

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: P318439

Luminaire Tested: **GAN-SA5B-750-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318439
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-SA5B-750-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28567 lumens
Efficiency: N/A
Efficacy: 136.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

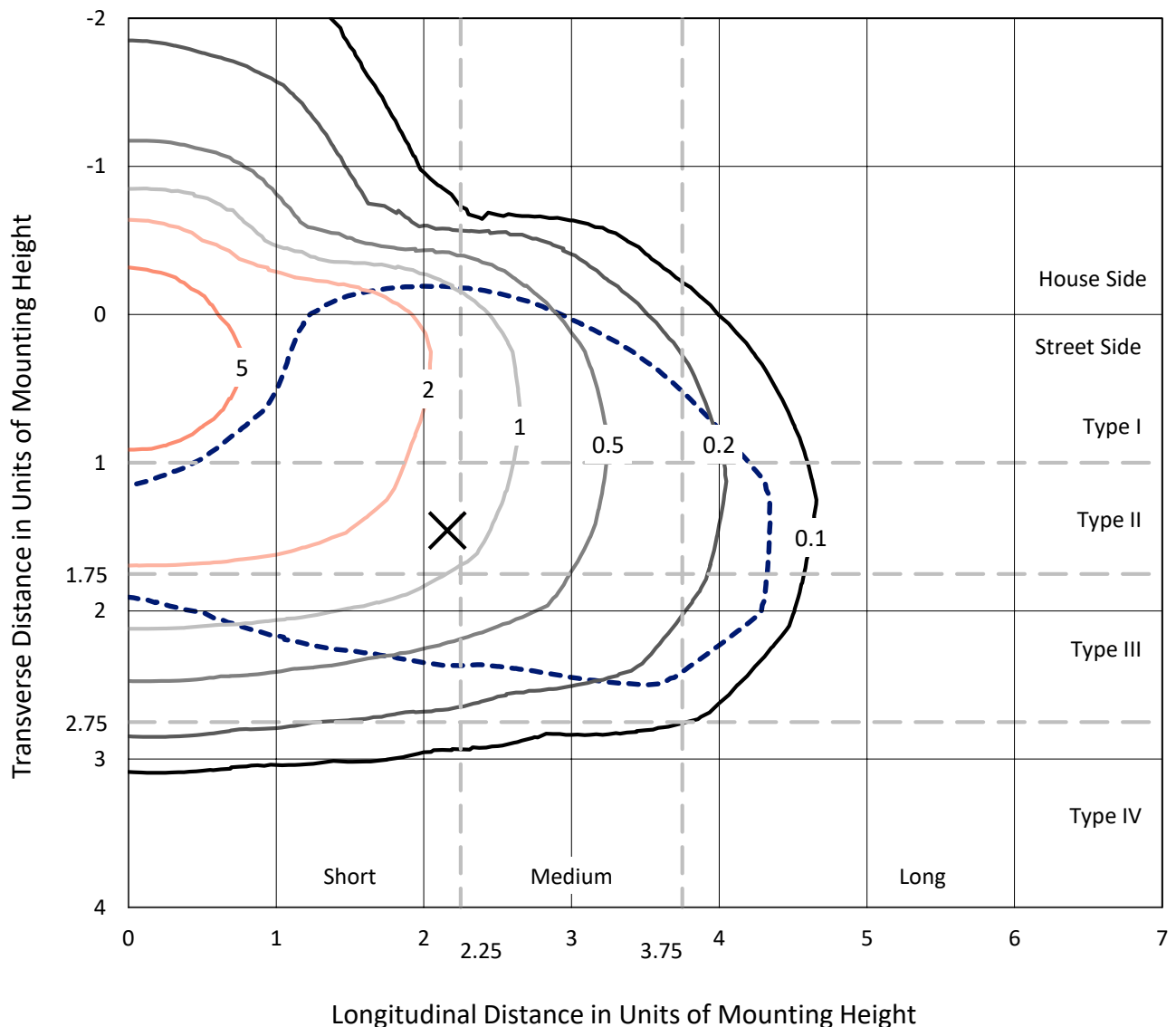
Input Watts (W): 210
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

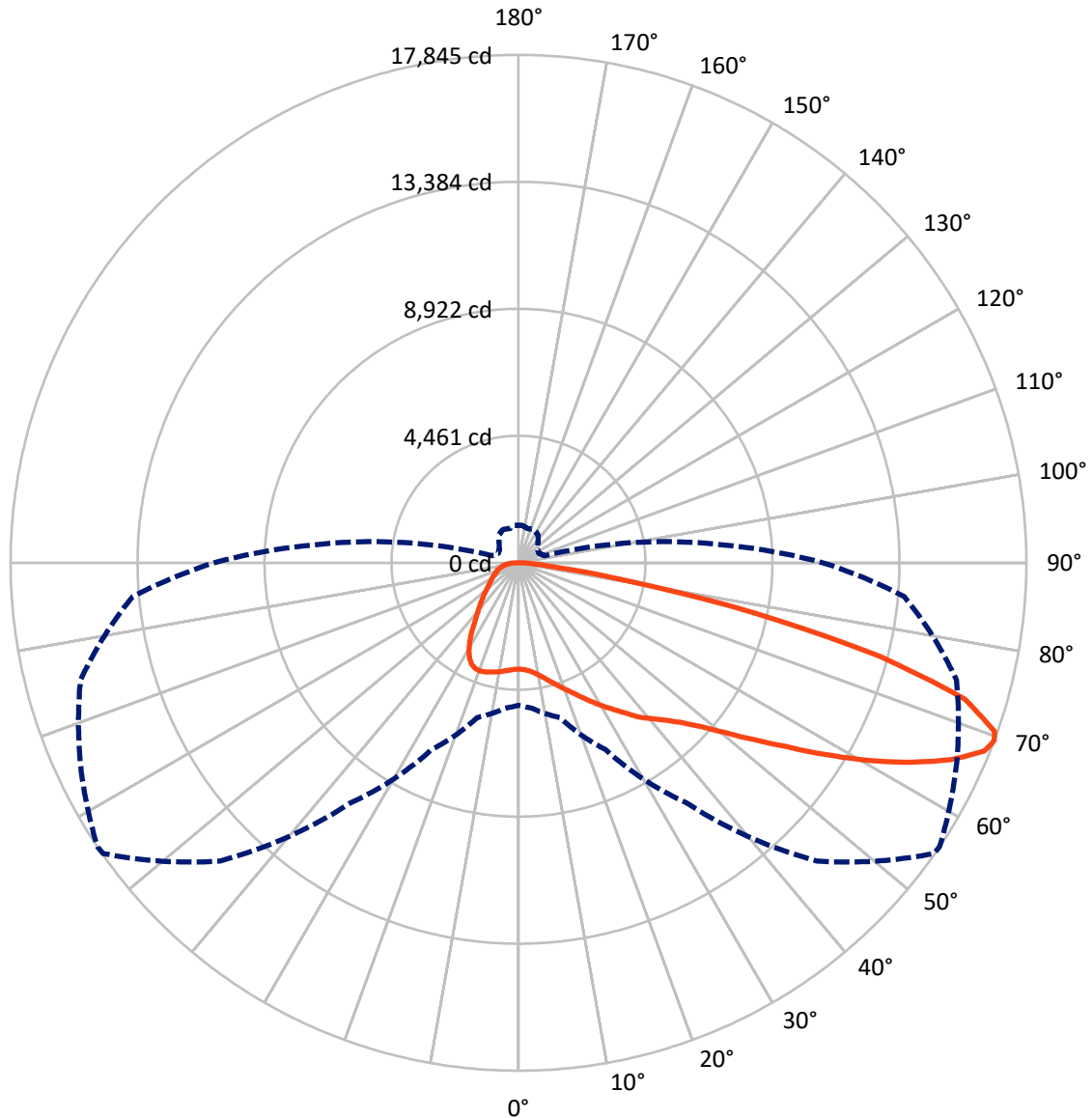
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 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	6361.8	0.0	6361.8
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	22205.2	0.0	22205.2
	% Fixture	77.7	0.0	77.7
Total	Lumens	28567.0	0.0	28567.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	366.8	1.3
10°-20°	1179.5	4.1
20°-30°	2059.0	7.2
30°-40°	2957.6	10.4
40°-50°	4093.2	14.3
50°-60°	5997.1	21.0
60°-70°	7311.6	25.6
70°-80°	4042.3	14.2
80°-90°	559.9	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°	28567.0	100.0
0°-180°	28567.0	100.0

Coefficient of Utilization

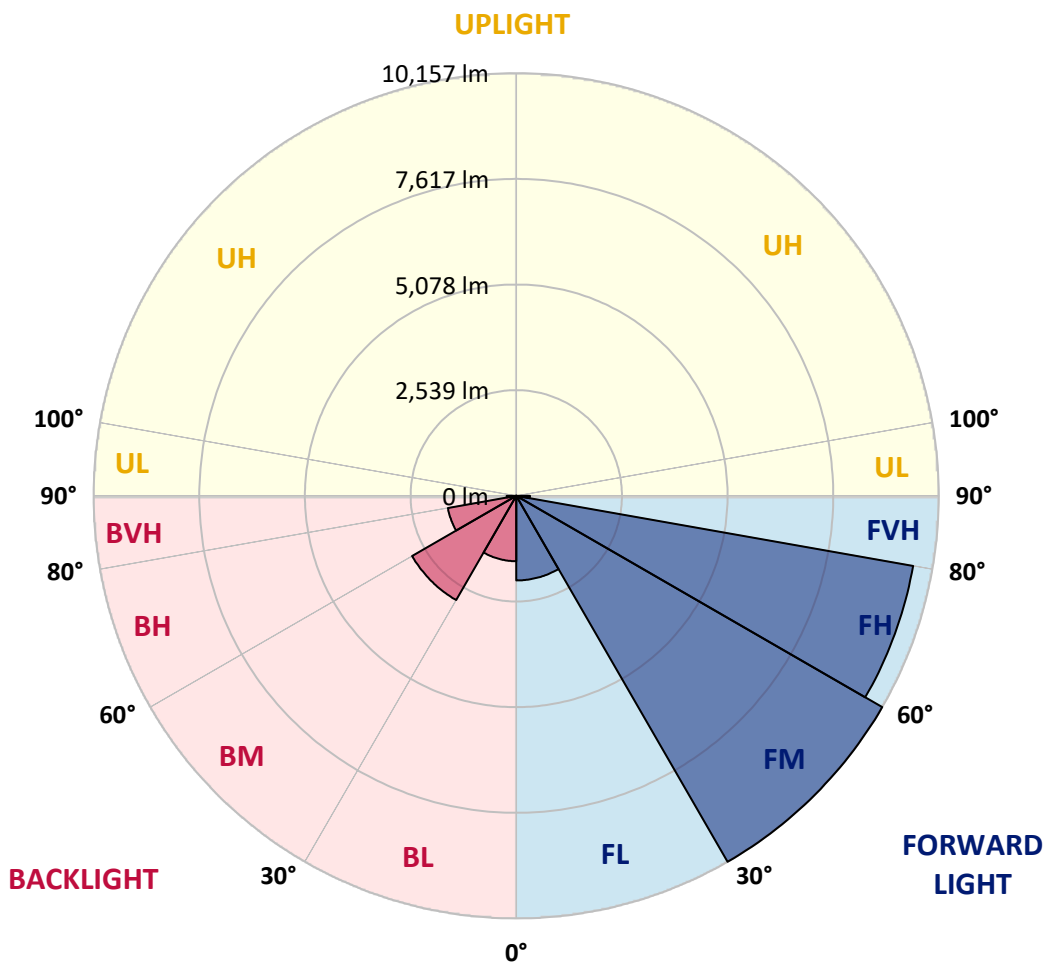


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2033.1	7.1			
FM (30°-60°)	10156.6	35.6			
FH (60°-80°)	9685.6	33.9			G4/12000
FVH (80°-90°)	329.8	1.2			G3/500
BL (0°-30°)	1572.1	5.5	B3/2500		
BM (30°-60°)	2891.3	10.1	B3/5000		
BH (60°-80°)	1668.3	5.8	B3/2500		G3/2500
BVH (80°-90°)	230.1	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°	3734.7	3734.7	3734.7	3734.7	3734.7	3734.7	3734.7	3734.7	3734.7	3734.7	3734.7
2.5°	3758.3	3762.3	3759.3	3767.2	3758.3	3764.2	3759.3	3759.3	3756.4	3747.5	3737.7
5°	3817.4	3825.2	3820.3	3828.2	3817.4	3819.3	3810.5	3810.5	3801.6	3782.9	3763.2
7.5°	3909.9	3918.7	3914.8	3922.7	3907.9	3907.9	3896.1	3895.1	3877.4	3846.9	3824.3
10°	4020.1	4031.9	4028.0	4039.8	4028.0	4031.9	4020.1	4020.1	3996.5	3953.2	3924.6
12.5°	4180.5	4195.3	4184.4	4183.5	4178.5	4186.4	4176.6	4174.6	4153.0	4093.9	4054.5
15°	4395.0	4410.8	4388.2	4386.2	4358.6	4355.7	4355.7	4352.7	4339.0	4268.1	4203.1
17.5°	4642.1	4647.0	4627.3	4595.8	4560.4	4537.7	4534.8	4542.7	4542.7	4460.0	4356.7
20°	4884.1	4893.0	4877.3	4841.8	4796.6	4763.1	4739.5	4755.2	4754.2	4655.8	4509.2
22.5°	5147.9	5168.6	5144.9	5099.7	5046.5	5009.1	4967.8	4981.6	4982.6	4861.5	4658.8
25°	5489.4	5470.7	5455.9	5391.9	5316.2	5277.8	5239.4	5253.2	5249.3	5082.9	4813.3
27.5°	5791.5	5795.4	5775.8	5707.8	5620.3	5535.6	5533.7	5542.5	5527.8	5313.2	4958.9
30°	6142.8	6144.8	6117.2	6056.2	5960.8	5851.5	5825.9	5840.7	5809.2	5531.7	5112.5
32.5°	6492.2	6502.0	6471.5	6397.7	6321.0	6188.1	6136.9	6146.8	6068.0	5755.1	5270.9
35°	6798.2	6812.0	6802.2	6753.0	6669.3	6555.2	6494.2	6488.3	6390.8	6028.7	5480.5
37.5°	7110.2	7123.0	7112.2	7070.8	7037.4	6916.3	6883.9	6883.9	6714.6	6308.2	5747.2
40°	7431.0	7450.7	7437.9	7380.8	7352.3	7297.2	7219.4	7200.7	7017.7	6643.7	6182.2
42.5°	7729.2	7754.8	7806.0	7772.5	7714.5	7722.3	7565.9	7556.0	7422.2	7139.7	6728.4
45°	8152.4	8189.8	8276.4	8250.8	8239.0	8195.7	8009.7	8000.8	7949.7	7807.0	7406.4
47.5°	8613.9	8665.1	8821.6	8826.5	8953.5	8871.8	8618.9	8588.3	8600.2	8606.1	8234.1
50°	9039.1	9095.2	9352.0	9473.1	9772.2	9789.9	9385.5	9357.9	9404.2	9540.0	9198.5
52.5°	9378.6	9449.4	9770.3	10144.2	10656.9	10802.6	10329.2	10308.6	10343.0	10577.2	10288.9
55°	9627.6	9704.3	10053.7	10734.7	11553.5	11810.3	11415.7	11396.0	11417.7	11715.9	11474.7
57.5°	9685.6	9704.3	10211.1	11132.3	12310.3	12927.3	12745.2	12705.9	12599.6	12859.4	12783.6
60°	9413.0	9487.8	10081.2	11272.0	12895.8	14028.5	14134.8	14085.6	13787.4	14000.0	13939.0
62.5°	8860.0	8993.8	9596.1	11059.5	13125.1	14928.0	15497.8	15438.7	14925.0	15062.8	14769.6
65°	7956.5	8013.6	8646.4	10326.3	12833.8	15503.7	16713.2	16683.7	16037.1	15821.6	14923.1
67.5°	6340.6	6447.9	6985.2	8794.0	11642.0	15435.8	17653.0	17650.0	16763.4	16103.0	14378.9
69°	5009.1	5120.3	5632.1	7244.0	10301.7	14814.8	17810.5	17844.9	16968.1	15931.8	13601.4
70°	3993.5	4122.4	4473.8	6101.5	9111.9	13996.0	17679.6	17741.6	16928.7	15649.3	12884.0
72.5°	1699.6	1803.9	2053.8	3145.2	5553.3	10451.3	16165.0	16399.2	16016.4	14322.8	10648.1
75°	742.0	774.5	887.7	1282.3	2465.2	5688.2	12663.6	13096.6	13694.9	12106.5	7931.9
77.5°	543.2	557.0	619.0	752.8	1106.1	2148.3	8143.5	8395.5	9876.5	8809.8	4865.4
80°	420.2	430.1	478.3	553.1	722.3	869.0	3714.0	3930.5	5553.3	4524.9	2026.3
82.5°	334.6	341.5	374.9	407.4	498.9	526.5	1233.1	1367.9	2049.9	1249.8	536.3
85°	311.0	318.9	330.7	297.2	319.8	309.0	533.4	558.0	619.0	491.1	224.4
87.5°	140.7	166.3	327.7	231.3	170.3	135.8	218.5	228.3	256.9	257.8	99.4
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°	3734.7	3734.7	3734.7	3734.7	3734.7	3734.7	3734.7	3734.7	3734.7	3734.7	3734.7
2.5°	3743.6	3740.6	3745.5	3733.7	3748.5	3747.5	3742.6	3744.5	3754.4	3753.4	3754.4
5°	3766.2	3764.2	3770.1	3761.3	3779.0	3784.9	3785.9	3794.7	3805.6	3808.5	3808.5
7.5°	3823.3	3823.3	3826.2	3814.4	3826.2	3825.2	3820.3	3829.2	3840.0	3841.0	3840.0
10°	3921.7	3922.7	3917.8	3887.2	3877.4	3850.8	3826.2	3827.2	3841.0	3851.8	3854.8
12.5°	4045.7	4041.7	4020.1	3964.0	3922.7	3868.5	3843.0	3842.0	3855.8	3864.6	3867.6
15°	4187.4	4176.6	4120.5	4029.0	3956.1	3903.0	3861.7	3851.8	3843.9	3834.1	3835.1
17.5°	4321.2	4296.6	4203.1	4076.2	3999.4	3928.6	3848.9	3784.9	3740.6	3715.0	3707.2
20°	4457.0	4408.8	4274.0	4120.5	4023.1	3894.1	3740.6	3610.7	3530.0	3492.6	3485.7
22.5°	4581.0	4503.3	4339.9	4166.7	4004.4	3778.0	3536.9	3347.9	3235.8	3185.6	3189.5
25°	4702.1	4593.8	4408.8	4199.2	3909.9	3573.3	3253.5	3021.2	2891.3	2835.2	2833.3
27.5°	4808.4	4685.4	4483.6	4172.6	3733.7	3282.0	2917.9	2691.5	2583.3	2535.1	2527.2
30°	4930.4	4800.5	4583.0	4071.3	3475.9	2945.4	2590.2	2430.8	2354.0	2305.8	2296.9
32.5°	5079.0	4957.0	4664.7	3887.2	3146.2	2594.1	2334.3	2223.1	2153.2	2099.1	2089.3
35°	5295.5	5163.6	4685.4	3623.5	2784.1	2316.6	2146.3	2032.2	1937.7	1867.8	1861.0
37.5°	5567.1	5422.5	4638.1	3282.0	2432.7	2136.5	1989.9	1849.1	1726.1	1627.7	1612.0
40°	5958.8	5740.3	4507.2	2888.4	2173.9	1997.7	1837.3	1676.9	1524.4	1409.2	1386.6
42.5°	6429.2	6113.3	4306.5	2496.7	1984.0	1857.0	1685.8	1487.0	1341.3	1259.7	1247.9
45°	7027.5	6501.0	4028.0	2154.2	1797.0	1716.3	1522.4	1339.4	1248.8	1188.8	1179.0
47.5°	7710.5	6936.0	3735.7	1875.7	1638.5	1584.4	1391.5	1273.4	1201.6	1154.4	1145.5
50°	8550.0	7427.1	3425.7	1647.4	1479.1	1426.0	1329.5	1237.0	1180.0	1143.5	1134.7
52.5°	9496.7	7981.1	3202.3	1467.3	1347.2	1308.9	1297.1	1217.3	1171.1	1143.5	1134.7
55°	10516.2	8545.0	2961.2	1315.8	1233.1	1243.9	1275.4	1219.3	1187.8	1154.4	1141.6
57.5°	11536.7	9127.6	2692.5	1187.8	1142.6	1195.7	1260.6	1223.3	1196.7	1164.2	1152.4
60°	12343.7	9496.7	2276.3	1080.6	1070.7	1142.6	1225.2	1193.7	1159.3	1160.3	1158.3
62.5°	12720.6	9477.0	1816.7	985.1	998.9	1070.7	1168.1	1147.5	1118.9	1157.3	1160.3
65°	12509.0	9004.6	1414.2	898.5	922.1	995.9	1109.1	1124.8	1134.7	1208.5	1218.3
67.5°	11621.4	8085.5	1095.3	822.7	852.2	944.7	1115.0	1225.2	1238.0	1315.8	1314.8
69°	10703.2	7223.4	951.6	783.4	817.8	957.5	1191.8	1289.2	1241.0	1323.6	1311.8
70°	9933.6	6541.4	874.9	756.8	802.1	980.2	1242.9	1288.2	1226.2	1297.1	1277.4
72.5°	7650.5	4706.0	742.0	707.6	748.9	937.9	1257.7	1259.7	1191.8	1205.5	1172.1
75°	5247.3	2974.0	647.5	640.7	668.2	845.4	1210.5	1203.6	1102.2	1082.5	1055.0
77.5°	2893.3	1510.6	550.1	576.7	595.4	748.9	1100.2	1090.4	1006.7	965.4	955.6
80°	1116.0	661.3	464.5	512.7	524.5	648.5	964.4	955.6	885.7	832.6	817.8
82.5°	421.2	346.4	383.8	443.8	439.9	535.4	816.8	811.9	744.0	666.2	642.6
85°	194.9	207.6	304.1	366.1	337.6	396.6	653.5	662.3	579.6	487.1	487.1
87.5°	82.7	116.1	215.5	276.5	227.3	267.7	479.3	457.6	420.2	291.3	273.6
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)