

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: P318457

Luminaire Tested: **GAN-SA3D-750-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318457
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA3D-750-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23693 lumens
Efficiency: N/A
Efficacy: 124.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

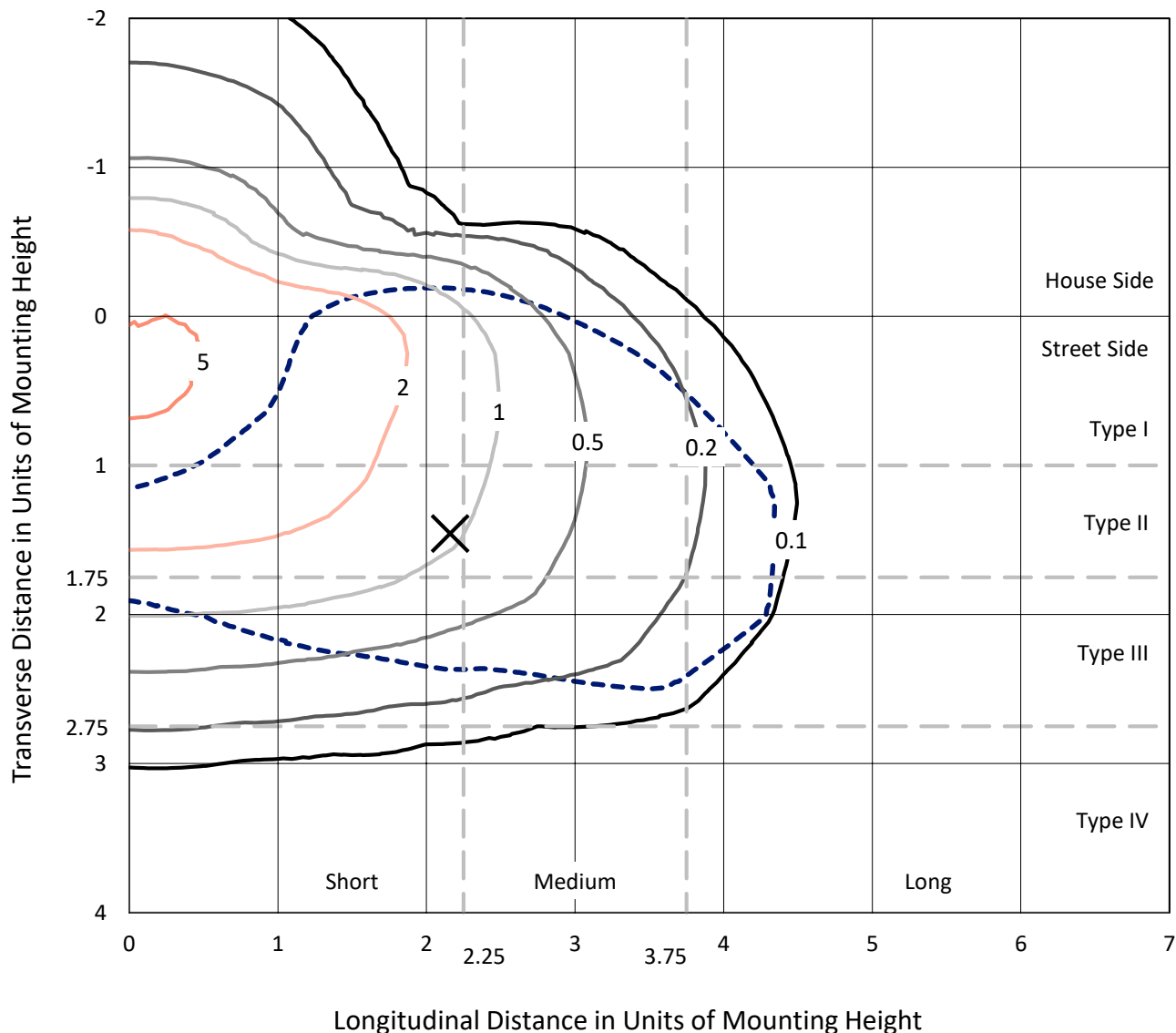
Input Watts (W): 191
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

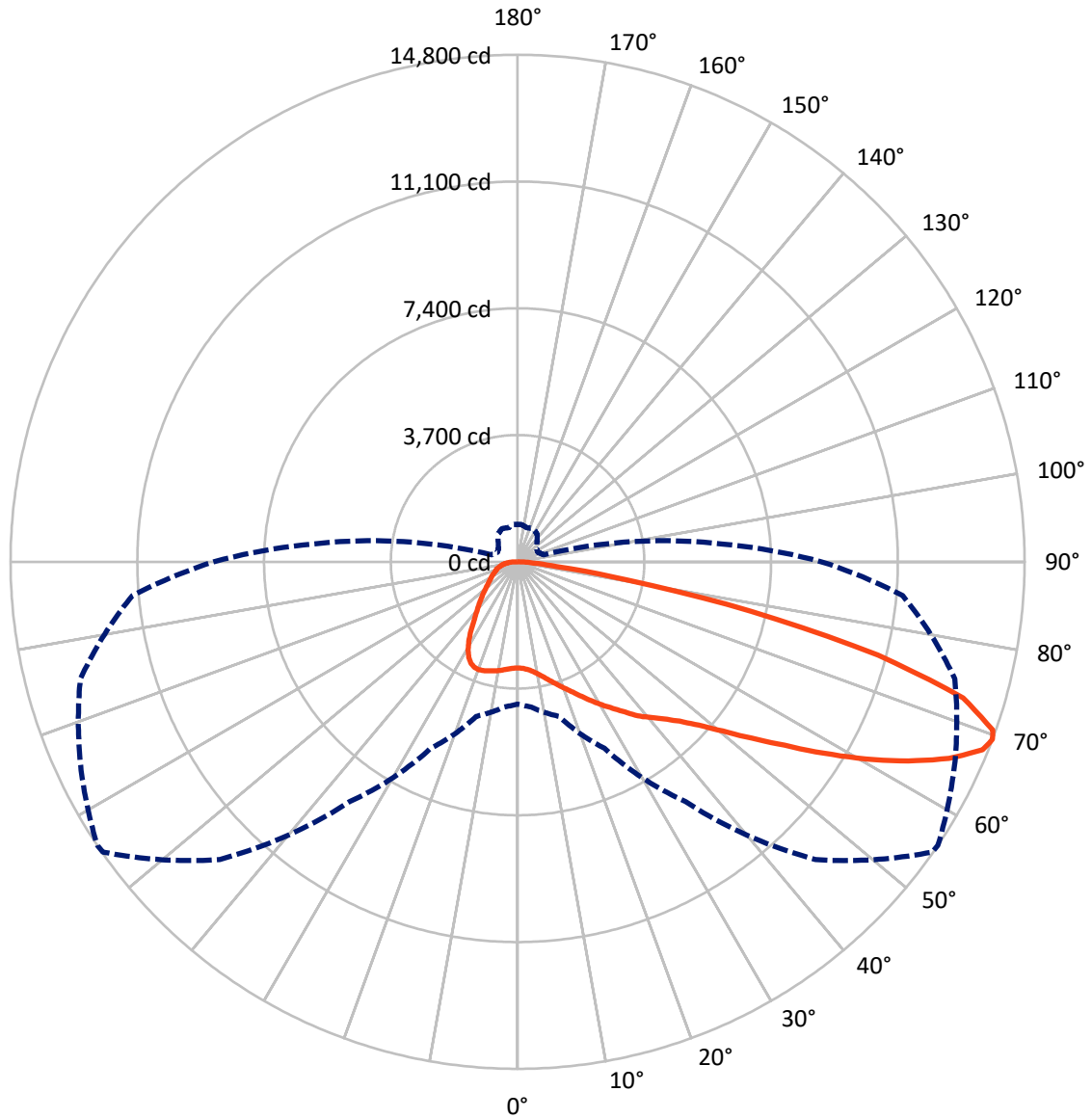
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5276.4	0.0	5276.4
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	18416.6	0.0	18416.6
	% Fixture	77.7	0.0	77.7
Total	Lumens	23693.0	0.0	23693.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	304.2	1.3
10°-20°	978.3	4.1
20°-30°	1707.7	7.2
30°-40°	2453.0	10.4
40°-50°	3394.8	14.3
50°-60°	4973.9	21.0
60°-70°	6064.1	25.6
70°-80°	3352.6	14.2
80°-90°	464.3	2.0
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°	23693.0	100.0
0°-180°	23693.0	100.0

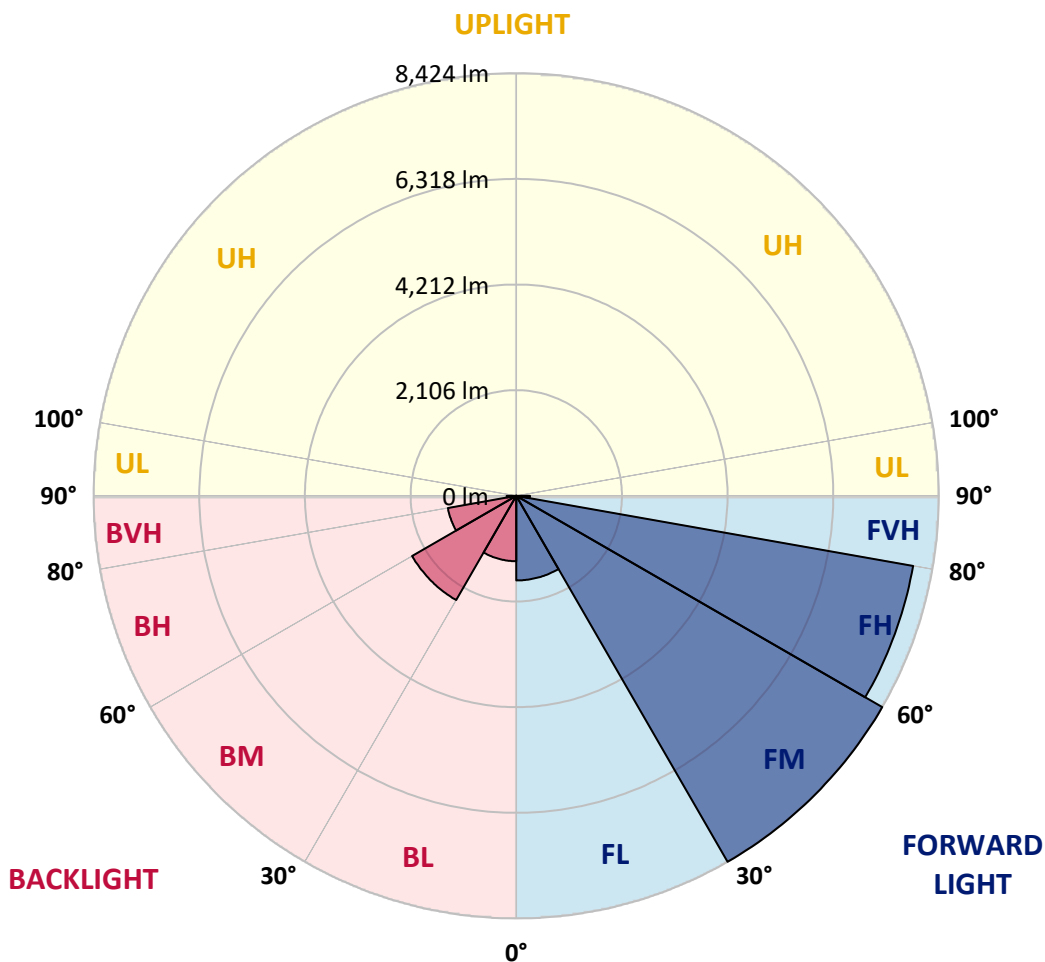


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1686.2	7.1			
FM (30°-60°)	8423.7	35.6			
FH (60°-80°)	8033.1	33.9			G4/12000
FVH (80°-90°)	273.5	1.2			G3/500
BL (0°-30°)	1303.9	5.5	B3/2500		
BM (30°-60°)	2398.0	10.1	B2/2500		
BH (60°-80°)	1383.6	5.8	B3/2500		G3/2500
BVH (80°-90°)	190.8	0.8			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	3097.5	3097.5	3097.5	3097.5	3097.5	3097.5	3097.5	3097.5	3097.5	3097.5	3097.5
2.5°	3117.1	3120.4	3117.9	3124.4	3117.1	3122.0	3117.9	3117.9	3115.5	3108.1	3100.0
5°	3166.1	3172.6	3168.5	3175.0	3166.1	3167.7	3160.4	3160.4	3153.0	3137.5	3121.2
7.5°	3242.8	3250.1	3246.9	3253.4	3241.2	3241.2	3231.4	3230.5	3215.9	3190.6	3171.8
10°	3334.2	3344.0	3340.7	3350.5	3340.7	3344.0	3334.2	3334.2	3314.6	3278.7	3255.0
12.5°	3467.2	3479.5	3470.5	3469.7	3465.6	3472.1	3464.0	3462.3	3444.4	3395.4	3362.8
15°	3645.2	3658.2	3639.5	3637.8	3615.0	3612.5	3612.5	3610.1	3598.7	3539.9	3486.0
17.5°	3850.0	3854.1	3837.8	3811.7	3782.3	3763.5	3761.1	3767.6	3767.6	3699.0	3613.3
20°	4050.8	4058.2	4045.1	4015.7	3978.2	3950.4	3930.8	3943.9	3943.1	3861.5	3739.9
22.5°	4269.6	4286.7	4267.1	4229.6	4185.5	4154.5	4120.2	4131.6	4132.5	4032.1	3863.9
25°	4552.8	4537.3	4525.0	4472.0	4409.1	4377.3	4345.5	4356.9	4353.6	4215.7	3992.1
27.5°	4803.4	4806.6	4790.3	4734.0	4661.4	4591.2	4589.5	4596.9	4584.6	4406.7	4112.9
30°	5094.8	5096.4	5073.5	5022.9	4943.8	4853.2	4831.9	4844.2	4818.1	4587.9	4240.2
32.5°	5384.5	5392.7	5367.4	5306.2	5242.5	5132.3	5089.9	5098.0	5032.7	4773.2	4371.6
35°	5638.4	5649.8	5641.6	5600.8	5531.4	5436.8	5386.1	5381.2	5300.4	5000.1	4545.5
37.5°	5897.1	5907.7	5898.7	5864.4	5836.7	5736.3	5709.4	5709.4	5569.0	5231.9	4766.6
40°	6163.2	6179.5	6168.9	6121.5	6097.9	6052.2	5987.7	5972.2	5820.4	5510.2	5127.4
42.5°	6410.5	6431.7	6474.1	6446.4	6398.2	6404.8	6275.0	6266.8	6155.8	5921.6	5580.4
45°	6761.5	6792.5	6864.3	6843.1	6833.3	6797.4	6643.1	6635.8	6593.3	6475.0	6142.8
47.5°	7144.3	7186.7	7316.5	7320.6	7425.8	7358.1	7148.3	7123.0	7132.8	7137.7	6829.2
50°	7496.9	7543.4	7756.4	7856.8	8104.9	8119.6	7784.2	7761.3	7799.7	7912.3	7629.1
52.5°	7778.4	7837.2	8103.3	8413.5	8838.7	8959.5	8566.9	8549.8	8578.3	8772.6	8533.4
55°	7984.9	8048.6	8338.4	8903.2	9582.3	9795.3	9468.0	9451.7	9469.6	9716.9	9517.0
57.5°	8033.1	8048.6	8469.0	9232.9	10209.9	10721.7	10570.7	10538.0	10449.9	10665.4	10602.5
60°	7807.0	7869.0	8361.2	9348.8	10695.6	11635.0	11723.2	11682.4	11435.1	11611.4	11560.7
62.5°	7348.3	7459.3	7958.8	9172.5	10885.7	12381.0	12853.6	12804.6	12378.6	12492.9	12249.6
65°	6599.0	6646.4	7171.2	8564.5	10644.1	12858.5	13861.6	13837.1	13300.9	13122.1	12377.0
67.5°	5258.8	5347.8	5793.4	7293.6	9655.7	12802.2	14641.1	14638.7	13903.3	13355.6	11925.6
69°	4154.5	4246.7	4671.1	6008.1	8544.0	12287.2	14771.7	14800.3	14073.0	13213.6	11280.8
70°	3312.2	3419.1	3710.5	5060.5	7557.3	11608.1	14663.1	14714.6	14040.4	12979.3	10685.8
72.5°	1409.6	1496.1	1703.4	2608.6	4605.9	8668.1	13407.0	13601.3	13283.8	11879.1	8831.4
75°	615.4	642.4	736.2	1063.5	2044.6	4717.7	10502.9	10862.1	11358.3	10041.0	6578.6
77.5°	450.5	462.0	513.4	624.4	917.4	1781.8	6754.1	6963.1	8191.4	7306.7	4035.3
80°	348.5	356.7	396.7	458.7	599.1	720.7	3080.4	3259.9	4605.9	3752.9	1680.6
82.5°	277.5	283.2	311.0	337.9	413.8	436.7	1022.7	1134.5	1700.2	1036.6	444.8
85°	257.9	264.5	274.2	246.5	265.3	256.3	442.4	462.8	513.4	407.3	186.1
87.5°	116.7	137.9	271.8	191.8	141.2	112.6	181.2	189.4	213.0	213.8	82.4
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°	3097.5	3097.5	3097.5	3097.5	3097.5	3097.5	3097.5	3097.5	3097.5	3097.5	3097.5
2.5°	3104.8	3102.4	3106.5	3096.7	3108.9	3108.1	3104.0	3105.7	3113.8	3113.0	3113.8
5°	3123.6	3122.0	3126.9	3119.5	3134.2	3139.1	3139.9	3147.3	3156.3	3158.7	3158.7
7.5°	3171.0	3171.0	3173.4	3163.6	3173.4	3172.6	3168.5	3175.9	3184.8	3185.7	3184.8
10°	3252.6	3253.4	3249.3	3224.0	3215.9	3193.8	3173.4	3174.2	3185.7	3194.6	3197.1
12.5°	3355.4	3352.2	3334.2	3287.7	3253.4	3208.5	3187.3	3186.5	3197.9	3205.2	3207.7
15°	3473.0	3464.0	3417.5	3341.5	3281.1	3237.1	3202.8	3194.6	3188.1	3179.9	3180.8
17.5°	3584.0	3563.6	3486.0	3380.7	3317.1	3258.3	3192.2	3139.1	3102.4	3081.2	3074.6
20°	3696.6	3656.6	3544.8	3417.5	3336.7	3229.7	3102.4	2994.7	2927.7	2896.7	2891.0
22.5°	3799.4	3735.0	3599.5	3455.8	3321.1	3133.4	2933.4	2776.7	2683.7	2642.1	2645.3
25°	3899.8	3810.1	3656.6	3482.8	3242.8	2963.6	2698.4	2505.8	2398.0	2351.5	2349.9
27.5°	3988.0	3886.0	3718.6	3460.7	3096.7	2722.0	2420.1	2232.3	2142.5	2102.5	2096.0
30°	4089.2	3981.5	3801.1	3376.6	2882.8	2442.9	2148.3	2016.0	1952.4	1912.4	1905.0
32.5°	4212.4	4111.2	3868.8	3224.0	2609.4	2151.5	1936.0	1843.8	1785.9	1741.0	1732.8
35°	4392.0	4282.6	3886.0	3005.3	2309.0	1921.3	1780.1	1685.5	1607.1	1549.2	1543.4
37.5°	4617.3	4497.3	3846.8	2722.0	2017.7	1772.0	1650.4	1533.7	1431.6	1350.0	1336.9
40°	4942.1	4760.9	3738.2	2395.6	1803.0	1656.9	1523.9	1390.8	1264.3	1168.8	1150.0
42.5°	5332.3	5070.3	3571.7	2070.7	1645.5	1540.2	1398.2	1233.3	1112.5	1044.7	1034.9
45°	5828.5	5391.9	3340.7	1786.7	1490.4	1423.5	1262.7	1110.9	1035.8	986.0	977.8
47.5°	6395.0	5752.6	3098.3	1555.7	1359.0	1314.1	1154.1	1056.2	996.6	957.4	950.1
50°	7091.2	6159.9	2841.2	1366.3	1226.8	1182.7	1102.7	1026.0	978.6	948.4	941.1
52.5°	7876.4	6619.4	2655.9	1217.0	1117.4	1085.6	1075.8	1009.6	971.3	948.4	941.1
55°	8722.0	7087.1	2456.0	1091.3	1022.7	1031.7	1057.8	1011.3	985.2	957.4	946.8
57.5°	9568.4	7570.3	2233.1	985.2	947.6	991.7	1045.6	1014.5	992.5	965.6	955.8
60°	10237.7	7876.4	1887.9	896.2	888.0	947.6	1016.2	990.1	961.5	962.3	960.7
62.5°	10550.3	7860.1	1506.7	817.0	828.4	888.0	968.8	951.7	928.0	959.9	962.3
65°	10374.8	7468.3	1172.9	745.2	764.8	826.0	919.9	932.9	941.1	1002.3	1010.5
67.5°	9638.6	6706.0	908.4	682.3	706.8	783.6	924.8	1016.2	1026.8	1091.3	1090.5
69°	8877.1	5991.0	789.3	649.7	678.3	794.2	988.4	1069.2	1029.2	1097.8	1088.0
70°	8238.8	5425.3	725.6	627.7	665.2	812.9	1030.9	1068.4	1017.0	1075.8	1059.4
72.5°	6345.2	3903.1	615.4	586.9	621.1	777.8	1043.1	1044.7	988.4	999.9	972.1
75°	4352.0	2466.6	537.1	531.4	554.2	701.1	1003.9	998.2	914.2	897.8	875.0
77.5°	2399.6	1252.9	456.3	478.3	493.8	621.1	912.5	904.4	835.0	800.7	792.5
80°	925.6	548.5	385.2	425.2	435.0	537.9	799.9	792.5	734.6	690.5	678.3
82.5°	349.3	287.3	318.3	368.1	364.8	444.0	677.5	673.4	617.1	552.6	533.0
85°	161.6	172.2	252.2	303.6	280.0	328.9	542.0	549.3	480.7	404.0	404.0
87.5°	68.6	96.3	178.7	229.4	188.5	222.0	397.5	379.5	348.5	241.6	226.9
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)