

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: P194847

Luminaire Tested: **GAN-AF-09-LED-U-T3R-7060-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194847
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P40129)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-09-LED-U-T3R-7060-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 59686 lumens
Efficiency: N/A
Efficacy: 103.8 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B4 - U0 - G5

Input Watts (W): 575
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

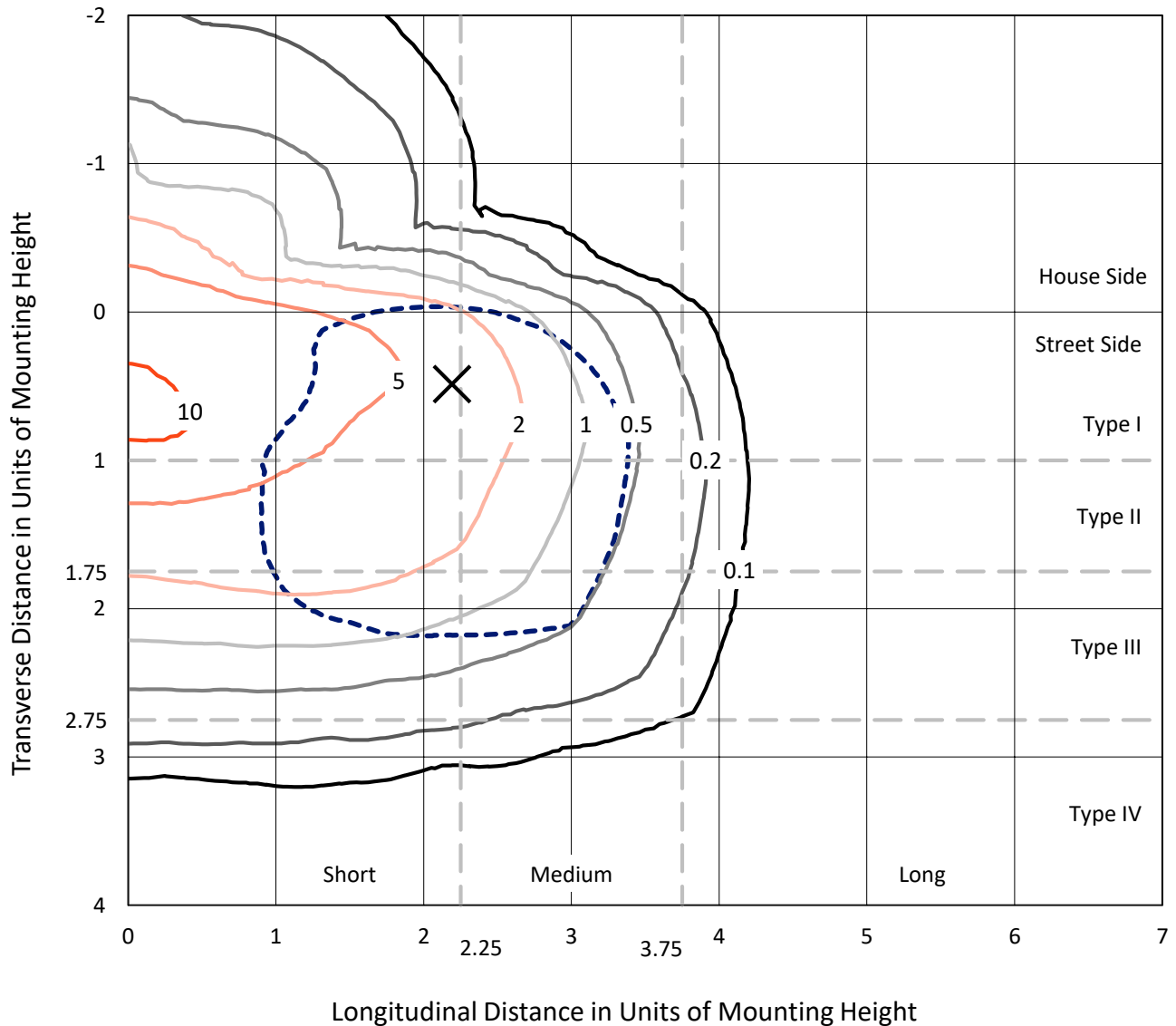


REPORT NUMBER: P194847

CATALOG NUMBER: GAN-AF-09-LED-U-T3R-7060-1200

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

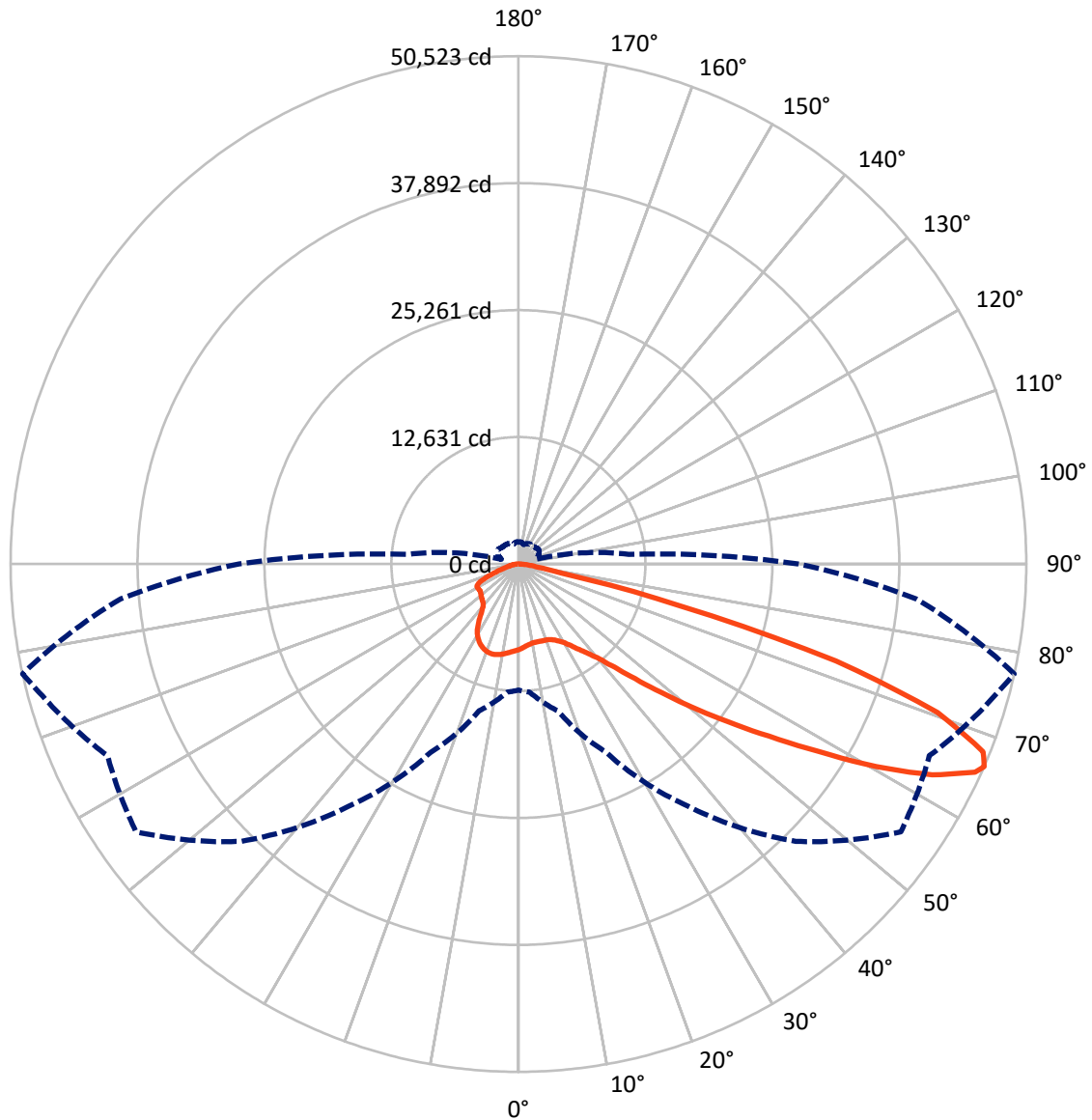


Based on 30 foot mounting height. Maximum calculated value = 11.6 fc
 Type III - Short - Full Cutoff

REPORT NUMBER: P194847

CATALOG NUMBER: GAN-AF-09-LED-U-T3R-7060-1200

Luminous Intensity Polar Plot



— Vertical Plane Through 77.5-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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CATALOG NUMBER: GAN-AF-09-LED-U-T3R-7060-1200

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10197.0	0.0	10197.0
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	49489.0	0.0	49489.0
	% Fixture	82.9	0.0	82.9
Total	Lumens	59686.0	0.0	59686.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	759.9	1.3
10°-20°	2143.8	3.6
20°-30°	3658.7	6.1
30°-40°	5857.0	9.8
40°-50°	9048.5	15.2
50°-60°	12833.8	21.5
60°-70°	17168.2	28.8
70°-80°	7455.8	12.5
80°-90°	760.3	1.3
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°	59686.0	100.0
0°-180°	59686.0	100.0

Coefficient of Utilization



REPORT NUMBER: P194847

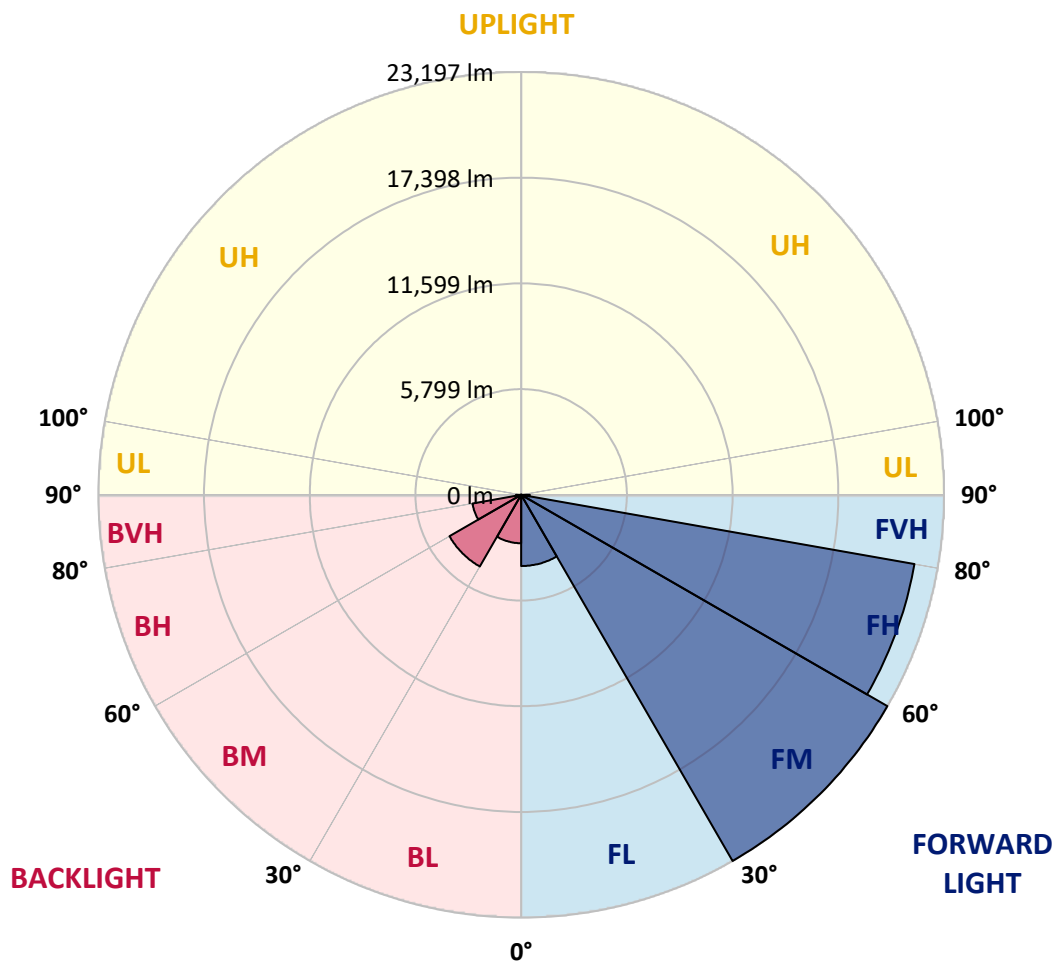
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3906.7	6.5			
FM	(30°-60°)	23197.1	38.9			
FH	(60°-80°)	21908.4	36.7			G5
FVH	(80°-90°)	476.8	0.8			G3/500
BL	(0°-30°)	2655.7	4.4	B4/5000		
BM	(30°-60°)	4542.2	7.6	B3/5000		
BH	(60°-80°)	2715.6	4.5	B4/5000		G4/5000
BVH	(80°-90°)	283.4	0.5			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Short





REPORT NUMBER: P194847

CATALOG NUMBER: GAN-AF-09-LED-U-T3R-7060-1200

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	8505.5	8505.5	8505.5	8505.5	8505.5	8505.5	8505.5	8505.5	8505.5	8505.5	8505.5
2.5°	7524.1	7574.9	7617.2	7656.7	7735.6	7865.4	8014.8	8136.1	8310.9	8344.8	8437.9
5°	6833.2	6833.2	6867.0	6926.3	7033.4	7228.0	7431.1	7701.8	8082.5	8172.8	8420.9
7.5°	6497.6	6500.4	6520.2	6570.9	6664.0	6841.7	7064.4	7383.1	7899.2	8048.7	8471.7
10°	6621.7	6593.5	6551.2	6525.8	6539.9	6644.2	6855.8	7211.1	7786.4	7978.2	8584.5
12.5°	7315.4	7261.9	7115.2	6920.6	6734.5	6658.3	6782.4	7129.3	7738.5	7961.3	8734.0
15°	8449.1	8426.6	8153.0	7749.7	7298.5	6920.6	6836.0	7098.3	7744.1	7981.0	8911.6
17.5°	9870.5	9839.5	9478.5	8891.9	8155.8	7419.8	7025.0	7123.7	7763.8	8014.8	9083.7
20°	11305.9	11210.1	10820.9	10121.5	9176.7	8099.4	7338.0	7188.5	7789.2	8051.5	9264.2
22.5°	12377.6	12298.6	11948.9	11269.3	10180.7	8886.3	7758.2	7301.3	7871.0	8158.7	9486.9
25°	13319.5	13325.2	12978.3	12321.2	11196.0	9721.0	8299.7	7603.1	8079.7	8378.6	9791.5
27.5°	14484.2	14416.5	14092.2	13440.8	12199.9	10564.2	8953.9	8017.7	8389.9	8691.7	10192.0
30°	15877.4	15829.4	15454.4	14715.5	13313.9	11469.5	9701.3	8499.9	8790.4	9103.4	10716.5
32.5°	17515.9	17493.3	17104.1	16153.8	14599.9	12535.5	10578.3	9137.2	9388.2	9712.6	11469.5
35°	19439.2	19442.0	18982.4	17840.2	16007.1	13776.4	11573.8	9957.9	10115.8	10454.3	12366.3
37.5°	20623.7	20767.5	20595.5	19430.8	17600.5	15163.9	12865.5	11046.5	10945.0	11286.2	13328.0
40°	20877.5	21052.3	21596.6	21004.4	19382.8	16692.4	14010.4	12092.8	11965.8	12383.2	14566.0
42.5°	20522.2	20764.7	21915.3	22332.7	21275.1	18576.3	15550.2	13646.7	13485.9	14047.1	16105.8
45°	20310.6	20491.1	21822.2	23023.6	22916.4	20705.5	17510.2	15598.2	15539.0	16275.0	17882.5
47.5°	19944.0	20107.6	21387.9	23184.4	23880.9	22657.0	19865.1	17984.0	18099.7	19064.1	19887.6
50°	20141.4	20209.1	20902.9	22775.4	24160.1	24086.8	22496.2	20747.8	21142.6	22346.8	22157.8
52.5°	20113.2	20288.1	20846.5	22104.2	24196.8	24969.5	25088.0	23830.2	24662.1	26044.0	24676.2
55°	16260.9	16582.4	20183.7	21935.0	24326.5	25835.3	27394.8	27079.0	28630.0	30240.3	27518.9
57.5°	15527.7	15730.7	17727.4	22290.4	25014.6	27487.9	29961.2	30654.9	33249.4	35119.2	30982.0
60°	15383.9	15634.8	17702.0	22724.7	26410.6	30181.1	33765.5	34983.8	38870.0	40917.4	34997.9
62.5°	14935.5	15206.2	17535.6	22668.3	28393.2	33906.5	38635.9	39586.3	44200.0	46191.1	38356.7
65°	13514.1	13767.9	16179.1	21757.4	29729.9	37882.9	44400.3	43805.2	48407.7	49905.2	40031.9
66°	12541.2	12789.3	15110.3	20685.7	29419.7	39011.0	46442.0	45110.9	49349.6	50522.8	39704.7
67.5°	10761.6	10956.2	13034.7	18285.8	27769.9	39326.8	48159.5	46092.3	49448.3	49862.9	37835.0
70°	6799.4	6855.8	8471.7	12622.9	21021.3	34106.8	45545.2	43655.7	45370.4	44248.0	31718.1
72.5°	2949.9	2930.1	4066.6	6421.5	11901.0	22885.4	36842.3	36021.6	35590.2	33029.5	22203.0
75°	1641.3	1663.9	2112.3	2980.9	4836.5	11241.1	24100.9	23063.1	19473.1	16616.3	10067.9
77.5°	1317.0	1348.0	1751.3	2115.1	2171.5	3920.0	11277.7	9176.7	5524.7	4433.3	2797.6
80°	1040.6	1097.0	1528.5	1647.0	1463.7	1615.9	3643.6	2913.2	2185.6	2005.1	1449.6
82.5°	823.5	863.0	1311.4	1246.5	1023.7	1088.6	1745.7	1700.5	1421.3	1294.4	837.6
85°	592.2	665.6	1077.3	939.1	671.2	733.2	1159.1	1111.1	815.0	665.6	369.4
87.5°	242.5	315.9	761.4	623.3	375.1	341.2	578.1	544.3	386.4	282.0	183.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P194847

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8505.5	8505.5	8505.5	8505.5	8505.5	8505.5	8505.5	8505.5	8505.5	8505.5	8505.5
2.5°	8497.1	8564.8	8652.2	8705.8	8734.0	8753.7	8784.7	8781.9	8790.4	8793.2	8804.5
5°	8553.5	8666.3	8793.2	8827.0	8827.0	8796.0	8765.0	8714.2	8694.5	8688.8	8694.5
7.5°	8700.1	8824.2	8934.2	8894.7	8810.1	8686.0	8525.3	8384.3	8308.1	8282.7	8277.1
10°	8886.3	9035.7	9080.8	8931.4	8683.2	8384.3	8065.6	7834.3	7701.8	7665.1	7653.9
12.5°	9111.9	9252.9	9190.8	8875.0	8415.3	7933.1	7493.1	7123.7	6847.3	6759.9	6754.2
15°	9360.0	9470.0	9252.9	8700.1	8014.8	7304.2	6520.2	5882.8	5538.8	5428.8	5420.3
17.5°	9591.3	9647.7	9216.2	8395.6	7425.4	6274.8	5234.2	4743.5	4625.0	4653.2	4658.9
20°	9788.7	9788.7	9092.1	7958.4	6497.6	4918.3	4261.2	4252.8	4337.4	4422.0	4438.9
22.5°	10005.9	9876.1	8875.0	7340.8	5183.4	4024.3	3928.5	4007.4	4103.3	4196.4	4210.5
25°	10273.8	9946.6	8573.2	6404.5	4075.1	3654.9	3691.6	3756.4	3804.4	3863.6	3872.1
27.5°	10572.7	10036.9	8175.6	5115.7	3536.5	3423.6	3451.8	3474.4	3468.8	3491.3	3497.0
30°	10930.9	10141.2	7631.3	3999.0	3313.7	3226.2	3175.5	3155.7	3155.7	3192.4	3206.5
32.5°	11410.3	10296.3	6850.1	3426.5	3206.5	3085.2	2921.7	2848.3	2876.5	3000.6	3028.8
35°	11937.6	10462.7	5792.6	3231.9	3183.9	3020.4	2766.6	2631.2	2634.0	2749.6	2786.3
37.5°	12513.0	10674.2	4633.5	3195.2	3234.7	3023.2	2684.8	2498.6	2422.5	2422.5	2436.6
40°	13249.0	10891.4	3750.8	3220.6	3341.9	3057.0	2642.5	2394.3	2180.0	2185.6	2196.9
42.5°	14207.9	11077.5	3277.0	3274.2	3471.6	3102.2	2639.6	2256.1	2070.0	2196.9	2312.5
45°	15273.9	11170.6	3068.3	3322.1	3575.9	3130.4	2594.5	2233.5	2084.1	2462.0	2682.0
47.5°	16500.6	11117.0	2952.7	3339.0	3601.3	3130.4	2543.8	2287.1	2182.8	2851.2	3107.8
50°	17845.8	10961.9	2839.9	3305.2	3592.9	3124.7	2591.7	2340.7	2219.4	2918.8	3096.5
52.5°	19427.9	10832.2	2721.4	3231.9	3533.6	3093.7	2648.1	2318.2	2103.8	2653.8	2777.8
55°	21232.8	10868.8	2588.9	3127.5	3440.6	3034.5	2628.4	2227.9	1982.6	2337.9	2414.0
57.5°	23539.7	11305.9	2431.0	2995.0	3313.7	2935.8	2557.9	2185.6	1945.9	2120.7	2165.9
60°	26114.5	12067.4	2233.5	2862.4	3155.7	2777.8	2504.3	2205.3	1962.8	2103.8	2126.4
62.5°	28004.0	12510.1	2064.3	2667.9	2941.4	2603.0	2436.6	2230.7	2007.9	2163.0	2157.4
65°	28517.2	11782.5	1852.8	2383.0	2650.9	2419.7	2352.0	2258.9	2027.7	2211.0	2185.6
66°	27798.1	10998.5	1759.8	2250.5	2504.3	2329.4	2309.7	2256.1	2019.2	2216.6	2174.3
67.5°	26052.4	9391.1	1599.0	2055.9	2270.2	2194.1	2242.0	2230.7	1996.7	2211.0	2151.8
70°	21246.9	6407.4	1367.8	1711.8	1889.5	1931.8	2112.3	2140.5	1923.3	2112.3	1982.6
72.5°	14845.2	3903.1	1209.8	1328.3	1528.5	1647.0	1934.6	2016.4	1824.6	1844.4	1720.3
75°	7174.4	2072.8	1097.0	1029.4	1187.3	1376.2	1720.3	1847.2	1669.5	1542.6	1497.5
77.5°	2236.4	1266.2	930.6	829.1	930.6	1111.1	1438.3	1618.8	1486.2	1291.6	1274.7
80°	1201.4	930.6	716.3	665.6	736.1	871.4	1130.9	1350.8	1277.5	1159.1	1035.0
82.5°	792.5	603.5	530.2	516.1	561.2	665.6	840.4	1119.6	1119.6	992.7	722.0
85°	408.9	369.4	363.8	363.8	392.0	442.8	572.5	863.0	919.4	524.5	434.3
87.5°	203.0	211.5	197.4	205.9	220.0	217.2	273.6	434.3	518.9	318.7	265.1
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)