

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: P318458

Luminaire Tested: **GAN-SA4D-750-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318458
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-SA4D-750-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 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: 31306 lumens
Efficiency: N/A
Efficacy: 121.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

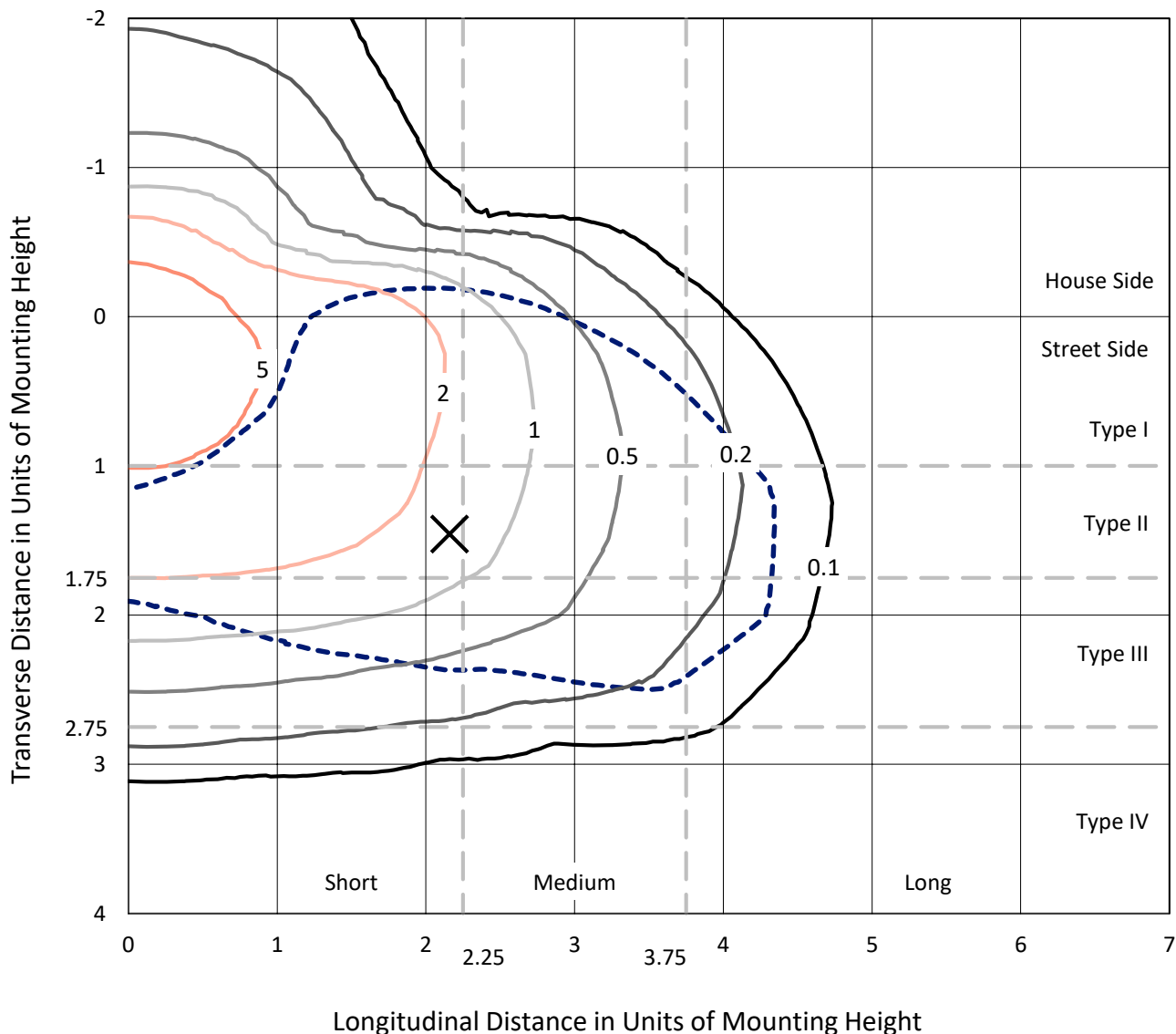
Input Watts (W): 258
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

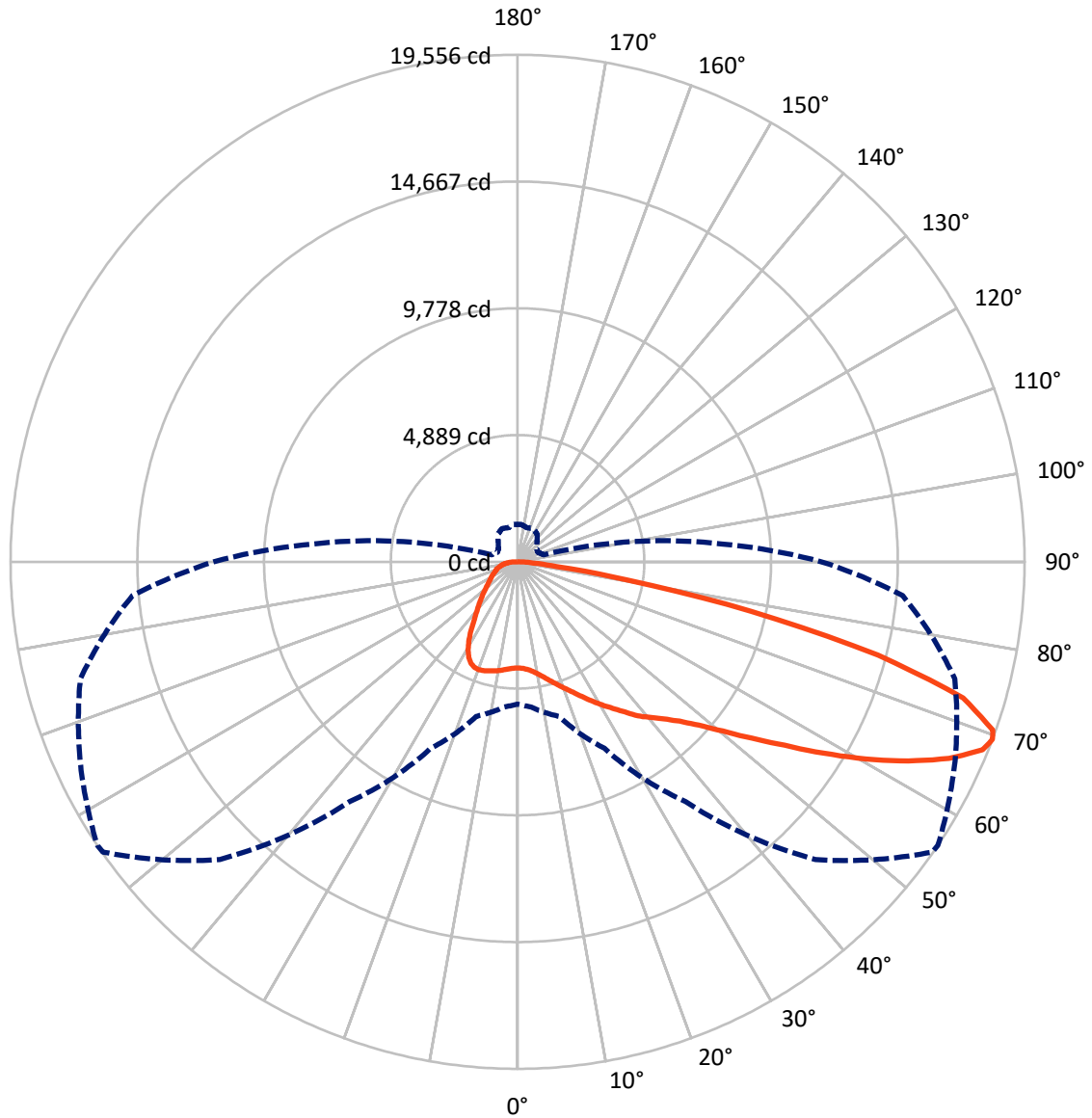
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 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	6971.8	0.0	6971.8
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	24334.2	0.0	24334.2
	% Fixture	77.7	0.0	77.7
Total	Lumens	31306.0	0.0	31306.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	402.0	1.3
10°-20°	1292.6	4.1
20°-30°	2256.4	7.2
30°-40°	3241.2	10.4
40°-50°	4485.7	14.3
50°-60°	6572.1	21.0
60°-70°	8012.6	25.6
70°-80°	4429.9	14.2
80°-90°	613.5	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°	31306.0	100.0
0°-180°	31306.0	100.0

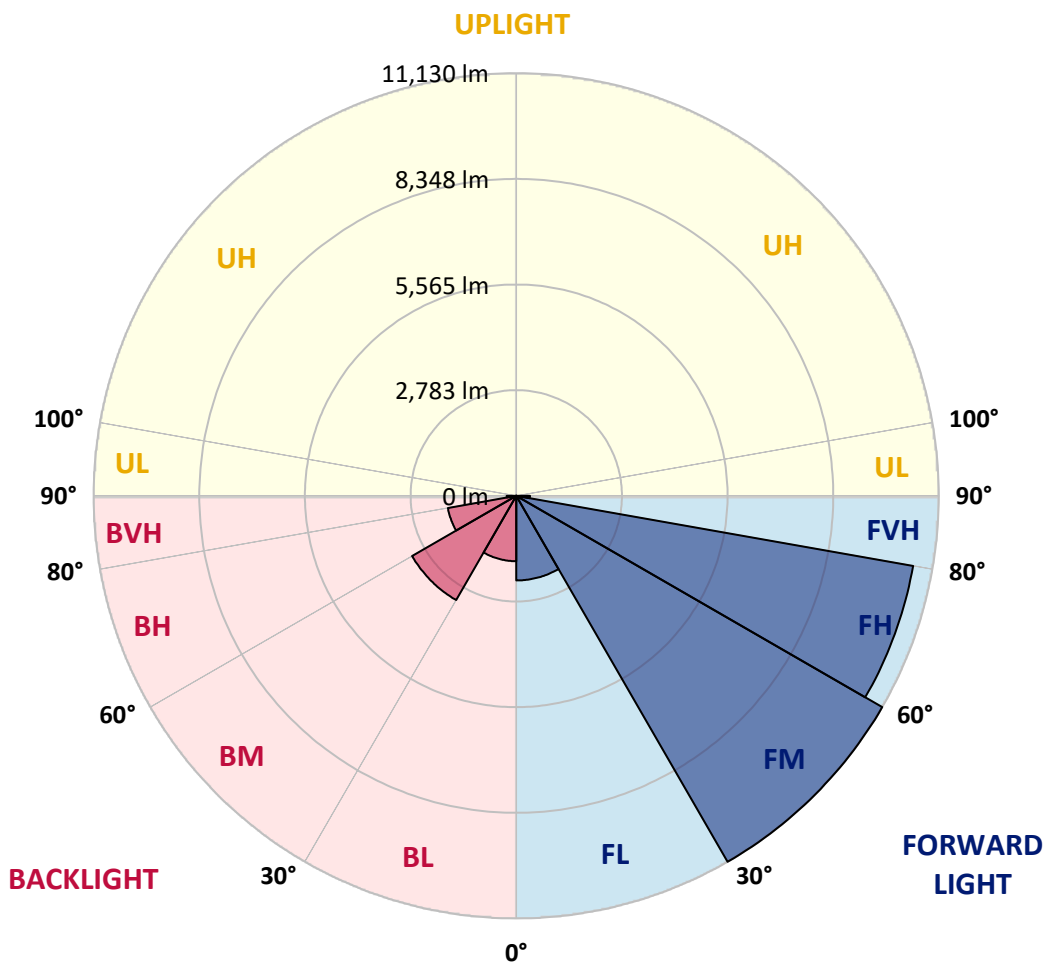


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2228.1	7.1			
FM (30°-60°)	11130.4	35.6			
FH (60°-80°)	10614.3	33.9			G4/12000
FVH (80°-90°)	361.4	1.2			G3/500
BL (0°-30°)	1722.9	5.5	B3/2500		
BM (30°-60°)	3168.5	10.1	B3/5000		
BH (60°-80°)	1828.2	5.8	B3/2500		G3/2500
BVH (80°-90°)	252.1	0.8			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	4092.8	4092.8	4092.8	4092.8	4092.8	4092.8	4092.8	4092.8	4092.8	4092.8	4092.8
2.5°	4118.7	4123.0	4119.7	4128.4	4118.7	4125.1	4119.7	4119.7	4116.5	4106.8	4096.0
5°	4183.4	4192.0	4186.6	4195.2	4183.4	4185.5	4175.8	4175.8	4166.1	4145.6	4124.1
7.5°	4284.8	4294.5	4290.1	4298.8	4282.6	4282.6	4269.7	4268.6	4249.2	4215.7	4190.9
10°	4405.5	4418.5	4414.2	4427.1	4414.2	4418.5	4405.5	4405.5	4379.7	4332.2	4300.9
12.5°	4581.3	4597.5	4585.6	4584.6	4579.2	4587.8	4577.0	4574.9	4551.1	4486.4	4443.3
15°	4816.4	4833.7	4808.9	4806.7	4776.5	4773.3	4773.3	4770.1	4755.0	4677.3	4606.1
17.5°	5087.1	5092.5	5071.0	5036.4	4997.6	4972.8	4969.6	4978.2	4978.2	4887.6	4774.4
20°	5352.4	5362.1	5344.9	5306.1	5256.5	5219.8	5193.9	5211.2	5210.1	5102.2	4941.5
22.5°	5641.5	5664.1	5638.2	5588.6	5530.4	5489.4	5444.1	5459.2	5460.3	5327.6	5105.5
25°	6015.7	5995.2	5979.0	5908.9	5825.9	5783.8	5741.8	5756.9	5752.6	5570.3	5274.8
27.5°	6346.8	6351.1	6329.5	6255.1	6159.1	6066.4	6064.2	6073.9	6057.8	5822.7	5434.4
30°	6731.8	6734.0	6703.8	6636.9	6532.3	6412.6	6384.5	6400.7	6366.2	6062.1	5602.6
32.5°	7114.7	7125.4	7092.0	7011.1	6927.0	6781.4	6725.3	6736.1	6649.8	6306.9	5776.3
35°	7450.1	7465.2	7454.4	7400.5	7308.8	7183.7	7116.8	7110.3	7003.6	6606.7	6006.0
37.5°	7791.9	7806.0	7794.1	7748.8	7712.1	7579.5	7543.9	7543.9	7358.4	6913.0	6298.3
40°	8143.5	8165.1	8151.1	8088.5	8057.2	7996.8	7911.6	7891.2	7690.6	7280.7	6774.9
42.5°	8470.3	8498.3	8554.4	8517.7	8454.1	8462.7	8291.3	8280.5	8133.8	7824.3	7373.5
45°	8934.0	8975.0	9069.9	9041.9	9028.9	8981.5	8777.7	8767.9	8711.9	8555.5	8116.6
47.5°	9439.8	9495.9	9667.4	9672.8	9811.9	9722.4	9445.2	9411.8	9424.7	9431.2	9023.5
50°	9905.7	9967.2	10248.7	10381.3	10709.2	10728.6	10285.4	10255.2	10305.8	10454.7	10080.4
52.5°	10277.8	10355.5	10707.0	11116.9	11678.7	11838.3	11319.6	11297.0	11334.7	11591.4	11275.4
55°	10550.7	10634.8	11017.6	11763.9	12661.2	12942.7	12510.2	12488.7	12512.4	12839.2	12574.9
57.5°	10614.3	10634.8	11190.2	12199.6	13490.6	14166.8	13967.2	13924.1	13807.6	14092.3	14009.3
60°	10315.6	10397.5	11047.8	12352.8	14132.3	15373.6	15490.0	15436.1	15109.3	15342.3	15275.4
62.5°	9709.5	9856.1	10516.1	12119.8	14383.5	16359.3	16983.7	16919.0	16356.1	16507.0	16185.7
65°	8719.4	8782.0	9475.4	11316.4	14064.3	16990.2	18315.6	18283.3	17574.7	17338.5	16353.9
67.5°	6948.6	7066.1	7655.0	9637.2	12758.3	16915.8	19345.6	19342.3	18370.6	17647.0	15757.5
69°	5489.4	5611.3	6172.1	7938.6	11289.4	16235.3	19518.1	19555.9	18595.0	17459.3	14905.5
70°	4376.4	4517.7	4902.7	6686.5	9985.5	15338.0	19374.7	19442.6	18551.8	17149.8	14119.3
72.5°	1862.5	1976.8	2250.8	3446.8	6085.8	11453.3	17714.9	17971.6	17552.1	15696.0	11669.0
75°	813.2	848.8	972.8	1405.2	2701.6	6233.5	13877.7	14352.3	15008.0	13267.3	8692.5
77.5°	595.3	610.4	678.4	825.0	1212.2	2354.3	8924.3	9200.4	10823.5	9654.5	5331.9
80°	460.5	471.3	524.1	606.1	791.6	952.3	4070.1	4307.4	6085.8	4958.8	2220.6
82.5°	366.7	374.2	410.9	446.5	546.8	577.0	1351.3	1499.1	2246.5	1369.7	587.8
85°	340.8	349.4	362.4	325.7	350.5	338.6	584.5	611.5	678.4	538.2	245.9
87.5°	154.2	182.3	359.1	253.4	186.6	148.8	239.4	250.2	281.5	282.6	108.9
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°	4092.8	4092.8	4092.8	4092.8	4092.8	4092.8	4092.8	4092.8	4092.8	4092.8	4092.8
2.5°	4102.5	4099.3	4104.7	4091.7	4107.9	4106.8	4101.4	4103.6	4114.4	4113.3	4114.4
5°	4127.3	4125.1	4131.6	4121.9	4141.3	4147.8	4148.9	4158.6	4170.4	4173.7	4173.7
7.5°	4189.9	4189.9	4193.1	4180.1	4193.1	4192.0	4186.6	4196.3	4208.2	4209.3	4208.2
10°	4297.7	4298.8	4293.4	4260.0	4249.2	4220.0	4193.1	4194.2	4209.3	4221.1	4224.4
12.5°	4433.6	4429.3	4405.5	4344.1	4298.8	4239.5	4211.4	4210.3	4225.4	4235.1	4238.4
15°	4588.9	4577.0	4515.5	4415.3	4335.4	4277.2	4231.9	4221.1	4212.5	4201.7	4202.8
17.5°	4735.6	4708.6	4606.1	4467.0	4382.9	4305.2	4217.9	4147.8	4099.3	4071.2	4062.6
20°	4884.4	4831.5	4683.8	4515.5	4408.8	4267.5	4099.3	3956.9	3868.5	3827.5	3819.9
22.5°	5020.3	4935.1	4756.0	4566.2	4388.3	4140.2	3876.0	3669.0	3546.0	3491.0	3495.3
25°	5152.9	5034.3	4831.5	4601.8	4284.8	3915.9	3565.4	3310.9	3168.5	3107.1	3104.9
27.5°	5269.4	5134.6	4913.5	4572.7	4091.7	3596.7	3197.7	2949.6	2831.0	2778.1	2769.5
30°	5403.1	5260.8	5022.4	4461.6	3809.2	3227.9	2838.5	2663.8	2579.7	2526.9	2517.1
32.5°	5566.0	5432.2	5111.9	4260.0	3447.9	2842.8	2558.1	2436.3	2359.7	2300.4	2289.6
35°	5803.2	5658.7	5134.6	3970.9	3051.0	2538.7	2352.1	2227.0	2123.5	2046.9	2039.4
37.5°	6100.9	5942.4	5082.8	3596.7	2666.0	2341.4	2180.7	2026.4	1891.6	1783.8	1766.5
40°	6530.1	6290.7	4939.4	3165.3	2382.3	2189.3	2013.5	1837.7	1670.5	1544.4	1519.6
42.5°	7045.6	6699.4	4719.4	2736.1	2174.2	2035.1	1847.4	1629.6	1470.0	1380.4	1367.5
45°	7701.3	7124.4	4414.2	2360.8	1969.3	1880.8	1668.4	1467.8	1368.6	1302.8	1292.0
47.5°	8449.8	7601.0	4093.9	2055.6	1795.7	1736.3	1525.0	1395.5	1316.8	1265.0	1255.3
50°	9369.7	8139.2	3754.1	1805.4	1620.9	1562.7	1457.0	1355.6	1293.1	1253.2	1243.5
52.5°	10407.2	8746.4	3509.3	1608.0	1476.4	1434.4	1421.4	1334.1	1283.4	1253.2	1243.5
55°	11524.5	9364.3	3245.1	1441.9	1351.3	1363.2	1397.7	1336.2	1301.7	1265.0	1251.0
57.5°	12642.9	10002.8	2950.7	1301.7	1252.1	1310.3	1381.5	1340.5	1311.4	1275.8	1262.9
60°	13527.2	10407.2	2494.5	1184.2	1173.4	1252.1	1342.7	1308.2	1270.4	1271.5	1269.4
62.5°	13940.3	10385.7	1990.9	1079.5	1094.6	1173.4	1280.1	1257.5	1226.2	1268.3	1271.5
65°	13708.4	9868.0	1549.8	984.6	1010.5	1091.4	1215.4	1232.7	1243.5	1324.4	1335.1
67.5°	12735.6	8860.7	1200.3	901.6	934.0	1035.3	1221.9	1342.7	1356.7	1441.9	1440.8
69°	11729.4	7916.0	1042.9	858.5	896.2	1049.3	1306.0	1412.8	1359.9	1450.5	1437.6
70°	10886.1	7168.6	958.8	829.3	879.0	1074.2	1362.1	1411.7	1343.8	1421.4	1399.9
72.5°	8384.0	5157.2	813.2	775.4	820.7	1027.8	1378.3	1380.4	1306.0	1321.1	1284.5
75°	5750.4	3259.1	709.6	702.1	732.3	926.4	1326.5	1319.0	1207.9	1186.3	1156.1
77.5°	3170.7	1655.4	602.9	632.0	652.5	820.7	1205.7	1194.9	1103.3	1058.0	1047.2
80°	1223.0	724.7	509.0	561.9	574.8	710.7	1056.9	1047.2	970.6	912.4	896.2
82.5°	461.6	379.6	420.6	486.4	482.1	586.7	895.1	889.7	815.3	730.1	704.2
85°	213.5	227.6	333.2	401.2	369.9	434.6	716.1	725.8	635.2	533.8	533.8
87.5°	90.6	127.3	236.2	303.0	249.1	293.3	525.2	501.5	460.5	319.2	299.8
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)