

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: P193295

Luminaire Tested: **GAN-AF-07-LED-U-T4W-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193295
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-7030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 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: 26641.8 lumens
Efficiency: N/A
Efficacy: 117.9 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

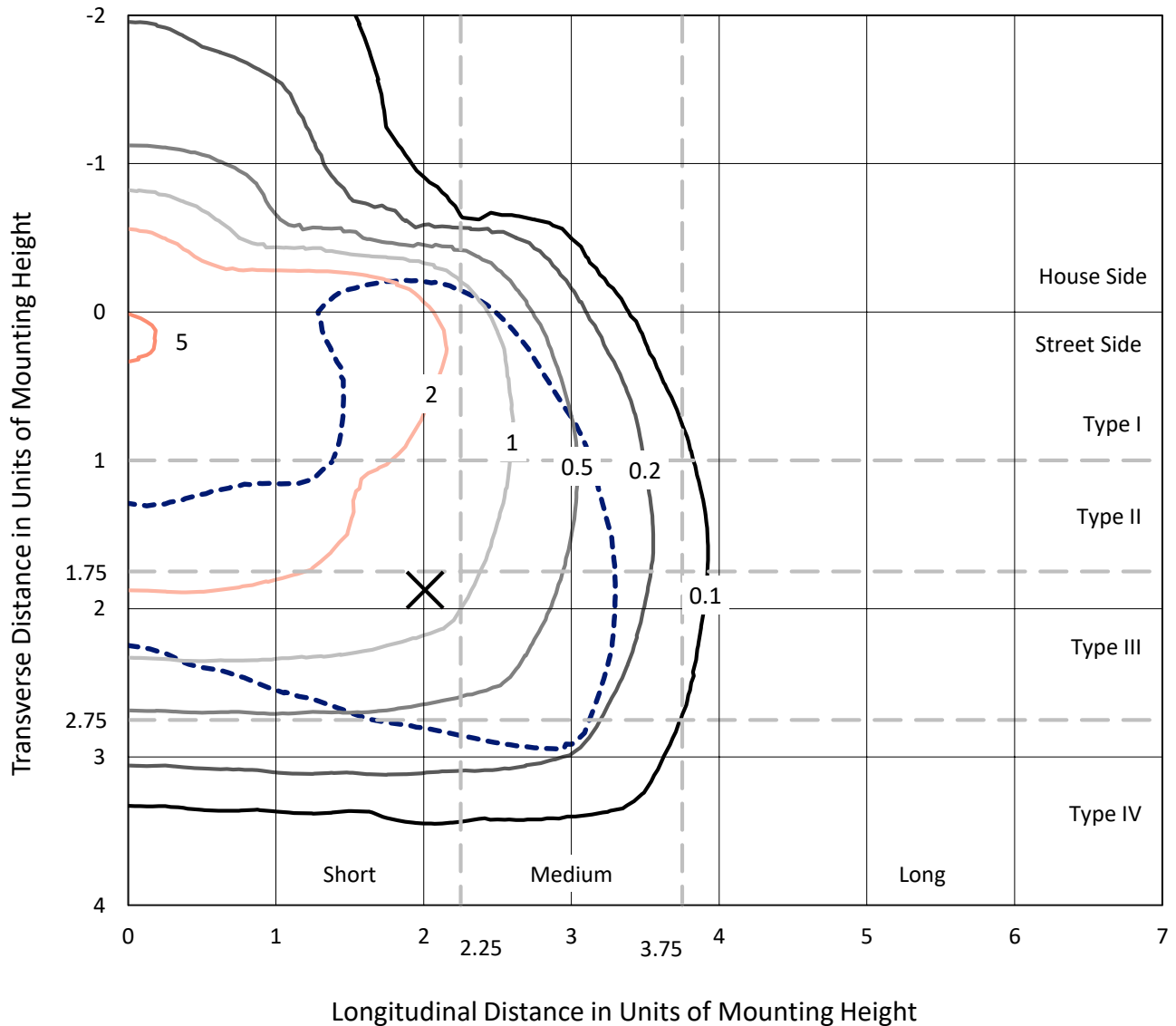


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

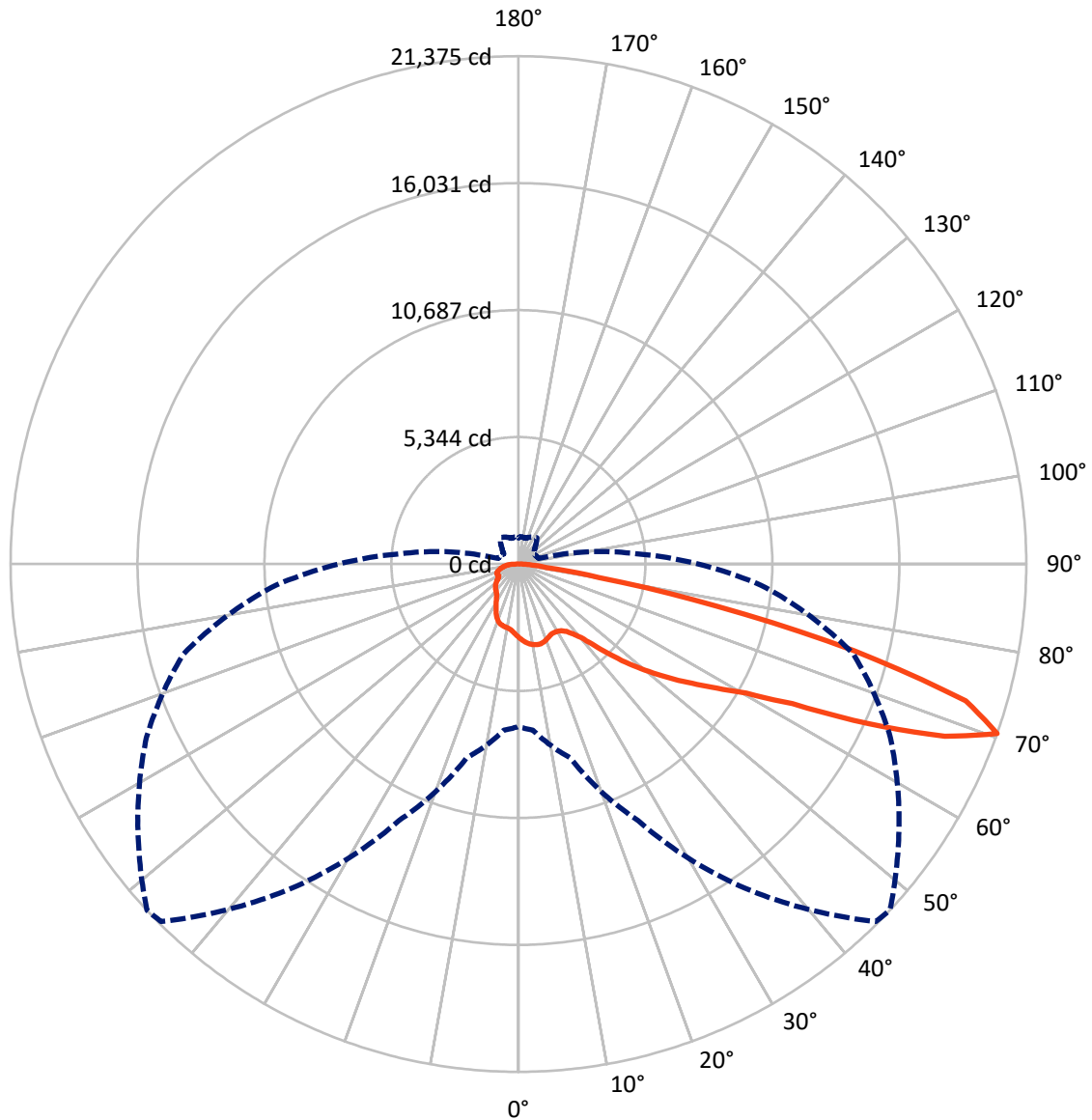


Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
 Type IV - Short - Semi-Cutoff

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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	5558.0	0.0	5558.0
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	21083.8	0.0	21083.8
	% Fixture	79.1	0.0	79.1
Total	Lumens	26641.8	0.0	26641.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	296.2	1.1
10°-20°	869.0	3.3
20°-30°	1283.2	4.8
30°-40°	1865.1	7.0
40°-50°	3356.6	12.6
50°-60°	5815.0	21.8
60°-70°	8299.6	31.2
70°-80°	4260.6	16.0
80°-90°	596.5	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°	26641.8	100.0
0°-180°	26641.8	100.0



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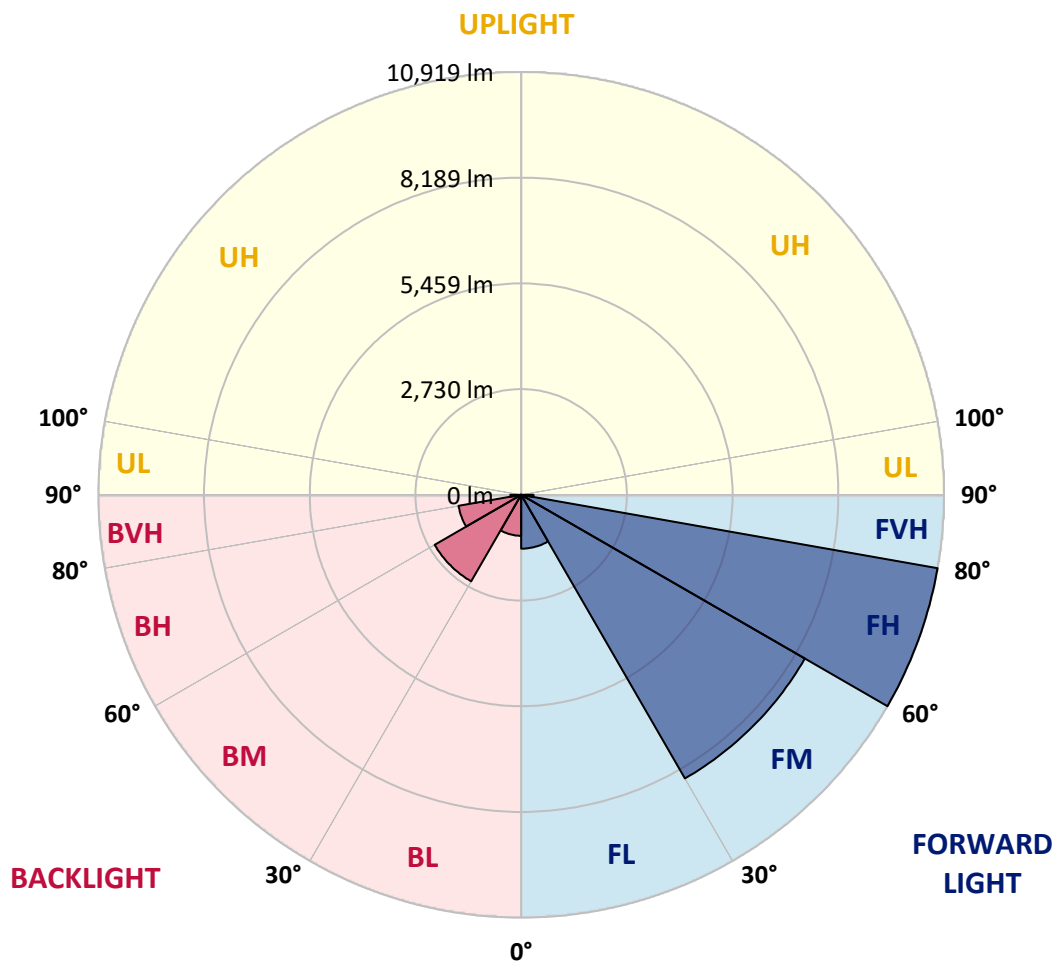
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1390.1	5.2			
FM	(30°-60°)	8456.8	31.7			
FH	(60°-80°)	10918.5	41.0			G4/12000
FVH	(80°-90°)	318.3	1.2			G3/500
BL	(0°-30°)	1058.3	4.0	B3/2500		
BM	(30°-60°)	2579.8	9.7	B3/5000		
BH	(60°-80°)	1641.7	6.2	B3/2500		G3/2500
BVH	(80°-90°)	278.2	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°	3091.3	3091.3	3091.3	3091.3	3091.3	3091.3	3091.3	3091.3	3091.3	3091.3	3091.3
2.5°	3272.8	3266.3	3263.7	3258.4	3252.0	3219.6	3213.1	3189.9	3157.4	3123.7	3088.6
5°	3487.9	3486.6	3472.4	3446.4	3404.9	3333.6	3316.8	3259.7	3183.3	3109.4	3035.5
7.5°	3677.1	3665.4	3638.3	3586.4	3513.8	3416.6	3393.3	3314.2	3209.3	3108.1	3008.4
10°	3815.8	3809.4	3749.7	3678.4	3583.8	3476.2	3449.0	3361.0	3245.5	3117.1	2992.7
12.5°	3894.9	3881.9	3813.2	3727.7	3615.0	3510.0	3482.7	3393.3	3263.7	3117.1	2970.8
15°	3889.7	3880.7	3811.9	3718.6	3604.6	3512.4	3487.9	3398.5	3259.7	3104.3	2942.3
17.5°	3786.1	3789.8	3731.5	3639.5	3546.2	3476.2	3454.2	3371.2	3233.8	3078.3	2908.5
20°	3604.6	3622.7	3583.8	3502.2	3450.3	3402.4	3388.1	3318.1	3193.6	3040.6	2872.2
22.5°	3423.1	3439.9	3424.4	3355.7	3347.9	3319.4	3311.6	3261.1	3158.6	3017.4	2850.2
25°	3289.6	3305.1	3302.6	3243.0	3266.3	3265.0	3258.4	3233.8	3150.9	3017.4	2854.1
27.5°	3253.3	3258.4	3253.3	3198.9	3231.3	3257.1	3252.0	3248.1	3174.2	3055.0	2903.3
30°	3377.7	3370.0	3329.7	3219.6	3249.4	3285.7	3280.5	3283.1	3244.2	3153.4	3013.5
32.5°	3874.2	3839.2	3712.1	3402.4	3323.2	3342.7	3345.3	3388.1	3394.5	3305.1	3184.6
35°	4616.9	4578.0	4413.3	3892.3	3552.7	3485.3	3485.3	3550.1	3588.9	3522.8	3450.3
37.5°	5403.5	5360.8	5272.7	4571.4	4034.8	3732.9	3726.4	3771.7	3827.5	3843.0	3861.2
40°	6297.9	6252.6	6277.2	5333.6	4707.6	4161.9	4069.9	4037.4	4187.8	4287.6	4432.7
42.5°	7276.4	7255.8	7264.8	6182.6	5473.6	4803.5	4672.6	4505.3	4686.7	4864.3	5168.9
45°	8182.5	8200.7	8191.6	7091.2	6326.4	5586.3	5447.6	5123.6	5301.2	5605.8	6102.2
47.5°	8975.7	8900.6	9017.1	8084.0	7281.7	6462.4	6291.4	5857.2	6037.3	6413.3	7253.1
50°	9938.8	9928.4	9757.3	9408.7	8436.6	7342.6	7118.4	6615.4	6895.5	7417.7	8703.5
52.5°	10951.0	10763.1	10606.3	10439.0	9661.4	8244.7	7969.9	7371.0	7903.9	8560.9	10471.4
55°	11158.4	11074.2	11268.6	11549.8	10842.2	9181.8	8861.7	8318.6	9039.2	9867.4	12510.3
57.5°	11601.7	11600.4	12002.2	12503.7	12058.0	10176.0	9853.2	9463.1	10315.9	11364.5	14674.8
60°	11901.1	11985.3	12731.9	13705.3	13251.6	11324.2	11027.5	10783.8	11767.6	13037.8	16691.6
62.5°	12058.0	12172.0	13190.8	14192.7	14939.2	13236.1	12939.2	12588.1	13688.4	14873.1	17871.1
65°	11406.0	11630.2	13119.5	14613.9	16416.9	16335.2	16201.6	15584.7	16090.2	16323.5	17444.7
67.5°	9601.7	9831.1	11565.4	14221.1	17471.8	19324.0	19352.5	18298.8	17567.8	16447.9	14667.1
70°	6840.9	7021.1	8456.0	11923.1	16668.3	21277.2	21374.5	19549.5	17273.6	14586.6	10247.2
72.5°	3248.1	3358.3	4716.6	7759.9	13227.0	19495.1	19683.0	17952.7	14687.7	10799.4	5590.2
75°	1193.7	1227.4	1594.2	3301.3	7671.8	14376.7	14598.3	12869.3	9736.5	5376.3	2129.6
77.5°	715.4	737.5	894.3	1393.4	3017.4	8217.5	8545.3	6999.1	4255.2	2001.2	1047.2
80°	500.3	515.8	641.6	867.1	1425.8	3131.5	3423.1	2856.7	1695.3	1266.4	762.1
82.5°	338.2	346.1	451.0	585.8	947.5	1118.6	1206.7	1270.2	1143.2	942.3	483.5
85°	221.7	229.5	305.9	386.2	602.7	578.1	591.0	747.9	834.7	640.3	268.3
87.5°	127.1	132.2	184.1	206.1	295.5	245.0	247.6	394.0	534.1	431.6	163.4
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°	3091.3	3091.3	3091.3	3091.3	3091.3	3091.3	3091.3	3091.3	3091.3	3091.3	3091.3
2.5°	3079.6	3062.7	3025.2	3001.8	2979.8	2974.6	2965.6	2964.2	2963.0	2963.0	2959.1
5°	3010.9	2982.4	2924.1	2891.6	2864.4	2861.8	2860.5	2867.1	2869.5	2872.2	2868.4
7.5°	2966.8	2927.9	2855.4	2808.7	2776.3	2768.5	2781.5	2811.3	2830.8	2838.5	2834.6
10°	2939.6	2891.6	2807.4	2756.8	2729.7	2725.8	2742.6	2777.6	2817.8	2833.3	2832.0
12.5°	2908.5	2854.1	2764.7	2711.5	2696.0	2703.7	2725.8	2758.1	2799.7	2824.3	2825.6
15°	2877.5	2813.9	2721.8	2675.2	2668.7	2679.1	2699.8	2724.5	2756.8	2781.5	2784.2
17.5°	2839.8	2773.8	2681.7	2633.7	2628.6	2633.7	2635.0	2648.0	2668.7	2692.0	2698.6
20°	2799.7	2732.2	2636.3	2588.4	2565.1	2544.3	2520.9	2523.6	2530.0	2553.4	2558.6
22.5°	2771.2	2703.7	2601.4	2535.3	2473.0	2410.8	2364.2	2357.7	2360.2	2379.6	2386.2
25°	2773.8	2702.4	2592.2	2478.2	2342.1	2242.3	2180.0	2169.8	2168.5	2182.7	2191.7
27.5°	2824.3	2753.0	2625.9	2419.9	2199.5	2051.8	1985.7	1977.9	1967.5	1971.4	1981.8
30°	2937.0	2870.9	2707.7	2360.2	2045.4	1865.2	1796.4	1788.7	1774.4	1768.0	1775.7
32.5°	3121.1	3066.7	2826.9	2303.1	1891.1	1705.7	1635.7	1618.9	1609.8	1602.1	1608.6
35°	3427.0	3403.7	2986.3	2241.0	1754.9	1582.6	1519.0	1493.1	1480.1	1494.4	1504.8
37.5°	3906.6	3919.4	3195.0	2143.7	1650.0	1500.9	1447.8	1417.9	1398.5	1410.2	1421.9
40°	4585.7	4594.8	3425.8	2006.4	1559.2	1452.9	1395.9	1368.7	1341.4	1320.7	1319.5
42.5°	5477.5	5385.4	3652.5	1857.4	1454.2	1423.1	1359.6	1326.0	1284.5	1227.4	1215.7
45°	6535.2	6212.4	3824.8	1686.3	1336.4	1386.8	1319.5	1272.8	1208.0	1145.8	1139.2
47.5°	7753.5	7100.2	3909.2	1508.7	1226.1	1333.7	1270.2	1196.3	1114.7	1083.6	1079.7
50°	9241.4	8154.0	3949.2	1336.4	1130.2	1263.7	1198.9	1112.0	1043.4	1036.9	1033.0
52.5°	10935.4	9421.5	3962.3	1195.1	1051.2	1173.0	1140.5	1056.3	1001.9	1007.1	1007.1
55°	12708.6	10730.7	3786.1	1092.6	978.5	1079.7	1101.7	1034.3	988.9	1009.7	1017.4
57.5°	14336.6	11890.6	3231.3	1013.6	909.9	1008.4	1087.4	1055.0	1024.0	1108.2	1113.4
60°	15586.0	12576.4	2413.4	942.3	859.4	983.8	1125.1	1134.1	1141.9	1342.8	1370.0
62.5°	15847.8	12348.3	1659.1	886.5	836.1	1004.5	1193.7	1195.1	1186.0	1326.0	1342.8
65°	14646.3	10905.6	1206.7	855.5	816.6	1042.2	1252.1	1224.8	1165.2	1271.6	1240.4
67.5°	11631.5	8216.2	1004.5	832.1	788.1	1039.5	1314.3	1252.1	1153.6	1245.5	1195.1
70°	7550.0	4968.1	894.3	812.7	754.3	990.2	1350.6	1249.5	1119.9	1158.7	1099.1
72.5°	3683.5	2221.6	820.4	784.2	719.4	921.6	1349.3	1226.1	1084.8	1082.3	1049.9
75°	1441.3	1017.4	753.1	741.5	659.7	843.8	1313.0	1192.4	1043.4	1001.9	990.2
77.5°	843.8	725.8	667.5	677.9	588.5	766.0	1259.9	1134.1	986.4	937.1	924.2
80°	614.4	543.1	569.0	585.8	502.9	688.3	1188.5	1062.9	922.8	947.5	929.4
82.5°	394.0	349.9	461.4	478.2	418.7	609.2	1110.8	987.7	833.4	756.9	738.8
85°	200.9	221.7	343.5	364.2	322.8	500.3	1016.2	887.8	732.4	629.9	640.3
87.5°	112.7	151.7	219.1	245.0	228.2	384.9	824.4	732.4	597.5	486.1	427.7
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)