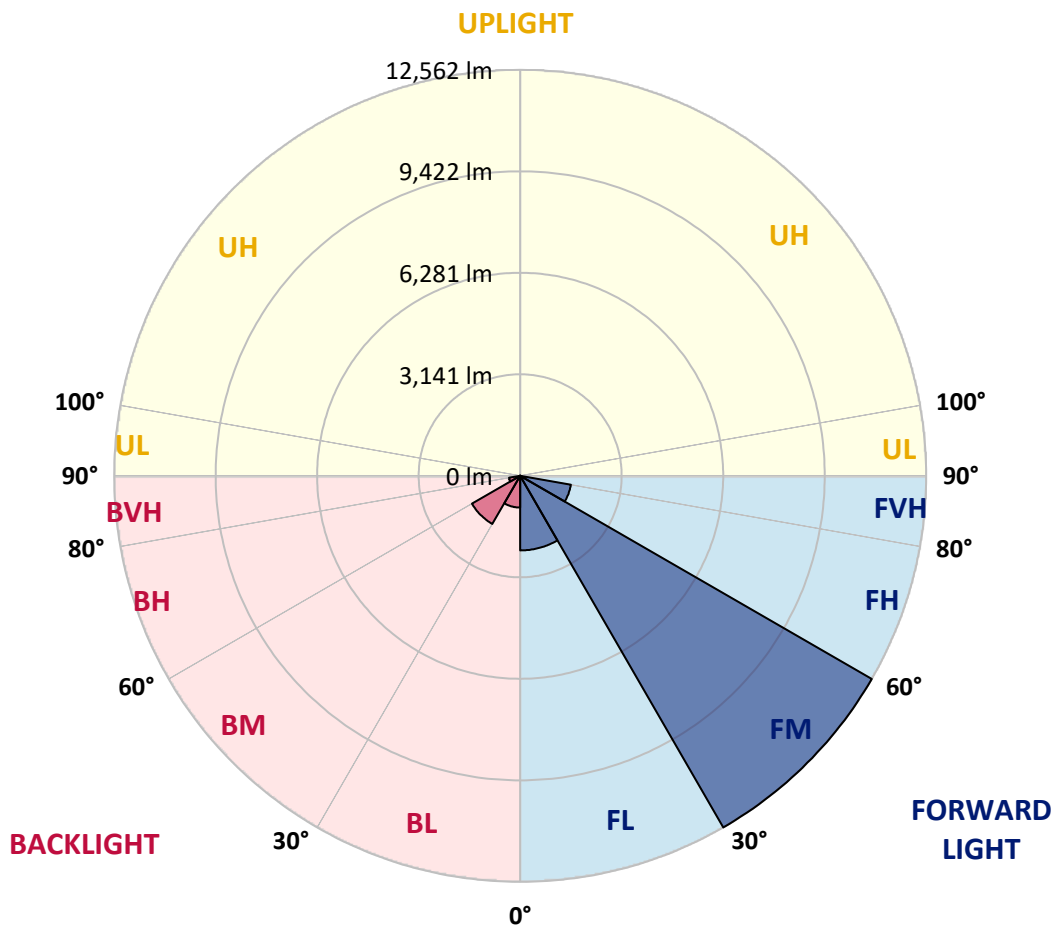


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2308.3	11.8			
FM (30°-60°)	12562.1	64.2			
FH (60°-80°)	1593.6	8.2			G1/1800
FVH (80°-90°)	16.4	0.1			G1/100
BL (0°-30°)	982.6	5.0	B2/1000		
BM (30°-60°)	1721.4	8.8	B2/2500		
BH (60°-80°)	350.4	1.8	B1/500		G1/500
BVH (80°-90°)	17.1	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3254.5	3254.5	3254.5	3254.5	3254.5	3254.5	3254.5	3254.5	3254.5	3254.5	3254.5
2.5°	3748.2	3661.7	3665.3	3658.1	3647.3	3607.7	3488.7	3470.7	3391.4	3369.8	3297.7
5°	4198.7	4123.0	4166.3	4101.4	4040.1	4004.1	3809.5	3719.4	3593.2	3546.4	3445.5
7.5°	4479.8	4443.8	4429.4	4433.0	4375.3	4285.2	4198.7	4000.5	3831.1	3795.1	3582.4
10°	4616.8	4595.2	4616.8	4606.0	4631.2	4642.0	4490.6	4371.7	4123.0	4061.8	3730.2
12.5°	4649.2	4692.5	4710.5	4757.3	4818.6	4923.1	4912.3	4750.1	4418.6	4378.9	3957.3
15°	4728.5	4764.6	4746.5	4822.2	4937.6	5114.2	5207.9	5182.6	4825.8	4753.7	4220.3
17.5°	4800.6	4735.7	4797.0	4948.4	5063.7	5334.0	5561.1	5665.6	5269.1	5186.2	4461.8
20°	4897.9	4879.9	4869.1	4944.8	5150.2	5510.6	5961.1	6152.1	5766.5	5680.0	4807.8
22.5°	5193.4	5197.0	5189.8	5078.1	5225.9	5633.1	6310.7	6782.8	6361.2	6289.1	5200.6
25°	5582.7	5535.8	5499.8	5409.7	5391.7	5744.9	6663.9	7554.1	7074.8	7024.3	5625.9
27.5°	5993.5	5993.5	5885.4	5802.5	5687.2	6022.4	6988.3	8303.7	7936.1	7867.6	5997.1
30°	6440.4	6465.7	6451.3	6274.7	6202.6	6325.1	7319.8	9262.4	8923.6	8837.1	6609.8
32.5°	7100.0	7045.9	7107.2	6959.4	6746.8	6854.9	7842.4	10120.2	10206.7	10084.1	7413.5
35°	7972.2	7939.7	7900.1	7658.6	7406.3	7492.8	8581.3	11176.2	11817.7	11756.4	8224.4
37.5°	8754.2	8736.2	8703.8	8538.0	8246.1	8350.6	9421.0	12275.4	13389.1	13187.2	9370.5
40°	9576.0	9673.3	9568.8	9421.0	9154.3	9385.0	10408.5	12927.7	14711.7	14466.7	10246.3
42.5°	10689.6	10613.9	10660.8	10390.5	10246.3	10498.6	11399.6	13580.1	15738.9	15447.0	11176.2
45°	11875.4	11879.0	11752.8	11666.3	11291.5	11565.4	12008.7	13940.5	16557.0	16330.0	11879.0
47.5°	12635.8	12632.2	12769.2	12906.1	12520.5	12250.2	12423.2	14282.9	16978.7	16874.2	12134.8
50°	12516.9	12552.9	12729.5	13241.3	13443.1	13079.1	12812.4	14181.9	17169.7	17158.9	12354.7
52.5°	10887.8	11006.8	11302.3	12041.1	13057.5	13508.0	13219.7	14369.4	17263.4	17281.4	12682.7
55°	8289.3	8354.2	8916.4	9813.8	10938.3	12480.8	13057.5	14517.1	17335.5	17367.9	13079.1
56°	7190.1	7017.1	7828.0	8465.9	9810.2	11496.9	12646.6	14401.8	17292.2	17540.9	13277.3
57.5°	5427.7	5312.4	5968.3	6764.8	8058.7	9839.1	11370.8	13857.6	17000.3	16996.7	12992.6
60°	3301.3	3186.0	3690.6	4159.1	4883.5	6058.4	7683.8	11035.6	14373.0	14675.7	10520.2
62.5°	1964.2	2036.3	2533.6	2818.4	3052.6	3175.2	3975.3	6559.4	9590.4	9806.6	6526.9
65°	1308.3	1333.5	1708.3	2176.8	2281.4	1816.4	1618.2	2656.2	4159.1	4025.7	2692.2
67.5°	807.3	865.0	1146.1	1636.2	1812.8	1326.3	767.7	991.1	1146.1	1146.1	778.5
70°	490.2	519.0	764.1	1113.7	1243.4	854.2	558.6	558.6	551.4	540.6	464.9
72.5°	234.3	252.3	389.2	573.0	583.9	450.5	432.5	472.1	461.3	457.7	385.6
75°	100.9	108.1	137.0	180.2	205.4	191.0	263.1	338.8	349.6	338.8	277.5
77.5°	32.4	36.0	50.5	64.9	68.5	82.9	111.7	140.6	162.2	151.4	137.0
80°	3.6	7.2	14.4	32.4	50.5	64.9	82.9	93.7	104.5	104.5	97.3
82.5°	3.6	3.6	14.4	28.8	46.9	61.3	79.3	90.1	104.5	108.1	100.9
85°	0.0	3.6	10.8	25.2	39.6	39.6	36.0	36.0	25.2	25.2	25.2
87.5°	0.0	0.0	3.6	3.6	3.6	7.2	7.2	7.2	7.2	7.2	7.2
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°	3254.5	3254.5	3254.5	3254.5	3254.5	3254.5	3254.5	3254.5	3254.5	3254.5	3254.5
2.5°	3283.3	3276.1	3178.8	3117.5	3085.1	3020.2	2980.6	2951.7	2930.1	2904.9	2908.5
5°	3326.5	3301.3	3139.1	3027.4	2894.1	2822.0	2760.7	2710.2	2677.8	2670.6	2656.2
7.5°	3449.1	3315.7	3070.7	2868.8	2699.4	2627.4	2573.3	2540.9	2555.3	2522.8	2548.1
10°	3542.8	3344.6	2987.8	2695.8	2526.4	2472.4	2443.5	2468.8	2504.8	2490.4	2472.4
12.5°	3658.1	3373.4	2854.4	2530.0	2371.5	2331.8	2382.3	2429.1	2501.2	2530.0	2494.0
15°	3787.9	3405.8	2685.0	2339.0	2238.1	2270.6	2357.1	2439.9	2512.0	2548.1	2569.7
17.5°	3946.4	3395.0	2519.2	2187.7	2112.0	2205.7	2310.2	2385.9	2494.0	2548.1	2533.6
20°	4094.2	3359.0	2335.4	2036.3	2039.9	2126.4	2212.9	2335.4	2393.1	2465.2	2439.9
22.5°	4234.8	3294.1	2144.4	1931.8	1931.8	2065.1	2108.4	2187.7	2238.1	2274.2	2270.6
25°	4433.0	3171.6	1985.8	1830.9	1874.1	1960.6	1996.6	2021.9	2000.2	2029.1	2032.7
27.5°	4573.5	3045.4	1856.1	1740.8	1820.0	1884.9	1874.1	1859.7	1809.2	1769.6	1794.8
30°	4724.9	2897.7	1744.4	1679.5	1722.7	1780.4	1737.2	1693.9	1614.6	1549.7	1553.3
32.5°	4941.2	2829.2	1647.1	1607.4	1665.1	1672.3	1625.4	1560.6	1481.3	1420.0	1416.4
35°	5344.8	2785.9	1564.2	1560.6	1571.4	1575.0	1528.1	1448.8	1416.4	1365.9	1384.0
37.5°	5748.5	2764.3	1506.5	1492.1	1488.5	1492.1	1438.0	1362.3	1423.6	1420.0	1427.2
40°	6263.8	2861.6	1423.6	1405.6	1409.2	1409.2	1340.7	1319.1	1427.2	1438.0	1441.6
42.5°	6786.4	2984.2	1369.5	1311.9	1326.3	1326.3	1290.3	1265.0	1340.7	1268.6	1257.8
45°	7240.5	3164.4	1311.9	1218.2	1254.2	1272.2	1261.4	1218.2	1171.3	1048.8	1048.8
47.5°	7388.3	3322.9	1243.4	1128.1	1156.9	1236.2	1203.8	1113.7	1030.8	929.8	922.6
50°	7647.8	3495.9	1189.3	1023.6	1084.8	1182.1	1149.7	1059.6	965.9	893.8	897.4
52.5°	7914.5	3694.2	1088.4	901.0	976.7	1138.9	1138.9	1038.0	893.8	843.3	836.1
55°	8314.6	3686.9	908.2	738.8	872.2	1074.0	1092.0	929.8	800.1	760.5	760.5
56°	8372.2	3521.2	818.1	692.0	825.3	1056.0	1059.6	901.0	764.1	720.8	720.8
57.5°	7939.7	3178.8	717.2	634.3	767.7	1023.6	1027.2	875.8	735.2	674.0	666.7
60°	6108.9	2151.6	598.3	565.8	695.6	922.6	940.7	796.5	645.1	598.3	594.7
62.5°	3449.1	1192.9	526.2	511.8	598.3	785.7	839.7	695.6	547.8	522.6	529.8
65°	1575.0	655.9	443.3	414.5	482.9	605.5	677.6	573.0	450.5	421.7	421.7
67.5°	576.6	446.9	378.4	328.0	338.8	392.8	439.7	371.2	299.1	255.9	266.7
70°	410.9	374.8	331.6	284.7	263.1	255.9	252.3	209.0	147.8	115.3	122.5
72.5°	331.6	309.9	277.5	241.5	205.4	173.0	147.8	108.1	68.5	46.9	43.2
75°	237.9	227.1	201.8	173.0	144.2	122.5	100.9	68.5	36.0	18.0	18.0
77.5°	122.5	122.5	118.9	108.1	90.1	72.1	57.7	39.6	21.6	7.2	7.2
80°	93.7	100.9	104.5	93.7	82.9	64.9	46.9	28.8	14.4	3.6	3.6
82.5°	90.1	104.5	111.7	97.3	82.9	61.3	46.9	28.8	14.4	3.6	3.6
85°	21.6	21.6	32.4	36.0	46.9	50.5	39.6	25.2	10.8	3.6	3.6
87.5°	7.2	7.2	7.2	7.2	7.2	7.2	3.6	3.6	3.6	3.6	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)