

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: P300439

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300439
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: GAA-AF-05-LED-U-AFL-7027-600
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Automotive Frontline OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17409.6 lumens
Efficiency: N/A
Efficacy: 107.5 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

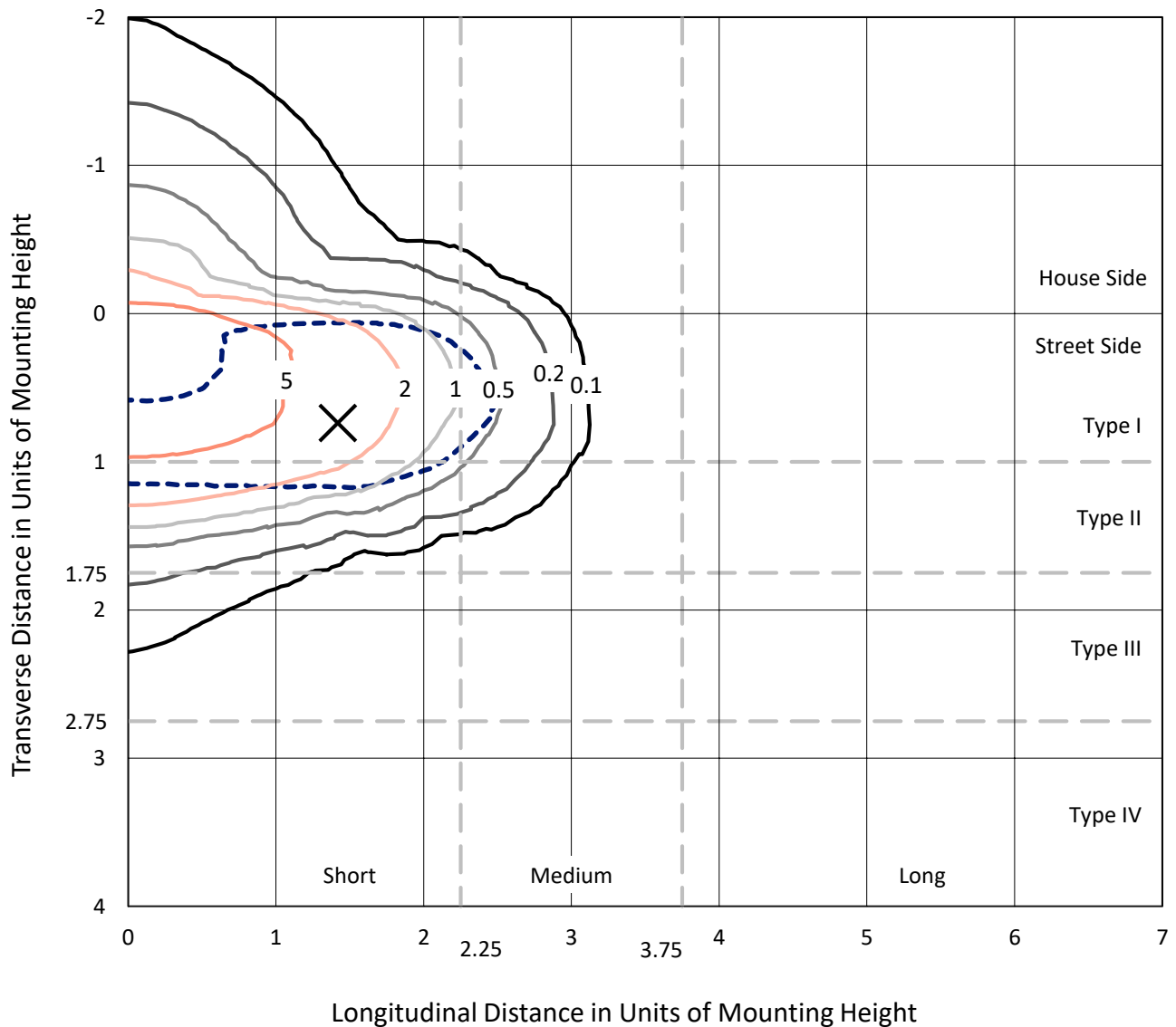


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Iso-Footcandle Lines of Horizontal Illumination

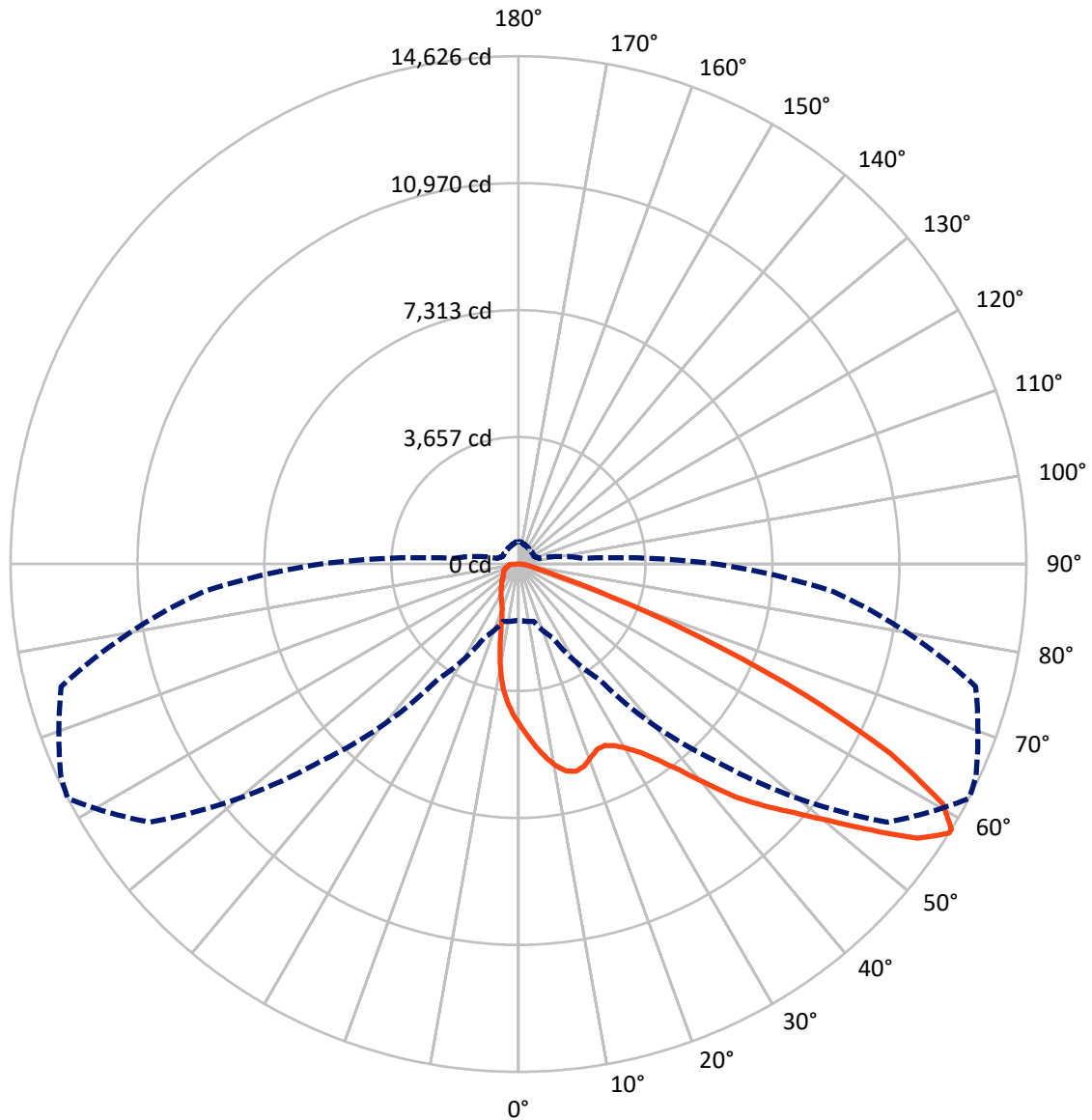
✕ Max cd
 - - - 1/2 Max cd



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	2655.0	0.0	2655.0
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	14754.6	0.0	14754.6
	% Fixture	84.7	0.0	84.7
Total	Lumens	17409.6	0.0	17409.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	413.6	2.4
10°-20°	1057.2	6.1
20°-30°	1709.0	9.8
30°-40°	2713.1	15.6
40°-50°	3969.8	22.8
50°-60°	4152.0	23.8
60°-70°	2453.0	14.1
70°-80°	691.0	4.0
80°-90°	250.9	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°	17409.6	100.0
0°-180°	17409.6	100.0

Coefficient of Utilization



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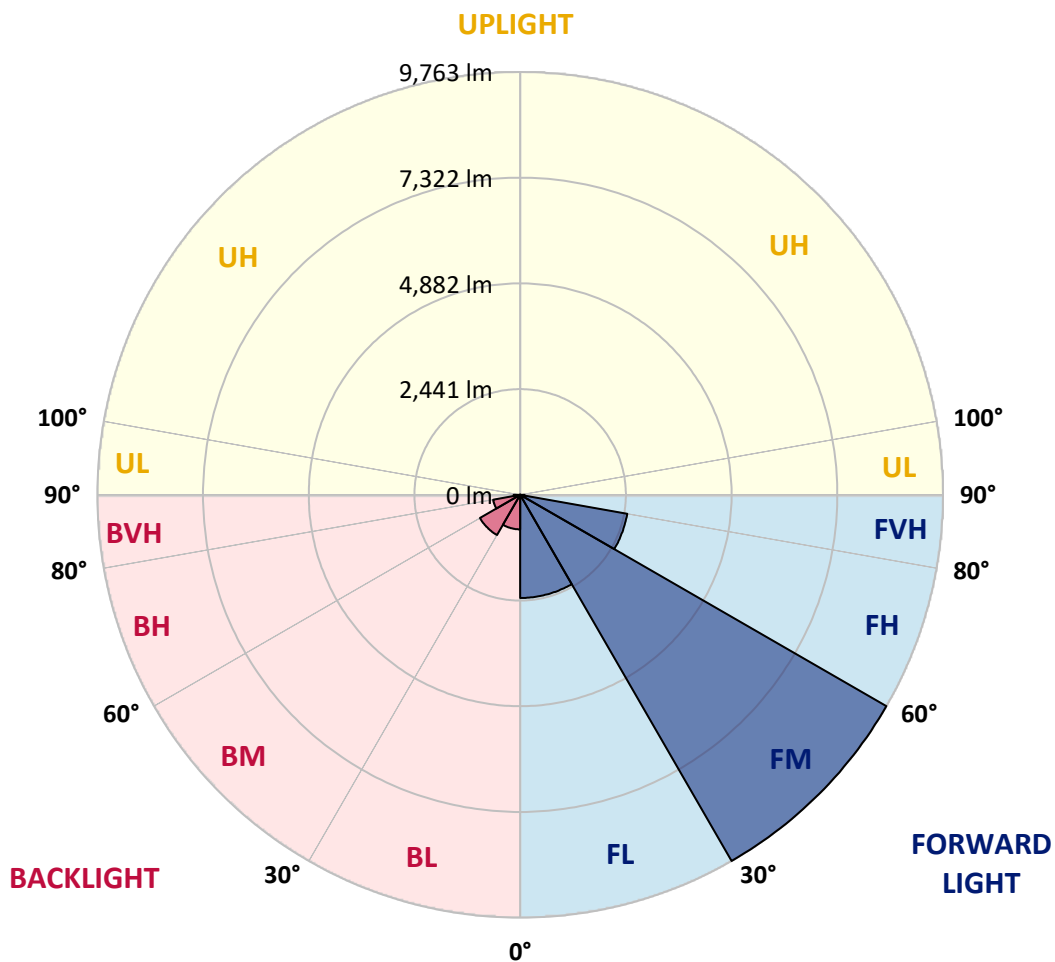
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2381.9	13.7			
FM (30°-60°)	9763.2	56.1			
FH (60°-80°)	2510.5	14.4			G2/5000
FVH (80°-90°)	99.0	0.6			G1/100
BL (0°-30°)	798.0	4.6	B2/1000		
BM (30°-60°)	1071.6	6.2	B2/2500		
BH (60°-80°)	633.5	3.6	B2/1000		G2/1000
BVH (80°-90°)	151.9	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°	4624.5	4624.5	4624.5	4624.5	4624.5	4624.5	4624.5	4624.5	4624.5	4624.5	4624.5
2.5°	5284.5	5241.8	5214.8	5191.0	5159.8	5093.4	5004.1	4947.5	4918.8	4821.3	4705.7
5°	5802.6	5764.9	5737.0	5705.0	5649.3	5545.2	5400.9	5286.1	5229.5	5034.4	4803.2
7.5°	5681.2	5696.8	5745.2	5829.6	5901.8	5887.8	5759.1	5613.2	5538.6	5267.2	4916.4
10°	4950.0	4977.0	5060.7	5258.2	5577.9	5905.9	6005.9	5905.0	5829.6	5497.6	5032.8
12.5°	4803.2	4802.4	4809.0	4861.4	5051.6	5513.2	6014.1	6115.7	6070.6	5717.3	5151.6
15°	4863.1	4864.7	4859.8	4881.9	4941.0	5123.8	5763.2	6196.9	6228.9	5938.7	5274.6
17.5°	5020.5	5016.4	4997.5	4997.5	5018.8	5090.2	5468.1	6121.5	6269.0	6134.6	5382.8
20°	5284.5	5265.6	5215.6	5169.7	5146.7	5185.3	5346.8	5947.7	6199.4	6305.9	5472.2
22.5°	5604.2	5589.4	5508.3	5409.9	5330.4	5329.5	5409.1	5796.0	6078.8	6467.4	5547.6
25°	6017.4	5993.6	5873.1	5715.7	5576.3	5523.0	5545.2	5788.6	6013.3	6642.9	5614.8
27.5°	6502.7	6459.2	6316.6	6089.5	5884.6	5777.2	5745.2	5922.3	6073.1	6860.1	5708.3
30°	7091.3	7041.3	6858.5	6562.5	6273.1	6096.9	6028.8	6159.2	6271.5	7124.9	5858.3
32.5°	7761.1	7688.9	7477.4	7151.2	6770.8	6501.9	6391.2	6472.4	6561.7	7443.8	6046.1
35°	8686.6	8600.6	8294.8	7844.7	7415.1	7045.4	6868.3	6927.3	7014.2	7919.3	6317.4
37.5°	9317.9	9279.4	9076.1	8653.0	8185.7	7760.3	7486.5	7520.9	7570.1	8513.7	6665.0
40°	9312.2	9327.7	9331.8	9335.9	9017.8	8610.4	8316.1	8280.0	8270.2	9166.2	7060.2
42.5°	8845.7	8909.6	9116.2	9535.1	9728.6	9541.7	9272.0	9167.9	9116.2	9935.2	7479.1
45°	8131.6	8166.1	8553.0	9371.2	10092.6	10464.0	10259.8	9931.9	9838.5	10641.9	7826.7
47.5°	7763.5	7801.3	8044.7	8936.7	10088.5	11209.2	11327.2	10702.5	10535.3	11256.7	8126.7
50°	6887.2	6965.9	7272.5	8180.8	9720.4	11551.9	12443.0	11620.7	11274.8	11855.2	8427.6
52.5°	5277.9	5399.2	5742.7	6938.0	8786.7	11382.2	13335.8	12734.0	12245.4	12475.0	8685.8
55°	3329.2	3419.4	3708.0	4900.0	7029.0	10499.2	13674.3	13938.3	13503.8	13061.9	8909.6
57.5°	1810.1	1850.3	1958.5	2705.4	4572.0	8547.3	13180.8	14623.7	14443.3	13560.4	9078.5
58°	1619.9	1647.0	1714.2	2344.6	4054.8	8013.6	12961.9	14626.1	14535.9	13633.3	9091.6
60°	1201.8	1187.9	1128.1	1337.9	2256.9	5536.1	11638.8	14040.8	14305.6	13722.7	9027.7
62.5°	1055.9	1022.3	900.1	886.2	1097.7	2550.4	8905.5	12027.3	12652.9	13212.8	8639.1
65°	992.0	955.9	798.5	747.7	791.9	1078.9	5245.9	9020.3	9804.9	11666.6	7645.5
67.5°	944.4	897.7	733.7	664.0	667.3	713.2	2102.8	5681.2	6564.2	8858.0	5946.9
70°	898.5	847.7	678.8	598.5	579.6	564.0	836.2	2843.9	3644.8	5595.2	3791.6
72.5°	849.3	799.3	630.4	546.8	509.9	458.3	546.0	1163.3	1624.9	2647.1	1719.9
75°	778.0	732.9	582.1	500.9	448.4	379.6	412.4	607.5	728.8	1054.3	828.8
77.5°	690.3	653.4	528.0	463.2	397.6	308.2	317.3	421.4	467.3	603.4	492.7
80°	496.0	509.1	469.7	416.5	354.2	250.0	243.5	307.4	332.0	387.8	320.5
82.5°	348.4	355.8	388.6	340.2	292.7	196.8	179.5	216.4	231.2	255.0	173.0
85°	240.2	232.0	266.4	236.9	211.5	131.2	123.0	146.7	155.8	158.2	89.4
87.5°	144.3	144.3	154.1	127.1	114.0	68.0	66.4	83.6	89.4	85.3	49.2
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°	4624.5	4624.5	4624.5	4624.5	4624.5	4624.5	4624.5	4624.5	4624.5	4624.5	4624.5
2.5°	4636.8	4578.6	4454.8	4355.6	4230.2	4099.8	4026.9	3949.0	3895.7	3857.2	3918.7
5°	4672.1	4553.2	4297.4	4054.8	3786.7	3507.9	3296.4	3099.7	2962.8	2877.5	2957.9
7.5°	4727.8	4545.0	4137.6	3722.7	3241.5	2777.5	2362.7	2102.8	1951.1	1876.5	1923.3
10°	4791.8	4531.9	3949.8	3272.7	2584.0	1999.5	1689.6	1584.7	1550.2	1536.3	1542.9
12.5°	4845.0	4504.0	3719.5	2728.3	1940.5	1578.9	1489.6	1487.1	1494.5	1496.1	1498.6
15°	4882.8	4463.0	3377.6	2161.0	1551.9	1438.8	1433.8	1448.6	1462.5	1468.3	1471.5
17.5°	4908.2	4378.6	2991.5	1708.5	1390.4	1370.7	1382.2	1401.0	1415.8	1419.9	1423.2
20°	4905.7	4254.8	2531.6	1424.8	1302.7	1302.7	1322.3	1337.1	1337.9	1333.0	1335.5
22.5°	4880.3	4085.1	2085.6	1274.0	1224.8	1238.7	1258.4	1244.5	1187.1	1149.4	1151.8
25°	4837.7	3882.6	1703.6	1178.1	1152.6	1177.2	1171.5	1066.6	984.6	947.7	947.7
27.5°	4800.0	3643.2	1410.1	1094.4	1080.5	1110.8	1009.2	914.1	879.6	862.4	856.7
30°	4772.9	3385.0	1214.1	1014.1	1012.5	990.3	875.6	849.3	843.6	829.6	824.7
32.5°	4779.5	3123.5	1088.7	943.6	949.3	847.7	811.6	817.3	812.4	797.7	791.1
35°	4833.6	2875.1	1006.7	879.6	862.4	765.7	773.9	784.6	782.9	762.4	755.9
37.5°	4930.3	2639.8	952.6	826.4	752.6	724.7	737.8	754.2	750.1	736.2	731.3
40°	5032.0	2418.4	908.3	784.6	687.8	696.8	708.3	717.3	721.4	725.5	722.2
42.5°	5131.2	2187.2	854.2	741.9	660.8	670.6	675.5	684.5	706.7	722.2	721.4
45°	5190.2	1970.0	798.5	681.3	639.4	645.2	641.9	659.9	687.0	712.4	713.2
47.5°	5255.8	1801.1	754.2	625.5	619.0	623.1	613.2	631.2	655.8	687.0	690.3
50°	5335.3	1700.3	719.0	581.2	591.1	591.1	588.6	605.0	639.4	675.5	682.1
52.5°	5425.5	1680.6	689.5	549.3	563.2	562.4	564.8	589.4	627.2	662.4	668.1
55°	5535.3	1733.9	657.5	525.5	536.2	539.4	547.6	575.5	607.5	647.6	650.1
57.5°	5663.2	1842.1	632.1	506.6	511.6	522.2	535.3	560.7	595.2	639.4	641.9
58°	5684.5	1865.1	628.0	505.0	506.6	518.9	533.7	558.3	592.7	641.1	643.5
60°	5685.3	1941.3	619.0	497.6	487.8	508.3	524.7	549.3	588.6	646.8	652.6
62.5°	5483.7	1940.5	612.4	487.0	468.1	493.5	512.4	541.1	584.5	660.8	672.2
65°	4828.6	1763.4	581.2	470.6	452.5	480.4	501.7	535.3	596.0	721.4	728.8
67.5°	3776.8	1445.3	523.0	447.6	432.0	467.3	495.2	534.5	608.3	735.4	740.3
70°	2497.1	1081.3	459.1	421.4	410.7	451.7	498.4	562.4	594.4	705.9	692.7
72.5°	1296.1	759.1	407.4	388.6	386.1	437.8	546.0	559.1	580.4	664.0	647.6
75°	680.4	527.1	362.4	352.5	356.6	434.5	644.4	544.3	562.4	635.3	666.5
77.5°	416.5	425.5	323.8	319.7	327.9	424.7	643.5	525.5	536.2	584.5	619.0
80°	278.7	345.1	294.3	295.1	300.9	388.6	578.0	496.0	504.2	552.5	587.8
82.5°	176.3	204.1	267.3	281.2	273.8	320.5	491.1	451.7	463.2	632.1	668.1
85°	89.4	127.9	232.0	270.5	246.8	224.6	398.4	396.0	401.7	455.8	476.3
87.5°	41.0	70.5	181.2	236.1	186.1	140.2	289.4	293.5	316.4	323.8	323.8
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)