

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: P318351

Luminaire Tested: **GAN-SA7A-730-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318351
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-SA7A-730-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30025 lumens
Efficiency: N/A
Efficacy: 132.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

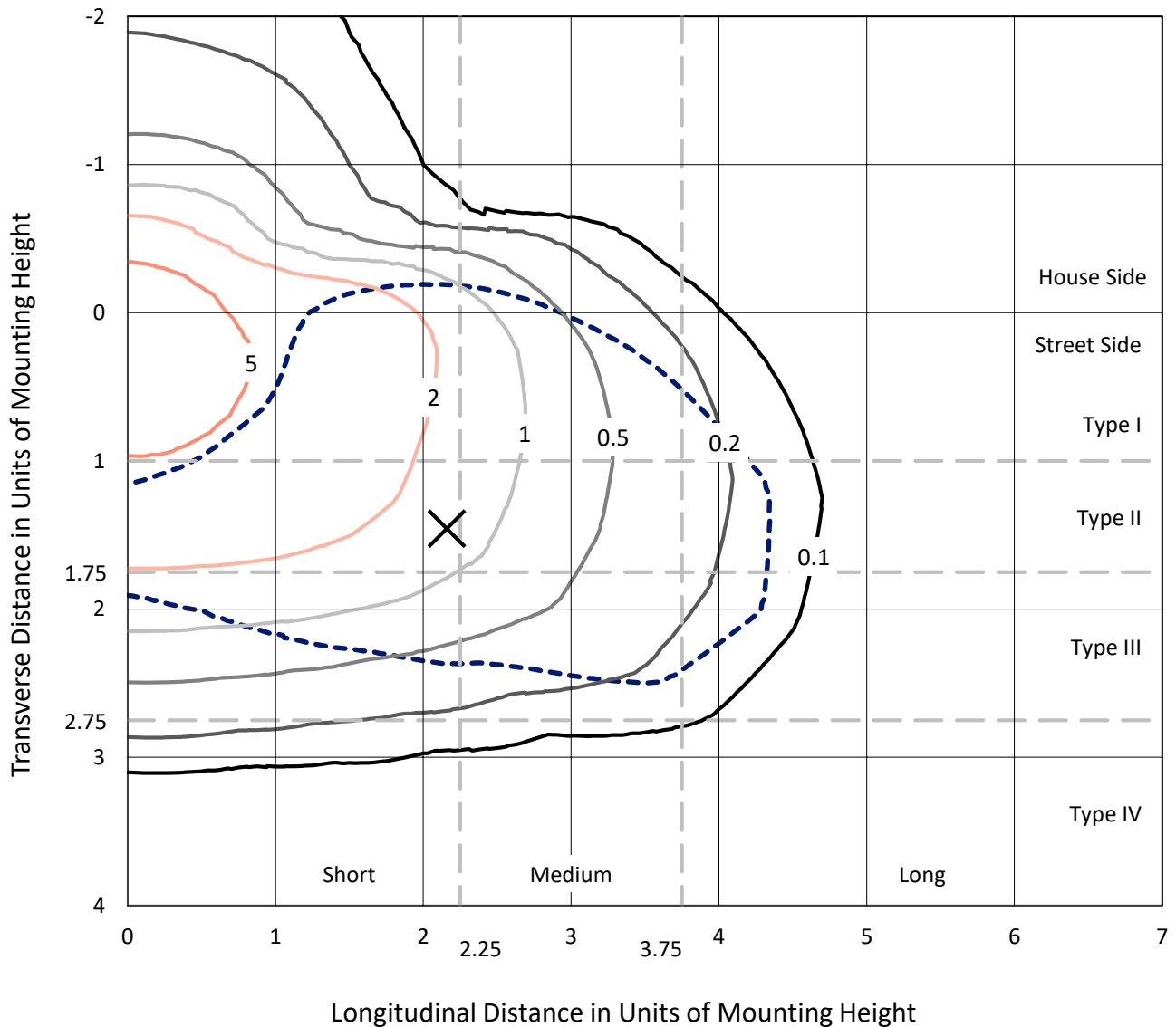
Input Watts (W): 226
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

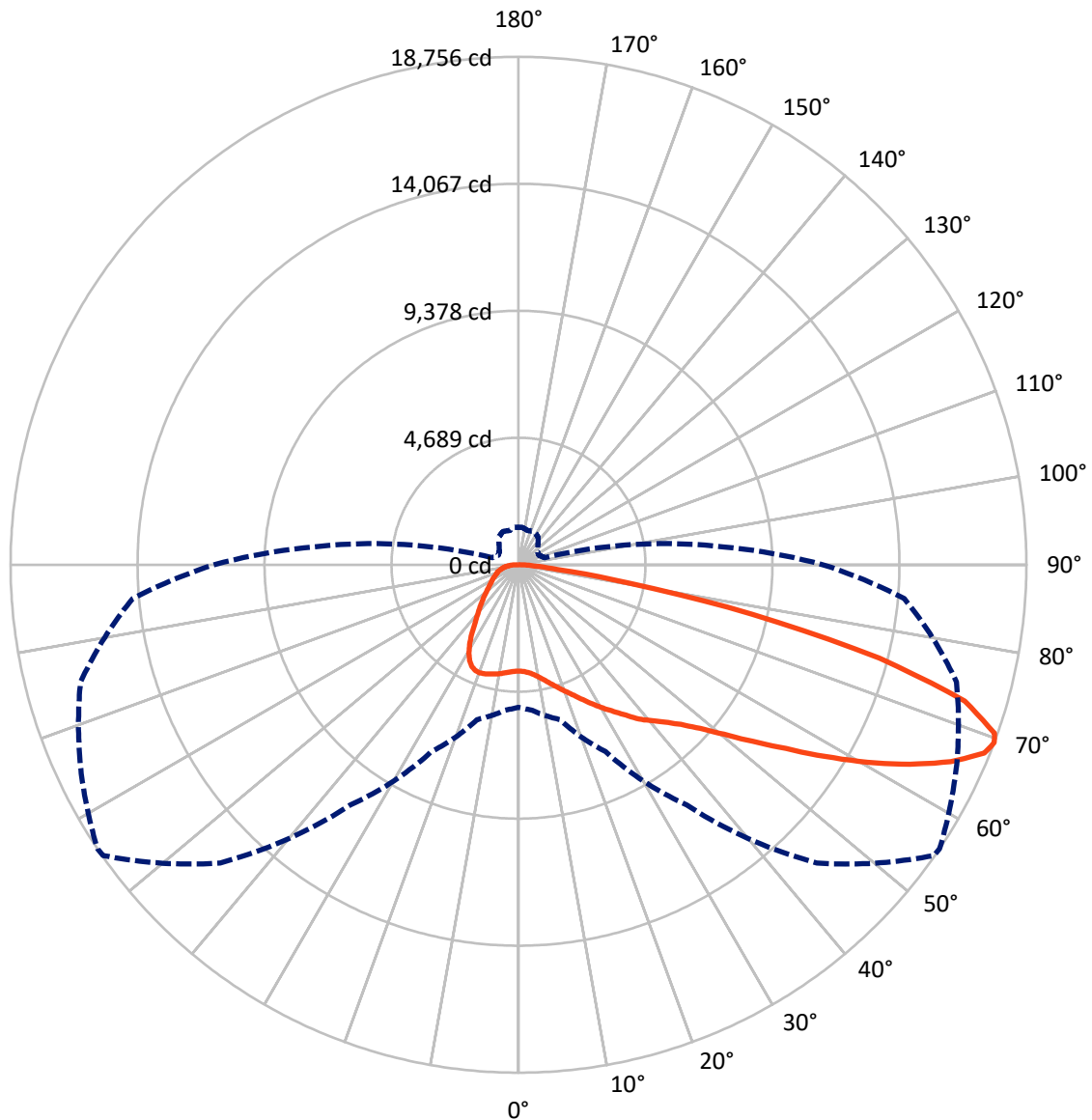
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 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	6686.5	0.0	6686.5
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	23338.5	0.0	23338.5
	% Fixture	77.7	0.0	77.7
Total	Lumens	30025.0	0.0	30025.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	385.5	1.3
10°-20°	1239.7	4.1
20°-30°	2164.0	7.2
30°-40°	3108.6	10.4
40°-50°	4302.1	14.3
50°-60°	6303.2	21.0
60°-70°	7684.8	25.6
70°-80°	4248.6	14.2
80°-90°	588.4	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°	30025.0	100.0
0°-180°	30025.0	100.0

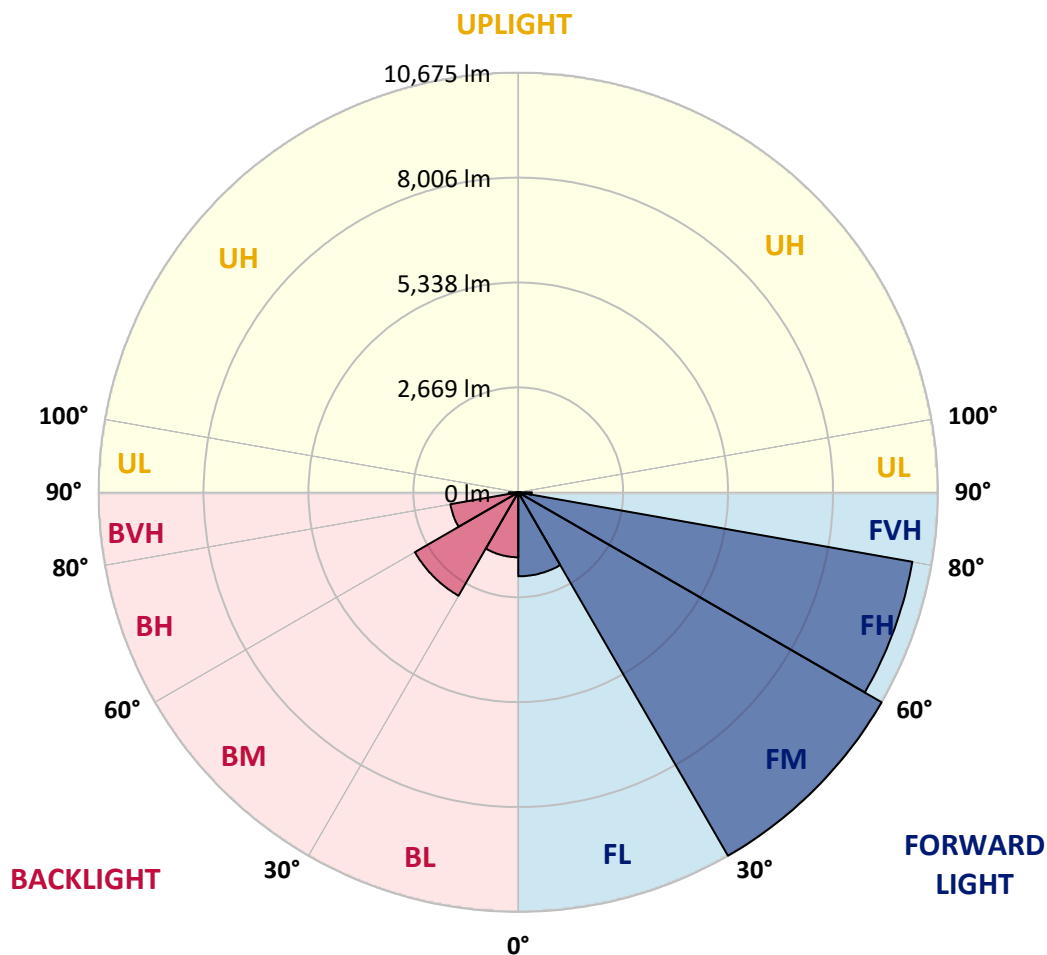


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2136.9	7.1			
FM (30°-60°)	10675.0	35.6			
FH (60°-80°)	10180.0	33.9			G4/12000
FVH (80°-90°)	346.6	1.2			G3/500
BL (0°-30°)	1652.4	5.5	B3/2500		
BM (30°-60°)	3038.9	10.1	B3/5000		
BH (60°-80°)	1753.4	5.8	B3/2500		G3/2500
BVH (80°-90°)	241.8	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°	3925.3	3925.3	3925.3	3925.3	3925.3	3925.3	3925.3	3925.3	3925.3	3925.3	3925.3
2.5°	3950.1	3954.3	3951.2	3959.4	3950.1	3956.3	3951.2	3951.2	3948.1	3938.8	3928.4
5°	4012.2	4020.5	4015.3	4023.6	4012.2	4014.3	4005.0	4005.0	3995.7	3976.0	3955.3
7.5°	4109.4	4118.7	4114.6	4122.9	4107.4	4107.4	4094.9	4093.9	4075.3	4043.2	4019.4
10°	4225.3	4237.7	4233.5	4246.0	4233.5	4237.7	4225.3	4225.3	4200.5	4154.9	4124.9
12.5°	4393.9	4409.4	4398.0	4397.0	4391.8	4400.1	4389.7	4387.7	4364.9	4302.9	4261.5
15°	4619.4	4635.9	4612.1	4610.0	4581.1	4578.0	4578.0	4574.9	4560.4	4485.9	4417.7
17.5°	4879.0	4884.1	4863.5	4830.4	4793.1	4769.3	4766.2	4774.5	4774.5	4687.6	4579.0
20°	5133.4	5142.7	5126.2	5088.9	5041.4	5006.2	4981.4	4997.9	4996.9	4893.5	4739.3
22.5°	5410.6	5432.3	5407.5	5359.9	5304.1	5264.8	5221.3	5235.8	5236.9	5109.6	4896.6
25°	5769.5	5749.9	5734.4	5667.1	5587.5	5547.2	5506.8	5521.3	5517.2	5342.4	5059.0
27.5°	6087.1	6091.2	6070.5	5999.2	5907.1	5818.2	5816.1	5825.4	5809.9	5584.4	5212.0
30°	6456.3	6458.4	6429.5	6365.3	6265.0	6150.2	6123.3	6138.8	6105.7	5814.0	5373.4
32.5°	6823.5	6833.9	6801.8	6724.2	6643.6	6503.9	6450.1	6460.5	6377.7	6048.8	5539.9
35°	7145.2	7159.7	7149.4	7097.6	7009.7	6889.7	6825.6	6819.4	6717.0	6336.4	5760.2
37.5°	7473.1	7486.5	7475.2	7431.7	7396.6	7269.3	7235.2	7235.2	7057.3	6630.1	6040.5
40°	7810.3	7831.0	7817.5	7757.5	7727.5	7669.6	7587.9	7568.3	7375.9	6982.8	6497.7
42.5°	8123.7	8150.6	8204.4	8169.2	8108.2	8116.5	7952.0	7941.7	7801.0	7504.1	7071.8
45°	8568.5	8607.8	8698.8	8671.9	8659.5	8614.0	8418.5	8409.2	8355.4	8205.4	7784.4
47.5°	9053.6	9107.4	9271.8	9277.0	9410.4	9324.6	9058.7	9026.7	9039.1	9045.3	8654.3
50°	9500.4	9559.4	9829.3	9956.5	10271.0	10289.6	9864.5	9835.5	9884.1	10026.9	9668.0
52.5°	9857.3	9931.7	10268.9	10662.0	11200.9	11353.9	10856.4	10834.7	10870.9	11117.1	10814.0
55°	10118.9	10199.6	10566.8	11282.6	12143.1	12413.1	11998.3	11977.6	12000.4	12313.8	12060.4
57.5°	10180.0	10199.6	10732.3	11700.4	12938.5	13587.1	13395.7	13354.4	13242.6	13515.7	13436.1
60°	9893.5	9972.1	10595.8	11847.3	13554.0	14744.5	14856.2	14804.5	14491.1	14714.5	14650.4
62.5°	9312.2	9452.8	10085.8	11623.9	13795.0	15689.9	16288.8	16226.7	15686.8	15831.6	15523.4
65°	8362.6	8422.6	9087.7	10853.3	13488.8	16295.0	17566.2	17535.2	16855.6	16629.1	15684.7
67.5°	6664.2	6777.0	7341.7	9242.9	12236.2	16223.6	18554.0	18550.9	17618.9	16924.9	15112.7
69°	5264.8	5381.7	5919.5	7613.8	10827.5	15570.9	18719.5	18755.7	17834.1	16744.9	14295.6
70°	4197.3	4332.8	4702.1	6412.9	9576.9	14710.4	18581.9	18647.1	17792.7	16448.1	13541.6
72.5°	1786.3	1895.9	2158.7	3305.7	5836.8	10984.7	16990.1	17236.2	16833.9	15053.8	11191.5
75°	779.9	814.0	933.0	1347.7	2591.0	5978.5	13309.9	13765.0	14393.9	12724.4	8336.8
77.5°	571.0	585.4	650.6	791.3	1162.6	2258.0	8559.2	8823.9	10380.6	9259.4	5113.8
80°	441.7	452.0	502.7	581.3	759.2	913.3	3903.6	4131.2	5836.8	4755.9	2129.7
82.5°	351.7	358.9	394.1	428.2	524.4	553.4	1296.0	1437.7	2154.5	1313.6	563.7
85°	326.9	335.1	347.5	312.4	336.2	324.8	560.6	586.5	650.6	516.1	235.8
87.5°	147.9	174.8	344.4	243.1	178.9	142.7	229.6	240.0	270.0	271.0	104.5
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°	3925.3	3925.3	3925.3	3925.3	3925.3	3925.3	3925.3	3925.3	3925.3	3925.3	3925.3
2.5°	3934.6	3931.5	3936.7	3924.3	3939.8	3938.8	3933.6	3935.7	3946.0	3945.0	3946.0
5°	3958.4	3956.3	3962.6	3953.2	3971.9	3978.1	3979.1	3988.4	3999.8	4002.9	4002.9
7.5°	4018.4	4018.4	4021.5	4009.1	4021.5	4020.5	4015.3	4024.6	4036.0	4037.0	4036.0
10°	4121.8	4122.9	4117.7	4085.6	4075.3	4047.4	4021.5	4022.5	4037.0	4048.4	4051.5
12.5°	4252.2	4248.0	4225.3	4166.3	4122.9	4066.0	4039.1	4038.1	4052.5	4061.8	4065.0
15°	4401.1	4389.7	4330.8	4234.6	4158.0	4102.2	4058.7	4048.4	4040.1	4029.8	4030.8
17.5°	4541.8	4515.9	4417.7	4284.2	4203.6	4129.1	4045.3	3978.1	3931.5	3904.6	3896.4
20°	4684.5	4633.8	4492.1	4330.8	4228.4	4092.9	3931.5	3795.0	3710.2	3670.9	3663.6
22.5°	4814.8	4733.1	4561.4	4379.4	4208.7	3970.8	3717.4	3518.8	3400.9	3348.2	3352.3
25°	4942.1	4828.3	4633.8	4413.5	4109.4	3755.7	3419.5	3175.4	3038.9	2979.9	2977.9
27.5°	5053.8	4924.5	4712.4	4385.6	3924.3	3449.5	3066.8	2828.9	2715.1	2664.5	2656.2
30°	5182.0	5045.5	4816.9	4279.1	3653.3	3095.8	2722.4	2554.8	2474.1	2423.5	2414.1
32.5°	5338.2	5210.0	4902.8	4085.6	3306.8	2726.5	2453.5	2336.6	2263.1	2206.2	2195.9
35°	5565.8	5427.2	4924.5	3808.4	2926.1	2434.8	2255.9	2135.9	2036.6	1963.2	1955.9
37.5°	5851.3	5699.2	4874.8	3449.5	2556.9	2245.6	2091.4	1943.5	1814.2	1710.8	1694.2
40°	6262.9	6033.3	4737.3	3035.8	2284.9	2099.7	1931.1	1762.5	1602.2	1481.2	1457.4
42.5°	6757.3	6425.3	4526.3	2624.1	2085.2	1951.8	1771.8	1562.9	1409.8	1324.0	1311.5
45°	7386.2	6832.8	4233.5	2264.2	1888.7	1803.9	1600.1	1407.7	1312.6	1249.5	1239.1
47.5°	8104.0	7290.0	3926.4	1971.5	1722.2	1665.3	1462.6	1338.4	1262.9	1213.3	1204.0
50°	8986.3	7806.2	3600.5	1731.5	1554.6	1498.8	1397.4	1300.2	1240.2	1201.9	1192.6
52.5°	9981.4	8388.5	3365.7	1542.2	1416.0	1375.7	1363.3	1279.5	1230.9	1201.9	1192.6
55°	11052.9	8981.2	3112.3	1382.9	1296.0	1307.4	1340.5	1281.5	1248.4	1213.3	1199.8
57.5°	12125.6	9593.5	2830.0	1248.4	1200.9	1256.7	1325.0	1285.7	1257.8	1223.6	1211.2
60°	12973.7	9981.4	2392.4	1135.7	1125.4	1200.9	1287.8	1254.7	1218.5	1219.5	1217.4
62.5°	13369.9	9960.7	1909.4	1035.4	1049.9	1125.4	1227.8	1206.0	1176.0	1216.4	1219.5
65°	13147.5	9464.2	1486.3	944.4	969.2	1046.8	1165.7	1182.2	1192.6	1270.2	1280.5
67.5°	12214.5	8498.1	1151.2	864.7	895.7	993.0	1171.9	1287.8	1301.2	1382.9	1381.9
69°	11249.5	7592.0	1000.2	823.3	859.5	1006.4	1252.6	1355.0	1304.3	1391.2	1378.8
70°	10440.6	6875.3	919.5	795.4	843.0	1030.2	1306.4	1353.9	1288.8	1363.3	1342.6
72.5°	8041.0	4946.2	779.9	743.7	787.1	985.7	1321.9	1324.0	1252.6	1267.1	1231.9
75°	5515.1	3125.8	680.6	673.4	702.3	888.5	1272.2	1265.0	1158.5	1137.8	1108.8
77.5°	3041.0	1587.7	578.2	606.1	625.8	787.1	1156.4	1146.0	1058.1	1014.7	1004.3
80°	1172.9	695.1	488.2	538.9	551.3	681.6	1013.7	1004.3	930.9	875.1	859.5
82.5°	442.7	364.1	403.4	466.5	462.3	562.7	858.5	853.3	782.0	700.2	675.4
85°	204.8	218.2	319.6	384.8	354.8	416.8	686.8	696.1	609.2	512.0	512.0
87.5°	86.9	122.1	226.5	290.6	238.9	281.3	503.7	481.0	441.7	306.2	287.5
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)