

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: P191555

Luminaire Tested: **GAN-AF-07-LED-U-T4W-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191555
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24147)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-07-LED-U-T4W-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28178.2 lumens
Efficiency: N/A
Efficacy: 124.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G4

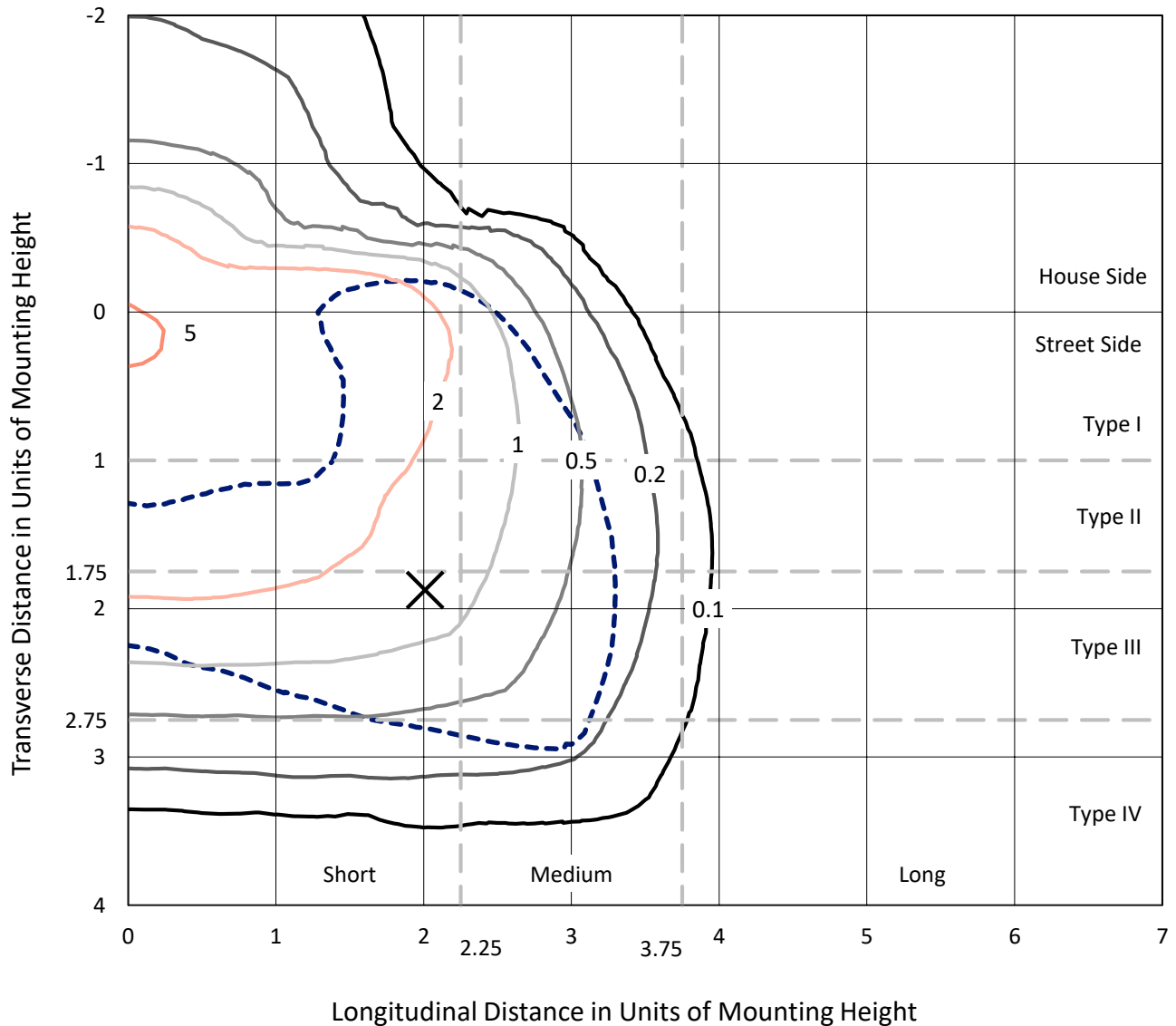
Input Watts (W): 226
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

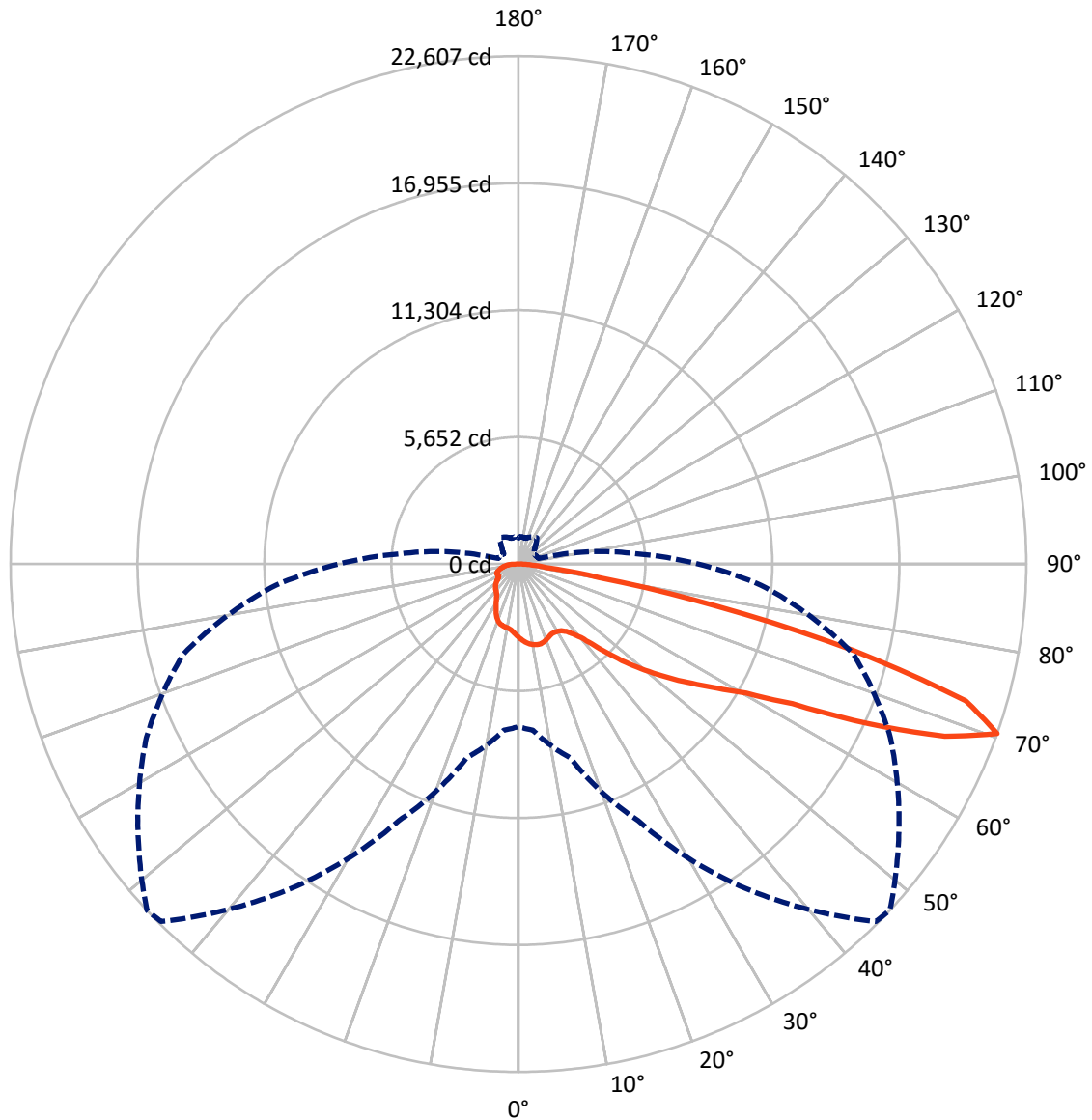
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5878.5	0.0	5878.5
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	22299.7	0.0	22299.7
	% Fixture	79.1	0.0	79.1
Total	Lumens	28178.2	0.0	28178.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	313.3	1.1
10°-20°	919.1	3.3
20°-30°	1357.2	4.8
30°-40°	1972.7	7.0
40°-50°	3550.2	12.6
50°-60°	6150.3	21.8
60°-70°	8778.3	31.2
70°-80°	4506.3	16.0
80°-90°	630.9	2.2
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°	28178.2	100.0
0°-180°	28178.2	100.0



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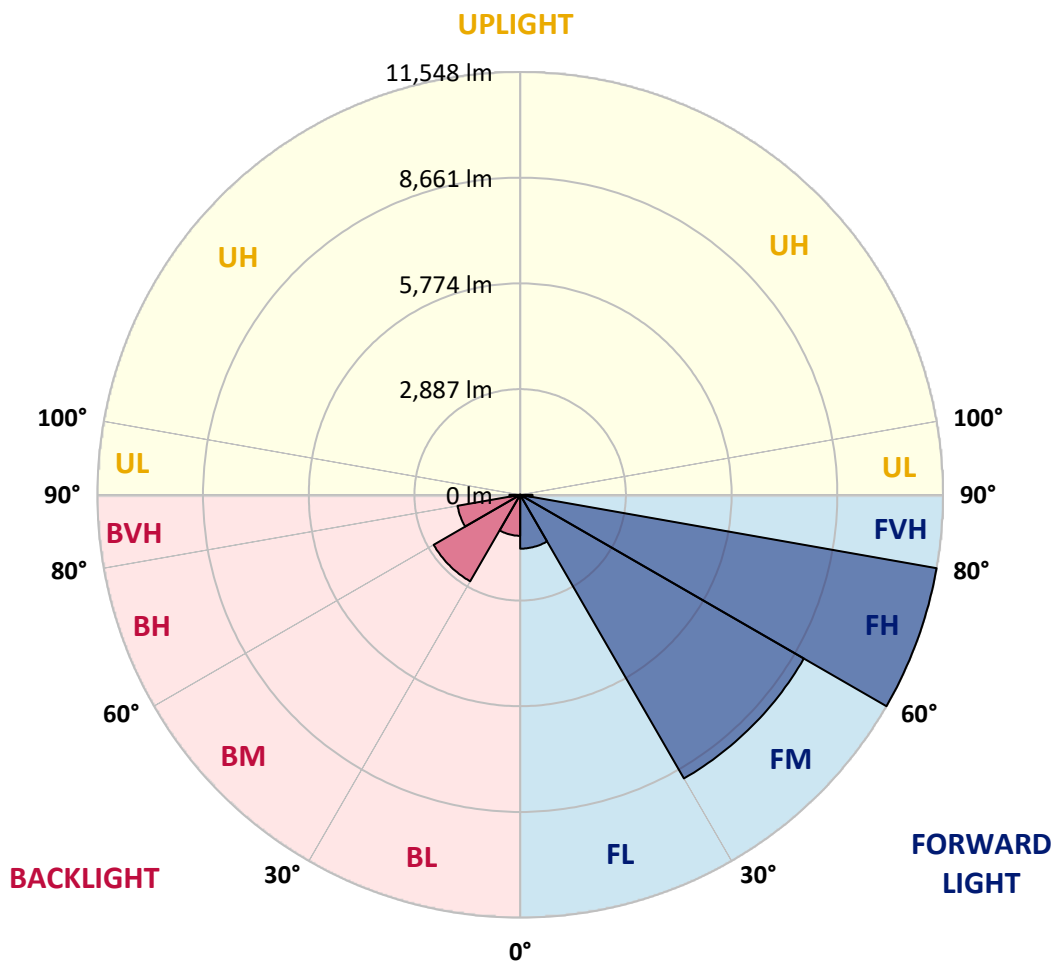
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1470.3	5.2			
FM	(30°-60°)	8944.6	31.7			
FH	(60°-80°)	11548.2	41.0			G4/12000
FVH	(80°-90°)	336.7	1.2			G3/500
BL	(0°-30°)	1119.3	4.0	B3/2500		
BM	(30°-60°)	2728.6	9.7	B3/5000		
BH	(60°-80°)	1736.4	6.2	B3/2500		G3/2500
BVH	(80°-90°)	294.2	1.0			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	3269.6	3269.6	3269.6	3269.6	3269.6	3269.6	3269.6	3269.6	3269.6	3269.6	3269.6
2.5°	3461.5	3454.6	3451.8	3446.4	3439.6	3405.3	3398.4	3373.7	3339.4	3303.8	3266.8
5°	3689.1	3687.6	3672.6	3645.2	3601.3	3525.9	3508.1	3447.8	3366.8	3288.8	3210.6
7.5°	3889.2	3876.9	3848.0	3793.2	3716.5	3613.7	3588.9	3505.3	3394.3	3287.4	3181.8
10°	4035.8	4029.0	3966.0	3890.6	3790.4	3676.7	3647.9	3554.7	3432.7	3297.0	3165.3
12.5°	4119.5	4105.8	4033.1	3942.7	3823.4	3712.4	3683.5	3588.9	3451.8	3297.0	3142.1
15°	4114.0	4104.4	4031.8	3933.0	3812.4	3715.1	3689.1	3594.4	3447.8	3283.3	3111.9
17.5°	4004.3	4008.4	3946.7	3849.5	3750.8	3676.7	3653.4	3565.7	3420.3	3255.8	3076.2
20°	3812.4	3831.6	3790.4	3704.1	3649.3	3598.5	3583.5	3509.4	3377.9	3216.1	3037.9
22.5°	3620.5	3638.3	3621.9	3549.2	3540.9	3510.9	3502.6	3449.1	3340.9	3191.4	3014.5
25°	3479.3	3495.7	3493.0	3430.0	3454.6	3453.3	3446.4	3420.3	3332.6	3191.4	3018.7
27.5°	3440.9	3446.4	3440.9	3383.3	3417.6	3445.0	3439.6	3435.4	3357.3	3231.2	3070.8
30°	3572.6	3564.3	3521.8	3405.3	3436.8	3475.2	3469.7	3472.4	3431.3	3335.3	3187.3
32.5°	4097.5	4060.5	3926.2	3598.5	3515.0	3535.5	3538.3	3583.5	3590.4	3495.7	3368.3
35°	4883.1	4841.9	4667.8	4116.8	3757.6	3686.3	3686.3	3754.8	3796.0	3726.1	3649.3
37.5°	5715.2	5669.9	5576.7	4835.1	4267.5	3948.2	3941.3	3989.3	4048.2	4064.7	4083.8
40°	6661.1	6613.2	6639.2	5641.2	4979.0	4401.9	4304.6	4270.3	4429.3	4534.8	4688.4
42.5°	7696.2	7674.2	7683.8	6539.1	5789.2	5080.5	4942.0	4765.2	4957.1	5144.9	5467.1
45°	8654.4	8673.6	8664.0	7500.1	6691.2	5908.5	5761.8	5419.1	5606.9	5929.0	6454.1
47.5°	9493.4	9413.8	9537.2	8550.1	7701.6	6835.3	6654.3	6195.0	6385.6	6783.1	7671.4
50°	10511.9	10500.9	10319.9	9951.3	8923.1	7766.0	7528.9	6997.0	7293.1	7845.5	9205.4
52.5°	11582.6	11383.8	11217.9	11041.1	10218.6	8720.1	8429.5	7796.2	8359.7	9054.6	11075.4
55°	11801.9	11712.8	11918.4	12215.9	11467.4	9711.3	9372.7	8798.3	9560.5	10436.6	13231.8
57.5°	12270.7	12269.4	12694.3	13224.9	12753.3	10762.8	10421.4	10008.8	10910.8	12019.9	15521.1
60°	12587.4	12676.5	13466.1	14495.7	14015.9	11977.4	11663.5	11405.7	12446.2	13789.7	17654.2
62.5°	12753.3	12873.9	13951.4	15011.1	15800.8	13999.4	13685.4	13314.0	14477.8	15730.8	18901.7
65°	12063.8	12300.9	13876.0	15456.7	17363.6	17277.2	17136.0	16483.4	17018.1	17264.9	18450.7
67.5°	10155.4	10398.1	12232.3	15041.3	18479.5	20438.5	20468.6	19354.1	18580.9	17396.5	15512.8
70°	7235.5	7426.0	8943.7	12610.7	17629.5	22504.4	22607.2	20677.0	18269.7	15427.8	10838.2
72.5°	3435.4	3552.0	4988.6	8207.4	13989.9	20619.4	20818.2	18988.0	15534.8	11422.2	5912.7
75°	1262.6	1298.2	1686.2	3491.6	8114.3	15205.8	15440.2	13611.5	10298.0	5686.4	2252.3
77.5°	756.7	780.0	945.9	1473.7	3191.4	8691.4	9038.2	7402.8	4500.6	2116.7	1107.7
80°	529.2	545.6	678.6	917.1	1507.9	3312.0	3620.5	3021.4	1793.1	1339.3	806.1
82.5°	357.8	366.0	477.1	619.6	1002.1	1183.0	1276.3	1343.4	1209.1	996.7	511.4
85°	234.5	242.6	323.6	408.6	637.5	611.4	625.1	791.0	882.8	677.2	283.8
87.5°	134.3	139.8	194.7	218.0	312.5	259.1	261.9	416.8	564.8	456.5	172.8
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°	3269.6	3269.6	3269.6	3269.6	3269.6	3269.6	3269.6	3269.6	3269.6	3269.6	3269.6
2.5°	3257.2	3239.4	3199.6	3174.9	3151.6	3146.2	3136.6	3135.2	3133.8	3133.8	3129.7
5°	3184.5	3154.4	3092.7	3058.4	3029.7	3026.9	3025.6	3032.4	3035.1	3037.9	3033.8
7.5°	3137.9	3096.8	3020.1	2970.6	2936.4	2928.2	2941.9	2973.4	2994.0	3002.3	2998.1
10°	3109.2	3058.4	2969.3	2915.8	2887.1	2883.0	2900.8	2937.8	2980.3	2996.7	2995.4
12.5°	3076.2	3018.7	2924.1	2867.8	2851.5	2859.7	2883.0	2917.3	2961.1	2987.1	2988.6
15°	3043.4	2976.2	2878.9	2829.5	2822.6	2833.6	2855.6	2881.6	2915.8	2941.9	2944.7
17.5°	3003.6	2933.7	2836.3	2785.6	2780.2	2785.6	2787.0	2800.7	2822.6	2847.3	2854.1
20°	2961.1	2889.8	2788.4	2737.6	2713.0	2691.1	2666.3	2669.1	2675.9	2700.6	2706.1
22.5°	2931.0	2859.7	2751.3	2681.5	2615.7	2549.8	2500.5	2493.6	2496.4	2517.0	2523.8
25°	2933.7	2858.3	2741.7	2621.1	2477.2	2371.6	2305.8	2294.9	2293.5	2308.6	2318.1
27.5°	2987.1	2911.7	2777.4	2559.4	2326.4	2170.1	2100.2	2091.9	2081.0	2085.1	2096.0
30°	3106.4	3036.5	2863.8	2496.4	2163.2	1972.7	1900.0	1891.8	1876.7	1869.9	1878.1
32.5°	3301.1	3243.5	2989.9	2436.1	2000.1	1804.1	1730.0	1712.2	1702.6	1694.4	1701.3
35°	3624.6	3600.0	3158.5	2370.3	1856.1	1673.9	1606.6	1579.2	1565.5	1580.7	1591.6
37.5°	4131.8	4145.5	3379.2	2267.5	1745.2	1587.5	1531.3	1499.7	1479.2	1491.6	1503.8
40°	4850.2	4859.7	3623.2	2122.1	1649.2	1536.8	1476.4	1447.7	1418.8	1396.9	1395.5
42.5°	5793.4	5696.0	3863.2	1964.5	1538.1	1505.3	1438.1	1402.4	1358.6	1298.2	1285.8
45°	6912.0	6570.6	4045.5	1783.5	1413.4	1466.8	1395.5	1346.2	1277.7	1211.9	1205.0
47.5°	8200.6	7509.7	4134.6	1595.7	1296.9	1410.6	1343.4	1265.3	1179.0	1146.0	1141.9
50°	9774.4	8624.2	4177.1	1413.4	1195.4	1336.6	1268.0	1176.2	1103.6	1096.7	1092.6
52.5°	11566.1	9965.0	4190.8	1264.0	1111.7	1240.6	1206.4	1117.3	1059.7	1065.2	1065.2
55°	13441.5	11349.5	4004.3	1155.6	1035.0	1141.9	1165.2	1093.9	1046.0	1068.0	1076.1
57.5°	15163.3	12576.5	3417.6	1072.1	962.4	1066.5	1150.2	1115.9	1083.0	1172.1	1177.6
60°	16484.9	13301.6	2552.6	996.7	908.9	1040.5	1189.9	1199.5	1207.7	1420.3	1449.0
62.5°	16761.8	13060.4	1754.8	937.6	884.2	1062.4	1262.6	1264.0	1254.3	1402.4	1420.3
65°	15491.0	11534.6	1276.3	904.8	863.7	1102.2	1324.3	1295.5	1232.5	1344.9	1311.9
67.5°	12302.3	8690.0	1062.4	880.1	833.5	1099.5	1390.1	1324.3	1220.1	1317.5	1264.0
70°	7985.4	5254.6	945.9	859.6	797.9	1047.4	1428.4	1321.6	1184.5	1225.6	1162.5
72.5°	3896.0	2349.7	867.8	829.4	760.9	974.7	1427.1	1296.9	1147.4	1144.7	1110.4
75°	1524.4	1076.1	796.5	784.2	697.8	892.4	1388.7	1261.2	1103.6	1059.7	1047.4
77.5°	892.4	767.7	706.0	717.0	622.4	810.2	1332.5	1199.5	1043.2	991.1	977.4
80°	649.8	574.4	601.8	619.6	531.9	727.9	1257.1	1124.1	976.1	1002.1	983.0
82.5°	416.8	370.1	488.0	505.8	442.8	644.4	1174.9	1044.6	881.5	800.6	781.4
85°	212.5	234.5	363.2	385.2	341.4	529.2	1074.8	939.1	774.6	666.2	677.2
87.5°	119.3	160.4	231.7	259.1	241.3	407.1	871.9	774.6	632.0	514.0	452.3
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)