

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: P193213

Luminaire Tested: **GAN-AF-05-LED-U-T3R-7030-600-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193213
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-05-LED-U-T3R-7030-600-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19382.6 lumens
Efficiency: N/A
Efficacy: 119.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B2 - U0 - G3

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

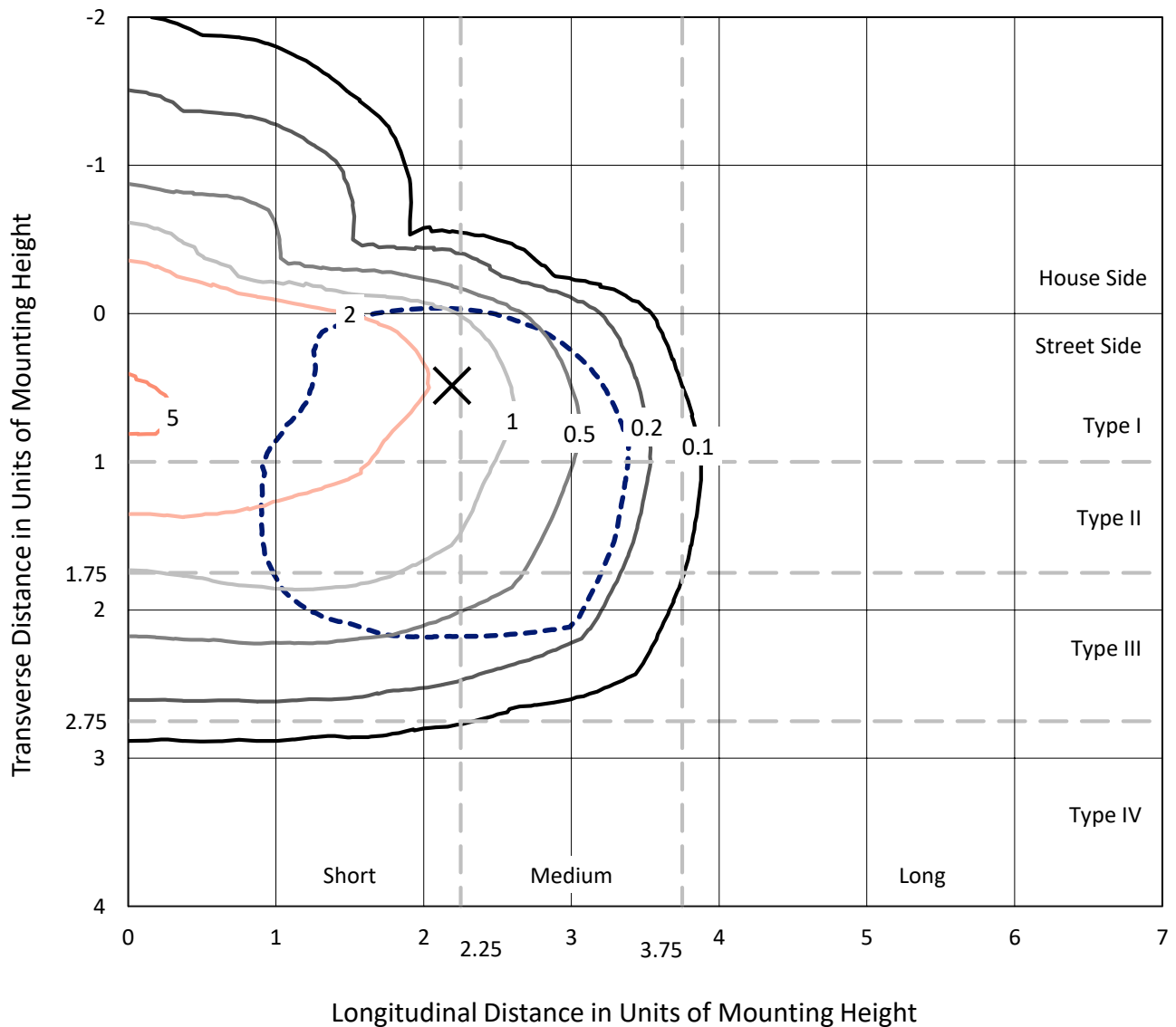


REPORT NUMBER: P193213

CATALOG NUMBER: GAN-AF-05-LED-U-T3R-7030-600-ADJ

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

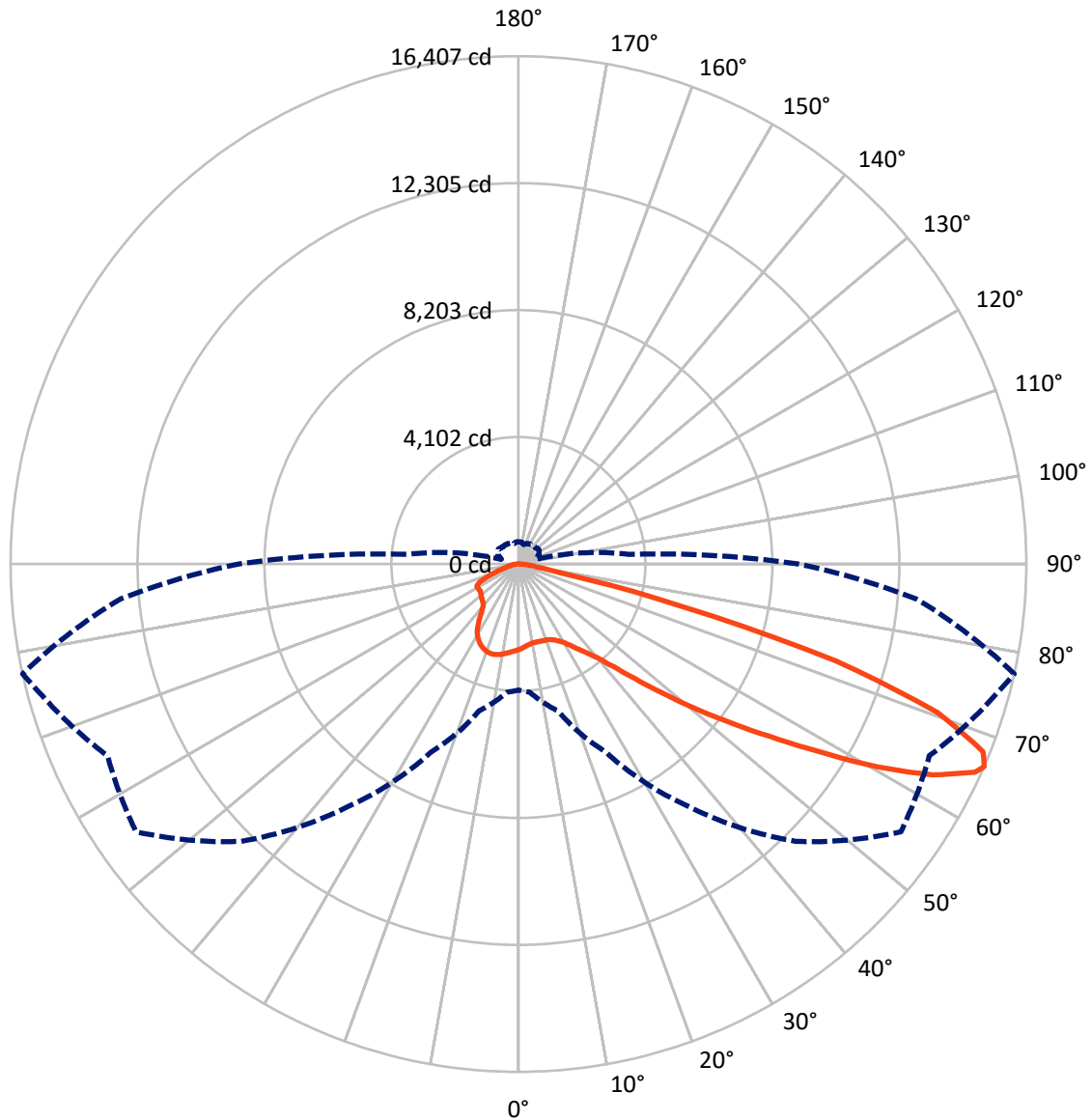


Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type III - Short - Full Cutoff

REPORT NUMBER: P193213

CATALOG NUMBER: GAN-AF-05-LED-U-T3R-7030-600-ADJ

Luminous Intensity Polar Plot



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

REPORT NUMBER: P193213

CATALOG NUMBER: GAN-AF-05-LED-U-T3R-7030-600-ADJ

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3311.4	0.0	3311.4
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	16071.2	0.0	16071.2
	% Fixture	82.9	0.0	82.9
Total	Lumens	19382.6	0.0	19382.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	246.8	1.3
10°-20°	696.2	3.6
20°-30°	1188.1	6.1
30°-40°	1902.0	9.8
40°-50°	2938.4	15.2
50°-60°	4167.7	21.5
60°-70°	5575.3	28.8
70°-80°	2421.2	12.5
80°-90°	246.9	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°	19382.6	100.0
0°-180°	19382.6	100.0



REPORT NUMBER: P193213

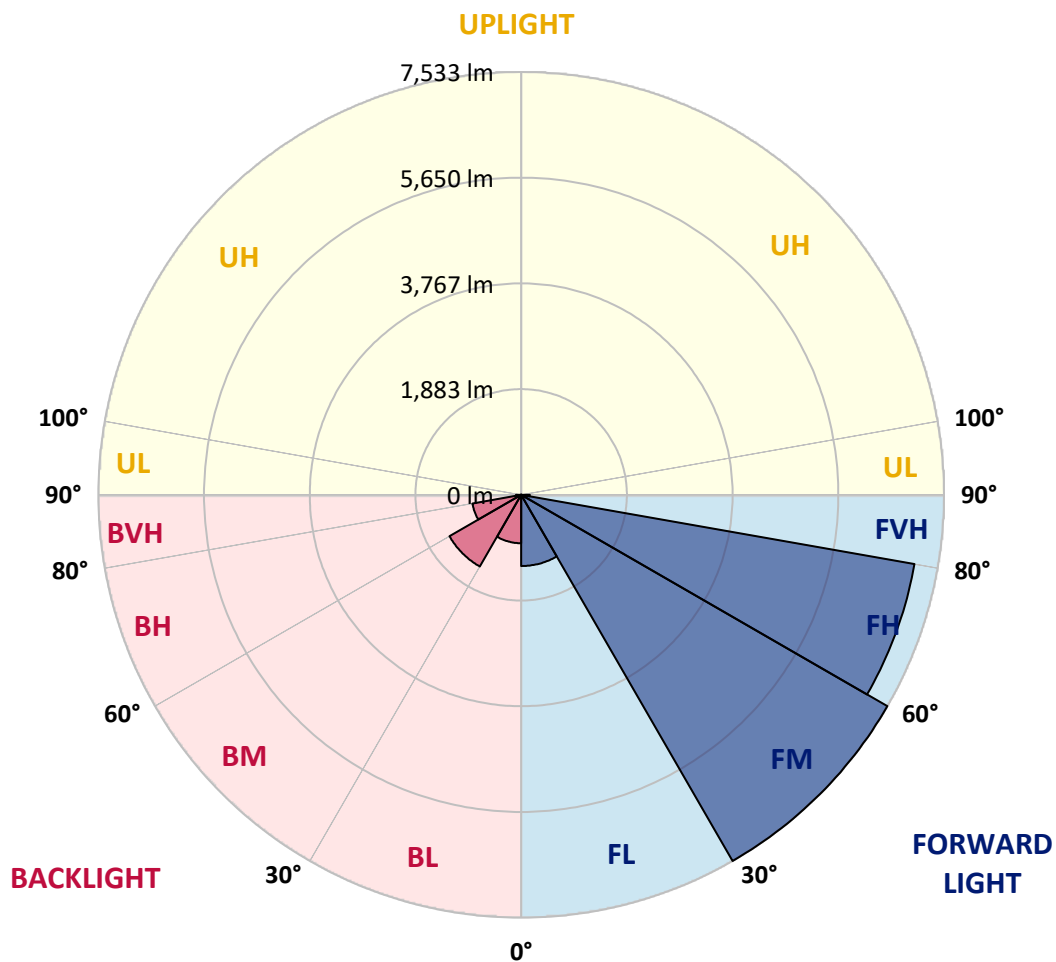
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1268.7	6.5			
FM (30°-60°)	7533.1	38.9			
FH (60°-80°)	7114.6	36.7			G3/7500
FVH (80°-90°)	154.8	0.8			G2/225
BL (0°-30°)	862.4	4.4	B2/1000		
BM (30°-60°)	1475.0	7.6	B2/2500		
BH (60°-80°)	881.9	4.5	B2/1000		G2/1000
BVH (80°-90°)	92.0	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Short





REPORT NUMBER: P193213

CATALOG NUMBER: GAN-AF-05-LED-U-T3R-7030-600-ADJ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	2762.1	2762.1	2762.1	2762.1	2762.1	2762.1	2762.1	2762.1	2762.1	2762.1	2762.1
2.5°	2443.4	2459.9	2473.6	2486.4	2512.1	2554.3	2602.8	2642.1	2698.9	2709.9	2740.1
5°	2219.0	2219.0	2230.0	2249.2	2284.1	2347.2	2413.2	2501.1	2624.7	2654.0	2734.6
7.5°	2110.1	2111.0	2117.3	2133.9	2164.1	2221.8	2294.1	2397.5	2565.2	2613.7	2751.1
10°	2150.3	2141.2	2127.5	2119.2	2123.8	2157.7	2226.3	2341.8	2528.6	2590.9	2787.8
12.5°	2375.7	2358.3	2310.7	2247.5	2187.0	2162.2	2202.5	2315.2	2513.0	2585.4	2836.3
15°	2743.8	2736.5	2647.7	2516.7	2370.2	2247.5	2219.9	2305.2	2514.8	2591.7	2894.0
17.5°	3205.3	3195.3	3078.1	2887.6	2648.6	2409.5	2281.4	2313.3	2521.2	2602.8	2949.9
20°	3671.5	3640.4	3514.0	3286.8	2980.0	2630.2	2383.0	2334.5	2529.5	2614.7	3008.5
22.5°	4019.5	3993.9	3880.4	3659.6	3306.0	2885.7	2519.4	2371.0	2556.0	2649.4	3080.8
25°	4325.5	4327.2	4214.5	4001.2	3635.8	3156.8	2695.2	2469.0	2623.9	2720.9	3179.8
27.5°	4703.6	4681.6	4576.4	4364.8	3961.8	3430.6	2907.7	2603.6	2724.6	2822.6	3309.8
30°	5156.1	5140.5	5018.8	4778.8	4323.6	3724.6	3150.4	2760.3	2854.6	2956.2	3480.1
32.5°	5688.1	5680.8	5554.4	5245.9	4741.2	4070.8	3435.2	2967.3	3048.8	3154.1	3724.6
35°	6312.8	6313.6	6164.4	5793.5	5198.2	4473.7	3758.5	3233.7	3285.1	3394.9	4015.9
37.5°	6697.4	6744.1	6688.2	6310.0	5715.7	4924.4	4178.0	3587.3	3554.3	3665.1	4328.2
40°	6779.9	6836.6	7013.4	6821.0	6294.4	5420.8	4549.8	3927.0	3885.8	4021.4	4730.2
42.5°	6664.4	6743.2	7116.8	7252.4	6908.9	6032.5	5049.9	4431.7	4379.4	4561.7	5230.2
45°	6595.8	6654.3	7086.7	7476.7	7441.9	6724.0	5686.3	5065.4	5046.1	5285.2	5807.2
47.5°	6476.7	6529.8	6945.6	7528.9	7755.1	7357.7	6451.0	5840.2	5877.7	6190.9	6458.4
50°	6540.8	6562.7	6788.1	7396.2	7845.8	7822.0	7305.5	6737.7	6865.9	7257.0	7195.6
52.5°	6531.6	6588.5	6769.7	7178.3	7857.7	8108.6	8147.1	7738.8	8008.8	8457.5	8013.4
55°	5280.6	5385.1	6554.6	7123.2	7899.9	8389.8	8896.2	8793.7	9297.4	9820.3	8936.6
57.5°	5042.6	5108.4	5756.9	7238.7	8123.3	8926.5	9729.6	9954.9	10797.5	11404.7	10061.1
60°	4995.8	5077.3	5748.5	7379.7	8576.7	9801.1	10965.1	11360.8	12622.7	13287.7	11365.3
62.5°	4850.1	4938.1	5694.6	7361.4	9220.5	11010.9	12546.7	12855.3	14353.6	15000.2	12456.1
65°	4388.6	4471.0	5254.1	7065.6	9654.5	12302.1	14418.6	14225.4	15720.0	16206.3	13000.1
66°	4072.6	4153.3	4907.0	6717.6	9553.8	12668.5	15081.7	14649.5	16025.9	16406.9	12893.8
67.5°	3494.7	3557.9	4232.9	5938.1	9018.0	12771.1	15639.5	14968.2	16058.0	16192.6	12286.6
70°	2208.0	2226.3	2751.1	4099.2	6826.5	11075.9	14790.5	14176.9	14733.7	14369.2	10300.2
72.5°	957.9	951.5	1320.6	2085.3	3864.7	7432.0	11964.2	11697.8	11557.7	10726.1	7210.2
75°	532.9	540.3	685.9	968.0	1570.6	3650.5	7826.6	7489.6	6323.7	5396.0	3269.5
77.5°	427.6	437.8	568.7	686.9	705.2	1273.0	3662.4	2980.0	1794.0	1439.7	908.5
80°	337.9	356.3	496.4	534.9	475.3	524.8	1183.3	946.0	709.7	651.1	470.7
82.5°	267.4	280.2	425.9	404.8	332.4	353.5	566.9	552.2	461.6	420.3	271.9
85°	192.3	216.2	349.8	305.0	218.0	238.0	376.4	360.9	264.6	216.2	119.9
87.5°	78.7	102.6	247.3	202.3	121.9	110.8	187.7	176.8	125.4	91.6	59.5
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: P193213

CATALOG NUMBER: GAN-AF-05-LED-U-T3R-7030-600-ADJ

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2762.1	2762.1	2762.1	2762.1	2762.1	2762.1	2762.1	2762.1	2762.1	2762.1	2762.1
2.5°	2759.4	2781.3	2809.7	2827.1	2836.3	2842.7	2852.8	2851.8	2854.6	2855.5	2859.2
5°	2777.7	2814.3	2855.5	2866.5	2866.5	2856.5	2846.3	2830.0	2823.5	2821.6	2823.5
7.5°	2825.3	2865.7	2901.3	2888.5	2861.1	2820.7	2768.5	2722.7	2698.0	2689.8	2687.9
10°	2885.7	2934.2	2948.9	2900.4	2819.8	2722.7	2619.3	2544.1	2501.1	2489.2	2485.5
12.5°	2959.0	3004.8	2984.6	2882.0	2732.8	2576.3	2433.3	2313.3	2223.7	2195.2	2193.4
15°	3039.6	3075.3	3004.8	2825.3	2602.8	2372.0	2117.3	1910.4	1798.6	1762.9	1760.1
17.5°	3114.7	3133.0	2992.9	2726.3	2411.4	2037.6	1699.7	1540.4	1502.0	1511.0	1512.9
20°	3178.8	3178.8	2952.6	2584.4	2110.1	1597.2	1383.8	1381.0	1408.6	1436.0	1441.4
22.5°	3249.4	3207.2	2882.0	2383.9	1683.2	1306.8	1275.7	1301.4	1332.5	1362.8	1367.3
25°	3336.3	3230.1	2784.2	2079.9	1323.3	1186.9	1198.8	1219.9	1235.4	1254.7	1257.5
27.5°	3433.4	3259.4	2655.0	1661.3	1148.5	1111.8	1121.0	1128.3	1126.5	1133.8	1135.6
30°	3549.8	3293.3	2478.2	1298.6	1076.1	1047.7	1031.2	1024.9	1024.9	1036.8	1041.2
32.5°	3705.4	3343.7	2224.5	1112.7	1041.2	1001.9	948.8	925.0	934.1	974.5	983.6
35°	3876.6	3397.8	1881.1	1049.6	1033.9	980.8	898.4	854.4	855.4	892.9	904.7
37.5°	4063.5	3466.4	1504.7	1037.6	1050.4	981.8	871.9	811.5	786.6	786.6	791.2
40°	4302.5	3536.9	1218.0	1045.8	1085.3	992.7	858.1	777.5	707.9	709.7	713.5
42.5°	4613.9	3597.4	1064.1	1063.3	1127.3	1007.4	857.2	732.7	672.2	713.5	750.9
45°	4960.1	3627.5	996.5	1078.8	1161.2	1016.5	842.6	725.4	676.8	799.6	870.9
47.5°	5358.5	3610.2	958.9	1084.3	1169.5	1016.5	826.1	742.8	708.9	925.9	1009.2
50°	5795.3	3559.7	922.2	1073.4	1166.8	1014.7	841.7	760.1	720.8	947.9	1005.6
52.5°	6309.0	3517.7	883.8	1049.6	1147.5	1004.6	860.0	752.8	683.2	861.8	902.1
55°	6895.3	3529.6	840.7	1015.7	1117.2	985.4	853.6	723.6	643.9	759.3	783.9
57.5°	7644.4	3671.5	789.4	972.6	1076.1	953.4	830.7	709.7	631.9	688.7	703.3
60°	8480.4	3918.8	725.4	929.6	1024.9	902.1	813.2	716.2	637.4	683.2	690.5
62.5°	9094.0	4062.6	670.5	866.3	955.3	845.3	791.2	724.4	652.1	702.4	700.6
65°	9260.9	3826.3	601.7	773.9	860.9	785.8	763.8	733.5	658.5	718.1	709.7
66°	9027.2	3571.6	571.4	730.8	813.2	756.5	750.1	732.7	655.8	719.8	706.2
67.5°	8460.4	3049.7	519.3	667.7	737.3	712.5	728.1	724.4	648.5	718.1	698.8
70°	6899.8	2080.8	444.1	555.9	613.6	627.3	685.9	695.1	624.6	685.9	643.9
72.5°	4820.8	1267.5	392.9	431.3	496.4	534.9	628.2	654.8	592.5	599.0	558.7
75°	2329.9	673.1	356.3	334.3	385.5	446.9	558.7	599.9	542.2	501.0	486.3
77.5°	726.2	411.3	302.2	269.3	302.2	360.9	467.1	525.6	482.6	419.4	414.0
80°	390.2	302.2	232.6	216.2	239.1	283.0	367.2	438.6	414.8	376.4	336.1
82.5°	257.3	196.0	172.2	167.6	182.3	216.2	272.9	363.7	363.7	322.4	234.5
85°	132.8	119.9	118.1	118.1	127.3	143.7	186.0	280.2	298.6	170.3	141.1
87.5°	66.0	68.8	64.1	66.8	71.4	70.5	88.8	141.1	168.5	103.5	86.1
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)