

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: P268494

Luminaire Tested: **GAN-AF-05-LED-U-AFL-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268494
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24165)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-05-LED-U-AFL-7027-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17470.4 lumens
Efficiency: N/A
Efficacy: 107.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

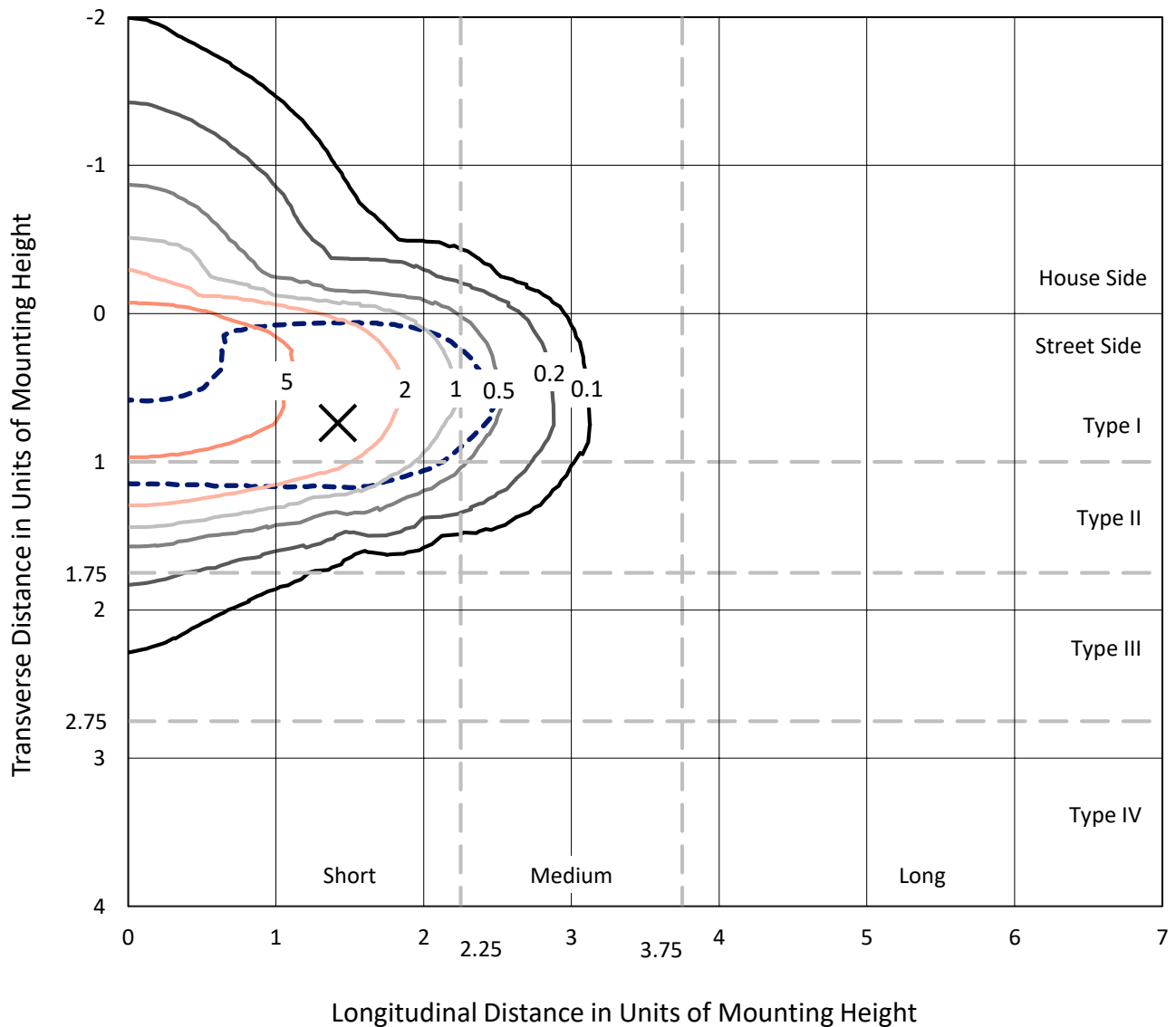
Input Watts (W): 162
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

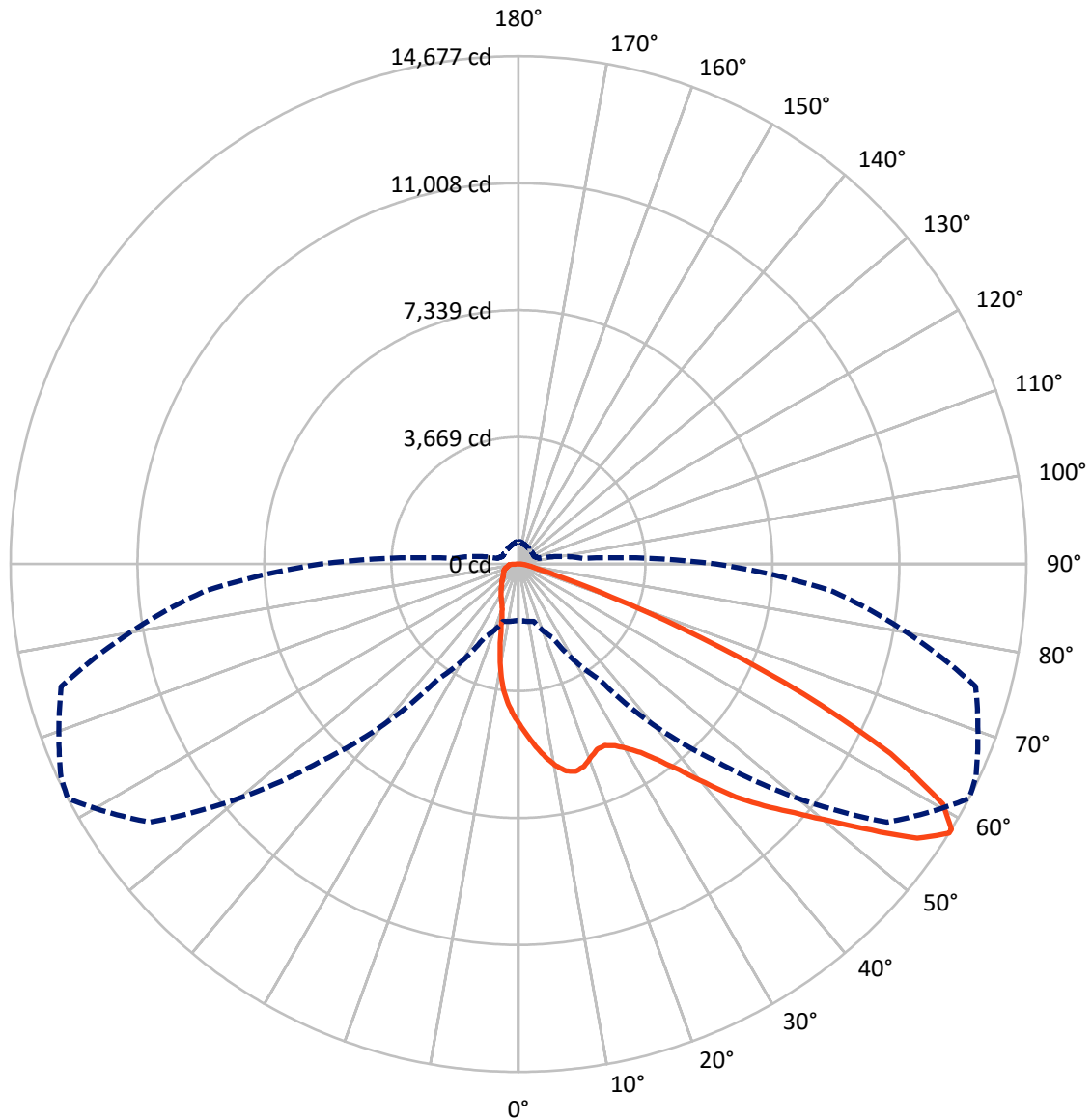
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 62.5-Deg Lateral - - - Horizontal Cone Through 58-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2664.3	0.0	2664.3
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	14806.1	0.0	14806.1
	% Fixture	84.7	0.0	84.7
Total	Lumens	17470.4	0.0	17470.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	415.0	2.4
10°-20°	1060.9	6.1
20°-30°	1715.0	9.8
30°-40°	2722.5	15.6
40°-50°	3983.6	22.8
50°-60°	4166.5	23.8
60°-70°	2461.6	14.1
70°-80°	693.4	4.0
80°-90°	251.8	1.4
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°	17470.4	100.0
0°-180°	17470.4	100.0

Coefficient of Utilization



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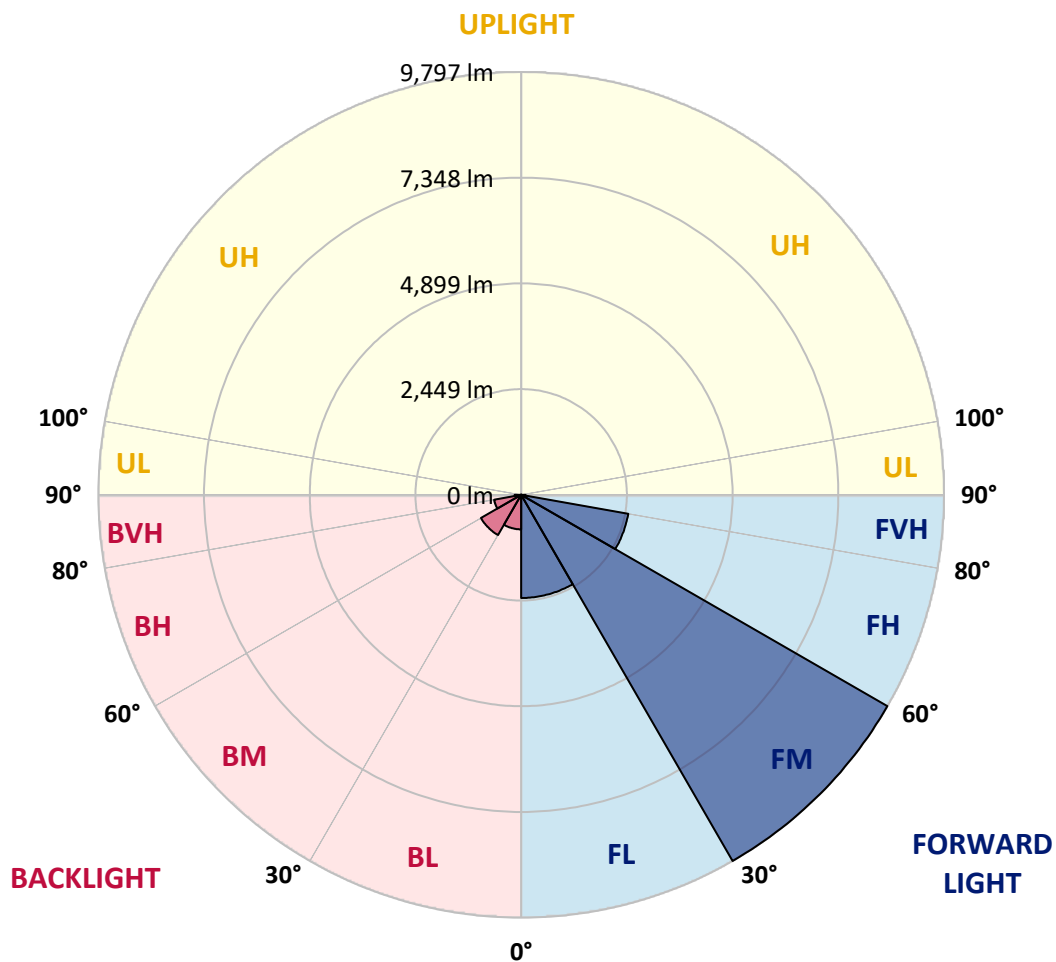
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2390.2	13.7			
FM	(30°-60°)	9797.3	56.1			
FH	(60°-80°)	2519.3	14.4			G2/5000
FVH	(80°-90°)	99.3	0.6			G1/100
BL	(0°-30°)	800.8	4.6	B2/1000		
BM	(30°-60°)	1075.4	6.2	B2/2500		
BH	(60°-80°)	635.7	3.6	B2/1000		G2/1000
BVH	(80°-90°)	152.4	0.9			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	4640.6	4640.6	4640.6	4640.6	4640.6	4640.6	4640.6	4640.6	4640.6	4640.6	4640.6
2.5°	5302.9	5260.1	5232.9	5209.1	5177.8	5111.1	5021.5	4964.8	4935.9	4838.1	4722.1
5°	5822.9	5784.9	5757.0	5724.9	5668.9	5564.6	5419.7	5304.5	5247.8	5052.0	4819.9
7.5°	5701.1	5716.8	5765.2	5849.9	5922.3	5908.4	5779.2	5632.8	5558.0	5285.5	4933.5
10°	4967.3	4994.3	5078.3	5276.6	5597.3	5926.5	6026.9	5925.7	5849.9	5516.9	5050.4
12.5°	4819.9	4819.1	4825.8	4878.3	5069.2	5532.4	6035.1	6137.1	6091.9	5737.2	5169.7
15°	4880.0	4881.7	4876.8	4898.9	4958.1	5141.7	5783.3	6218.4	6250.5	5959.4	5293.1
17.5°	5038.1	5033.9	5015.0	5015.0	5036.3	5107.9	5487.1	6142.8	6290.9	6155.9	5401.6
20°	5302.9	5284.0	5233.7	5187.7	5164.6	5203.3	5365.3	5968.3	6221.0	6327.9	5491.2
22.5°	5623.7	5608.9	5527.5	5428.7	5349.0	5348.1	5428.0	5816.3	6100.0	6490.0	5566.9
25°	6038.3	6014.5	5893.6	5735.6	5595.7	5542.4	5564.6	5808.8	6034.3	6666.1	5634.3
27.5°	6525.4	6481.8	6338.6	6110.7	5905.1	5797.3	5765.2	5942.9	6094.3	6884.0	5728.2
30°	7116.1	7065.9	6882.5	6585.5	6295.1	6118.1	6049.8	6180.7	6293.3	7149.8	5878.8
32.5°	7788.1	7715.7	7503.5	7176.1	6794.4	6524.6	6413.4	6494.9	6584.5	7469.8	6067.2
35°	8717.0	8630.6	8323.8	7872.0	7441.0	7070.0	6892.2	6951.5	7038.7	7946.9	6339.5
37.5°	9350.4	9311.7	9107.7	8683.2	8214.3	7787.3	7512.5	7547.1	7596.4	8543.4	6688.3
40°	9344.7	9360.2	9364.4	9368.6	9049.3	8640.4	8345.2	8309.0	8299.0	9198.3	7084.8
42.5°	8876.5	8940.7	9148.0	9568.3	9762.6	9574.9	9304.4	9199.8	9148.0	9969.8	7505.2
45°	8160.1	8194.6	8582.9	9403.8	10127.9	10500.5	10295.7	9966.5	9872.8	10679.1	7854.1
47.5°	7790.6	7828.5	8072.8	8967.9	10123.7	11248.2	11366.8	10739.9	10572.1	11295.9	8155.1
50°	6911.2	6990.3	7297.8	8209.4	9754.3	11592.2	12486.4	11661.3	11314.2	11896.6	8457.1
52.5°	5296.2	5418.0	5762.7	6962.3	8817.4	11421.9	13382.3	12778.4	12288.2	12518.5	8716.2
55°	3340.8	3431.3	3720.9	4917.1	7053.5	10535.9	13722.0	13986.9	13550.9	13107.4	8940.7
57.5°	1816.5	1856.7	1965.3	2714.8	4588.1	8577.0	13226.9	14674.7	14493.8	13607.6	9110.3
58°	1625.7	1652.7	1720.2	2352.8	4069.0	8041.5	13007.2	14677.1	14586.7	13680.8	9123.4
60°	1206.1	1192.1	1132.0	1342.5	2264.7	5555.5	11679.4	14089.7	14355.5	13770.6	9059.1
62.5°	1059.6	1025.9	903.2	889.3	1101.5	2559.4	8936.6	12069.3	12697.1	13258.9	8669.3
65°	995.4	959.2	801.3	750.3	794.7	1082.6	5264.2	9051.9	9839.0	11707.3	7672.2
67.5°	947.7	900.8	736.3	666.4	669.6	715.7	2110.1	5701.1	6587.1	8888.9	5967.6
70°	901.7	850.7	681.2	600.5	581.7	566.0	839.0	2853.8	3657.5	5614.6	3804.9
72.5°	852.3	802.0	632.6	548.8	511.8	459.8	547.8	1167.3	1630.6	2656.4	1726.0
75°	780.6	735.4	584.1	502.6	450.1	380.9	413.8	609.6	731.3	1057.9	831.7
77.5°	692.8	655.7	529.8	464.9	398.9	309.3	318.4	422.8	468.9	605.5	494.3
80°	497.8	510.9	471.4	417.9	355.4	250.8	244.2	308.5	333.2	389.1	321.7
82.5°	349.6	357.0	390.0	341.4	293.7	197.4	180.2	217.2	232.0	255.8	173.6
85°	241.0	232.8	267.3	237.7	212.3	131.6	123.3	147.2	156.3	158.8	89.7
87.5°	144.7	144.7	154.7	127.5	114.4	68.4	66.7	83.9	89.7	85.6	49.3
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°	4640.6	4640.6	4640.6	4640.6	4640.6	4640.6	4640.6	4640.6	4640.6	4640.6	4640.6
2.5°	4653.0	4594.7	4470.3	4370.9	4244.9	4114.1	4040.9	3962.8	3909.3	3870.6	3932.3
5°	4688.3	4569.0	4312.5	4069.0	3799.9	3520.2	3307.9	3110.6	2973.1	2887.5	2968.2
7.5°	4744.3	4560.9	4152.0	3735.7	3252.9	2787.3	2370.9	2110.1	1957.9	1883.0	1930.0
10°	4808.4	4547.7	3963.6	3284.1	2593.0	2006.5	1695.6	1590.2	1555.7	1541.8	1548.3
12.5°	4861.9	4519.7	3732.5	2737.9	1947.3	1584.4	1494.8	1492.4	1499.7	1501.3	1503.9
15°	4899.7	4478.6	3389.3	2168.6	1557.3	1443.8	1438.8	1453.6	1467.7	1473.4	1476.6
17.5°	4925.2	4393.9	3001.9	1714.4	1395.2	1375.5	1387.1	1405.9	1420.7	1424.8	1428.1
20°	4922.8	4269.6	2540.3	1429.8	1307.3	1307.3	1326.9	1341.8	1342.5	1337.7	1340.1
22.5°	4897.3	4099.3	2092.8	1278.4	1229.1	1243.1	1262.7	1248.9	1191.2	1153.3	1155.8
25°	4854.5	3896.0	1709.6	1182.2	1156.7	1181.4	1175.6	1070.3	988.0	950.9	950.9
27.5°	4816.7	3655.9	1415.0	1098.3	1084.3	1114.6	1012.7	917.3	882.8	865.4	859.7
30°	4789.6	3396.9	1218.5	1017.6	1016.1	993.7	878.6	852.3	846.6	832.5	827.6
32.5°	4796.1	3134.4	1092.5	947.0	952.7	850.7	814.5	820.2	815.2	800.5	793.8
35°	4850.4	2885.0	1010.2	882.8	865.4	768.4	776.6	787.3	785.7	765.0	758.4
37.5°	4947.5	2649.0	955.9	829.2	755.2	727.3	740.5	756.8	752.7	738.8	733.8
40°	5049.6	2426.9	911.5	787.3	690.2	699.3	710.7	719.8	723.9	728.0	724.8
42.5°	5149.1	2194.9	857.3	744.5	663.0	672.9	678.0	686.9	709.1	724.8	723.9
45°	5208.4	1976.9	801.3	683.6	641.7	647.5	644.2	662.2	689.4	715.0	715.7
47.5°	5274.0	1807.4	756.8	627.6	621.1	625.2	615.3	633.5	658.1	689.4	692.8
50°	5353.9	1706.2	721.5	583.3	593.2	593.2	590.6	607.2	641.7	678.0	684.5
52.5°	5444.4	1686.5	691.9	551.2	565.2	564.3	566.8	591.5	629.4	664.7	670.5
55°	5554.6	1739.9	659.7	527.3	538.1	541.3	549.6	577.5	609.6	650.0	652.3
57.5°	5682.9	1848.5	634.3	508.4	513.3	524.0	537.1	562.7	597.3	641.7	644.2
58°	5704.3	1871.6	630.3	506.7	508.4	520.7	535.6	560.3	594.8	643.4	645.8
60°	5705.1	1948.1	621.1	499.4	489.4	510.1	526.4	551.2	590.6	649.0	654.9
62.5°	5502.7	1947.3	614.5	488.7	469.8	495.2	514.2	542.9	586.6	663.0	674.5
65°	4845.5	1769.5	583.3	472.1	454.2	482.1	503.5	537.1	598.1	723.9	731.3
67.5°	3789.9	1450.4	524.9	449.2	433.5	468.9	496.9	536.4	610.4	738.0	742.9
70°	2505.8	1085.2	460.7	422.8	412.1	453.3	500.1	564.3	596.5	708.4	695.2
72.5°	1300.7	761.9	408.9	390.0	387.4	439.4	547.8	561.0	582.5	666.4	650.0
75°	682.8	529.0	363.6	353.8	357.9	435.9	646.6	546.3	564.3	637.5	668.8
77.5°	417.9	427.0	324.9	320.9	329.0	426.2	645.8	527.3	538.1	586.6	621.1
80°	279.7	346.3	295.4	296.1	301.9	390.0	579.9	497.8	505.9	554.4	589.8
82.5°	176.8	204.9	268.1	282.2	274.8	321.7	492.8	453.3	464.9	634.3	670.5
85°	89.7	128.4	232.8	271.5	247.7	225.5	399.8	397.3	403.1	457.3	478.0
87.5°	41.1	70.7	181.7	237.0	186.8	140.7	290.4	294.6	317.6	324.9	324.9
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)