

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: P317774

Luminaire Tested: **GAN-SA0C-740-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317774
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0C-740-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 71581 lumens
Efficiency: N/A
Efficacy: 128.3 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

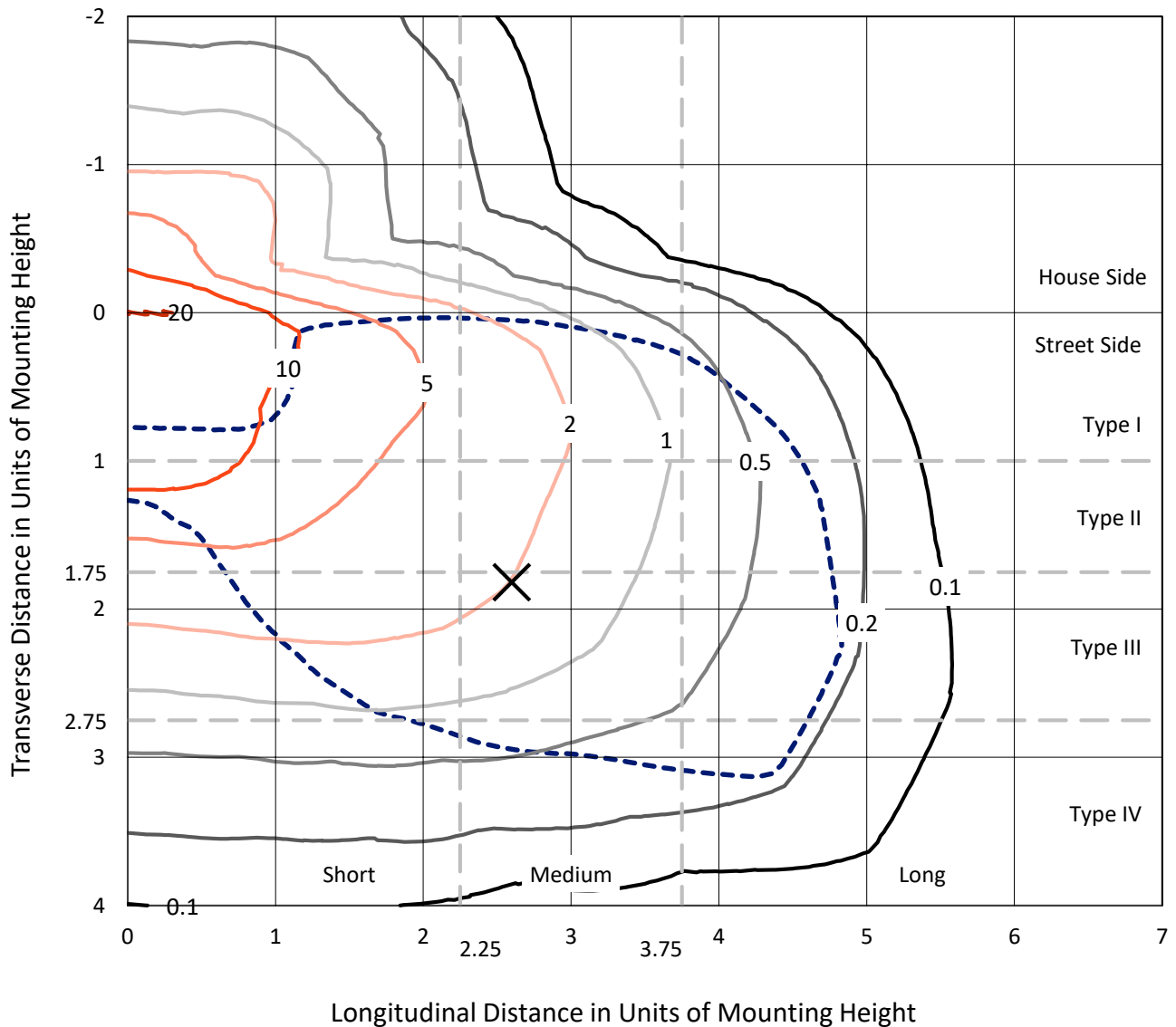
Input Watts (W): 558
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

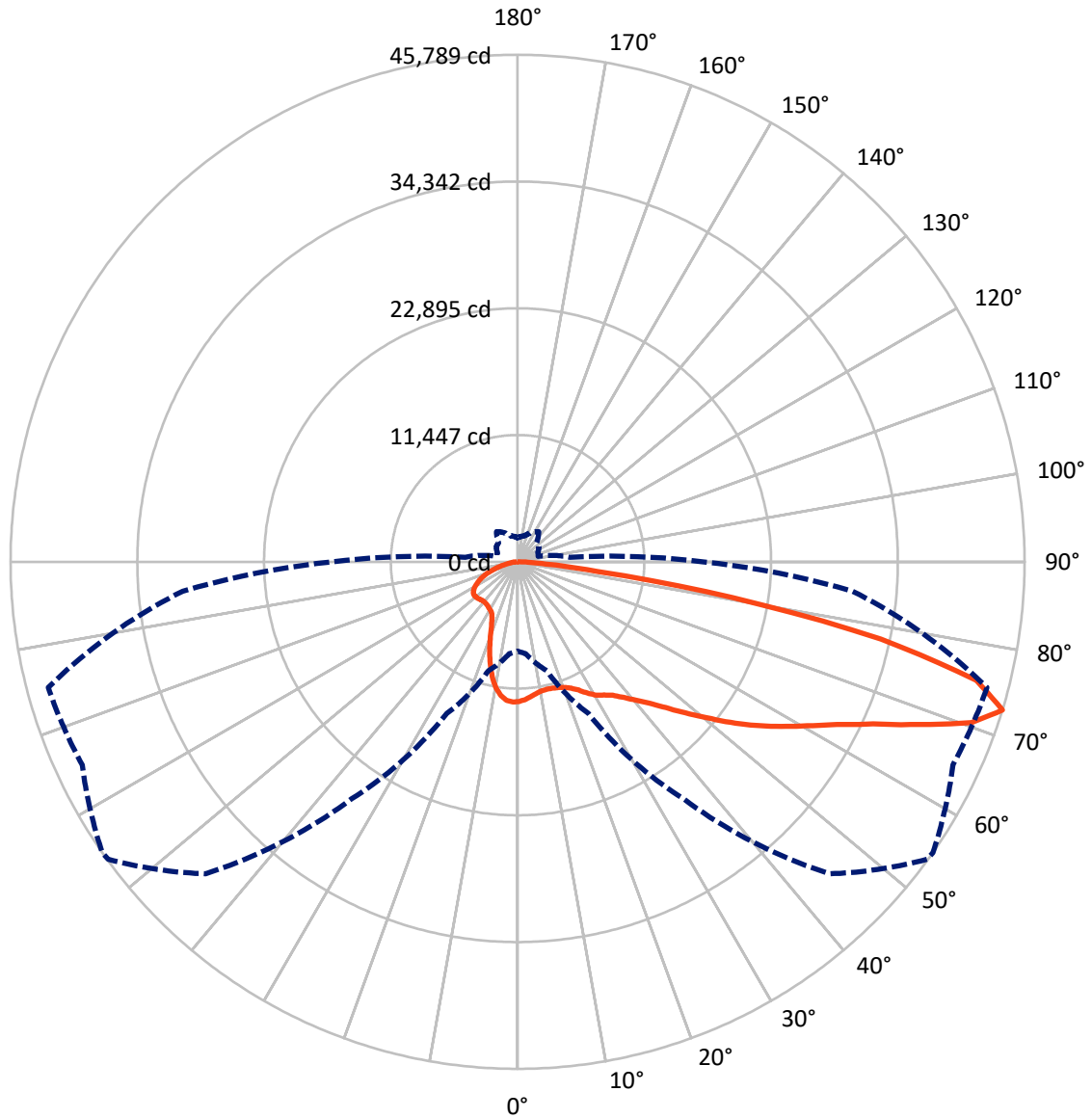
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.3 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13304.6	0.0	13304.6
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	58276.4	0.0	58276.4
	% Fixture	81.4	0.0	81.4
Total	Lumens	71581.0	0.0	71581.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1142.4	1.6
10°-20°	3041.6	4.2
20°-30°	5014.9	7.0
30°-40°	7418.2	10.4
40°-50°	10354.3	14.5
50°-60°	13481.6	18.8
60°-70°	16568.5	23.1
70°-80°	12987.7	18.1
80°-90°	1571.7	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°	71581.0	100.0
0°-180°	71581.0	100.0

Coefficient of Utilization



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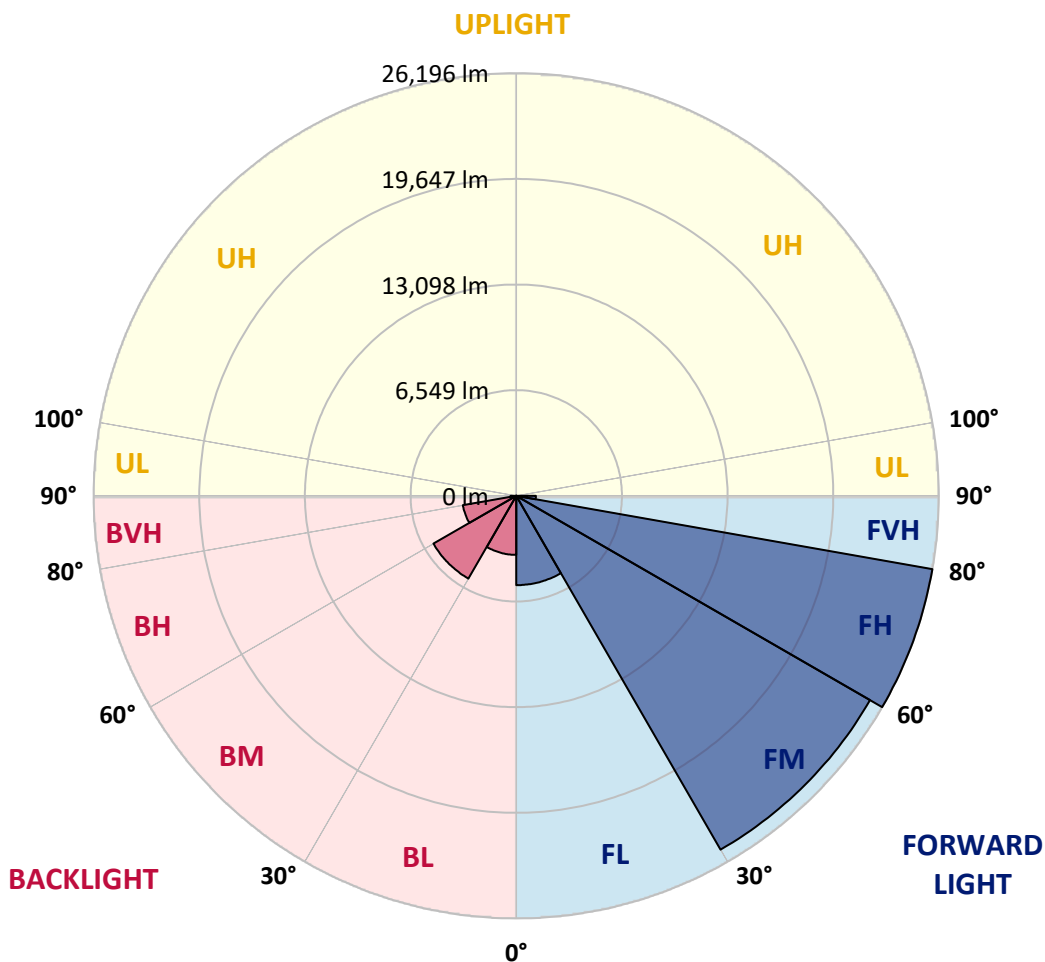
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5538.3	7.7			
FM (30°-60°)	25326.8	35.4			
FH (60°-80°)	26196.2	36.6			G5
FVH (80°-90°)	1215.2	1.7			G5
BL (0°-30°)	3660.6	5.1	B4/5000		
BM (30°-60°)	5927.4	8.3	B4/8500		
BH (60°-80°)	3360.0	4.7	B4/5000		G4/5000
BVH (80°-90°)	356.5	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 IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	12625.3	12625.3	12625.3	12625.3	12625.3	12625.3	12625.3	12625.3	12625.3	12625.3	12625.3
2.5°	12214.3	12185.3	12221.6	12272.4	12328.0	12402.9	12446.4	12465.8	12540.7	12569.7	12632.6
5°	11648.6	11634.1	11694.5	11781.6	11904.9	12078.9	12219.2	12245.8	12444.0	12584.2	12712.4
7.5°	11237.6	11237.6	11307.7	11411.7	11549.5	11784.0	11982.2	12018.5	12354.6	12656.8	12893.7
10°	10911.2	10923.3	11005.5	11128.8	11290.8	11539.8	11803.3	11844.4	12330.4	12826.0	13203.2
12.5°	10693.6	10722.6	10797.5	10908.8	11109.4	11411.7	11745.3	11800.9	12381.2	13067.8	13575.5
15°	10831.4	10879.8	10887.0	10932.9	11044.2	11373.0	11779.1	11837.2	12490.0	13314.4	13998.6
17.5°	11435.8	11452.8	11377.8	11281.1	11227.9	11438.2	11880.7	11941.1	12620.5	13558.6	14404.8
20°	12354.6	12344.9	12182.9	11921.8	11651.0	11684.9	12047.5	12110.4	12797.0	13773.8	14811.0
22.5°	13515.1	13481.2	13232.2	12751.1	12289.3	12095.9	12340.1	12393.2	13063.0	14080.8	15246.2
25°	14922.2	14847.2	14518.4	13872.9	13193.5	12695.5	12780.1	12830.9	13449.8	14424.1	15645.1
27.5°	16406.7	16331.7	15913.5	15132.5	14228.3	13452.2	13386.9	13430.4	13889.8	14678.0	15940.0
30°	17958.8	17879.1	17497.1	16621.8	15325.9	14235.6	13952.7	13969.6	14199.3	14815.8	16181.8
32.5°	19518.3	19443.3	19015.4	17999.9	16517.9	15076.9	14361.3	14339.5	14385.5	14958.5	16455.0
35°	21099.5	21128.5	20628.0	19503.8	17838.0	16012.6	14844.8	14798.9	14697.3	15251.0	16841.9
37.5°	22791.9	22772.5	22124.6	20949.6	19218.5	17028.0	15538.7	15531.5	15180.9	15804.7	17448.7
40°	23923.4	23935.5	23541.4	22429.2	20613.5	18152.3	16428.4	16411.5	15952.1	16633.9	18244.1
42.5°	24365.8	24445.6	24547.1	23841.2	22073.8	19455.4	17489.8	17465.6	17028.0	17823.5	19179.8
45°	24397.2	24556.8	25185.4	25096.0	23553.5	20947.2	18846.1	18778.5	18464.1	19404.6	20296.8
47.5°	24126.5	24290.9	25335.3	25843.0	24875.9	22521.1	20432.2	20379.0	20108.2	21382.3	21505.6
50°	23534.1	23691.3	25025.8	26208.1	25963.9	24034.6	22260.0	22119.7	21974.7	23667.1	22888.6
52.5°	22424.4	22726.6	24612.4	26295.2	26614.3	25378.8	24182.1	24090.2	24170.0	26077.6	24273.9
55°	19796.3	20134.8	23546.2	26222.6	27095.4	26507.9	26104.2	26099.3	26512.7	28606.5	25760.8
57.5°	18323.9	18563.3	21375.1	26099.3	27666.0	27629.7	28006.9	28052.8	28857.9	31360.3	27317.8
60°	17492.2	17743.7	20275.0	25642.4	28550.9	29080.4	29948.3	30040.2	31241.8	34409.0	29191.6
62.5°	16735.5	17011.1	19593.2	24711.5	29592.9	31154.8	32274.2	32356.4	33765.9	37542.4	31002.5
65°	15442.0	15753.9	18594.7	24099.9	30540.7	33860.2	35231.1	35286.7	36664.8	40825.7	32387.8
67.5°	13614.2	13899.5	16711.3	22748.4	31241.8	37145.9	39162.3	39193.7	39539.4	43144.3	33096.2
70°	11479.3	11588.1	14027.6	19958.3	30412.5	40218.8	43470.7	43477.9	42160.2	44628.7	32980.2
72.5°	8065.5	8321.8	10183.4	15108.3	26135.6	39844.1	45707.0	45789.3	43378.8	43879.3	30344.8
75°	4946.7	5217.4	6387.6	9155.9	16580.7	31336.1	42230.4	42800.9	41094.0	39123.6	24788.9
77.5°	3307.4	3409.0	4168.2	5338.3	7511.9	18029.0	32467.6	33541.1	34138.2	28531.5	15853.0
80°	1844.7	2038.1	2763.5	3317.1	3341.3	7163.7	19467.5	19718.9	18993.6	11360.9	4891.1
82.5°	976.8	1083.1	1844.7	1948.7	1823.0	2398.4	7255.6	7262.8	6068.5	3046.3	1453.1
85°	756.7	846.2	1264.5	1189.5	930.8	1063.8	2393.5	2524.1	2064.7	1247.5	473.9
87.5°	377.2	469.0	858.3	754.3	365.1	304.6	855.9	913.9	814.8	488.4	171.7
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°	12625.3	12625.3	12625.3	12625.3	12625.3	12625.3	12625.3	12625.3	12625.3	12625.3	12625.3
2.5°	12656.8	12678.5	12705.1	12676.1	12666.4	12627.8	12562.5	12548.0	12514.1	12516.6	12535.9
5°	12768.0	12804.3	12789.8	12678.5	12545.6	12359.4	12166.0	12001.6	11892.8	11885.5	11878.3
7.5°	12980.8	13004.9	12891.3	12574.6	12202.2	11771.9	11365.7	11010.3	10795.1	10741.9	10729.9
10°	13314.4	13309.6	12997.7	12359.4	11617.2	10848.3	10195.5	9702.3	9414.6	9330.0	9308.2
12.5°	13686.7	13631.1	13033.9	11967.7	10790.3	9724.1	8897.2	8348.4	8048.6	7951.9	7927.7
15°	14071.1	13933.3	12944.5	11382.6	9774.9	8512.8	7644.8	7137.1	6975.1	6921.9	6912.3
17.5°	14429.0	14163.0	12688.2	10589.6	8616.8	7306.4	6629.4	6426.3	6465.0	6535.1	6537.5
20°	14779.5	14317.8	12277.2	9588.7	7395.8	6312.7	6083.0	6232.9	6416.6	6559.3	6578.6
22.5°	15125.3	14426.6	11747.7	8433.0	6303.0	5754.2	5916.2	6189.4	6399.7	6554.4	6581.0
25°	15415.4	14453.1	11017.6	7200.0	5543.8	5543.8	5836.4	6095.1	6303.0	6455.3	6481.9
27.5°	15521.8	14274.2	9987.6	6058.8	5161.8	5447.1	5725.2	5940.3	6116.8	6278.8	6307.8
30°	15562.9	13943.0	8798.1	5142.5	5004.7	5343.2	5575.3	5759.0	5925.8	6078.2	6104.7
32.5°	15570.1	13544.1	7536.0	4622.7	4895.9	5234.4	5389.1	5551.1	5730.0	5790.4	5800.1
35°	15616.1	13072.6	6206.3	4356.7	4794.3	5132.8	5256.1	5372.2	5082.1	5103.8	5123.2
37.5°	15749.0	12606.0	5094.1	4206.8	4729.1	5079.6	5227.1	4806.4	4579.2	4526.0	4518.7
40°	15998.1	12108.0	4269.7	4086.0	4704.9	5106.2	5041.0	4487.3	4095.6	3803.1	3759.6
42.5°	16343.8	11571.2	3742.6	4006.2	4721.8	5234.4	4782.3	4180.2	3529.9	3341.3	3317.1
45°	16733.1	11007.9	3457.3	3950.6	4779.8	5333.5	4729.1	3771.6	3266.3	3123.7	3111.6
47.5°	17110.2	10318.8	3309.9	3926.4	4859.6	5253.7	4504.2	3645.9	3140.6	3065.7	3072.9
50°	17543.0	9697.5	3220.4	3899.8	4929.7	5202.9	4250.4	3580.6	3092.3	3184.1	3280.8
52.5°	17908.1	9054.4	3140.6	3846.6	4956.3	5113.5	4185.1	3592.7	3092.3	3268.8	3360.6
55°	18340.8	8568.4	3048.7	3735.4	4905.6	4859.6	4139.1	3665.3	3128.5	3017.3	3027.0
57.5°	18899.3	8408.8	2947.2	3561.3	4736.3	4489.7	4117.4	3735.4	3106.8	3036.7	3060.8
60°	19673.0	8578.1	2906.1	3334.0	4472.8	4199.6	4119.8	3699.1	2954.5	2833.6	2836.0
62.5°	20410.4	8766.7	2903.7	3191.4	4148.8	3940.9	4064.2	3580.6	2877.1	2807.0	2833.6
65°	20652.2	8575.7	2787.6	3031.8	3783.7	3631.4	3962.6	3454.9	2819.1	2712.7	2707.8
67.5°	20328.2	7983.3	2553.1	2773.1	3365.5	3271.2	3829.7	3305.0	2727.2	2640.2	2625.6
70°	19366.0	6660.8	2263.0	2432.2	2889.2	2865.0	3619.3	3131.0	2603.9	2528.9	2466.1
72.5°	16776.6	4746.0	1907.6	2023.6	2352.4	2429.8	3329.2	2903.7	2429.8	2267.8	2171.1
75°	13778.6	3513.0	1566.7	1590.9	1786.7	1997.0	2930.3	2637.7	2224.3	1948.7	1873.7
77.5°	8437.9	2149.4	1247.5	1257.2	1281.4	1593.3	2412.9	2340.4	1963.2	1624.7	1571.5
80°	2732.0	1172.6	901.8	947.7	875.2	1167.8	1866.5	1992.2	1685.2	1358.8	1300.7
82.5°	1039.6	684.2	609.3	640.7	606.8	783.3	1361.2	1595.7	1380.5	1117.0	909.1
85°	502.9	386.8	360.2	403.8	374.7	401.3	870.4	1175.0	1046.9	727.7	677.0
87.5°	178.9	171.7	137.8	186.2	159.6	142.6	265.9	592.3	691.5	500.5	447.3
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)