

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: P267110

Luminaire Tested: **GAN-AF-07-LED-U-T3R-7027-800-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P267110
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P40129)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-07-LED-U-T3R-7027-800-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30216.9 lumens
Efficiency: N/A
Efficacy: 102.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 295
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: 28.75 FT

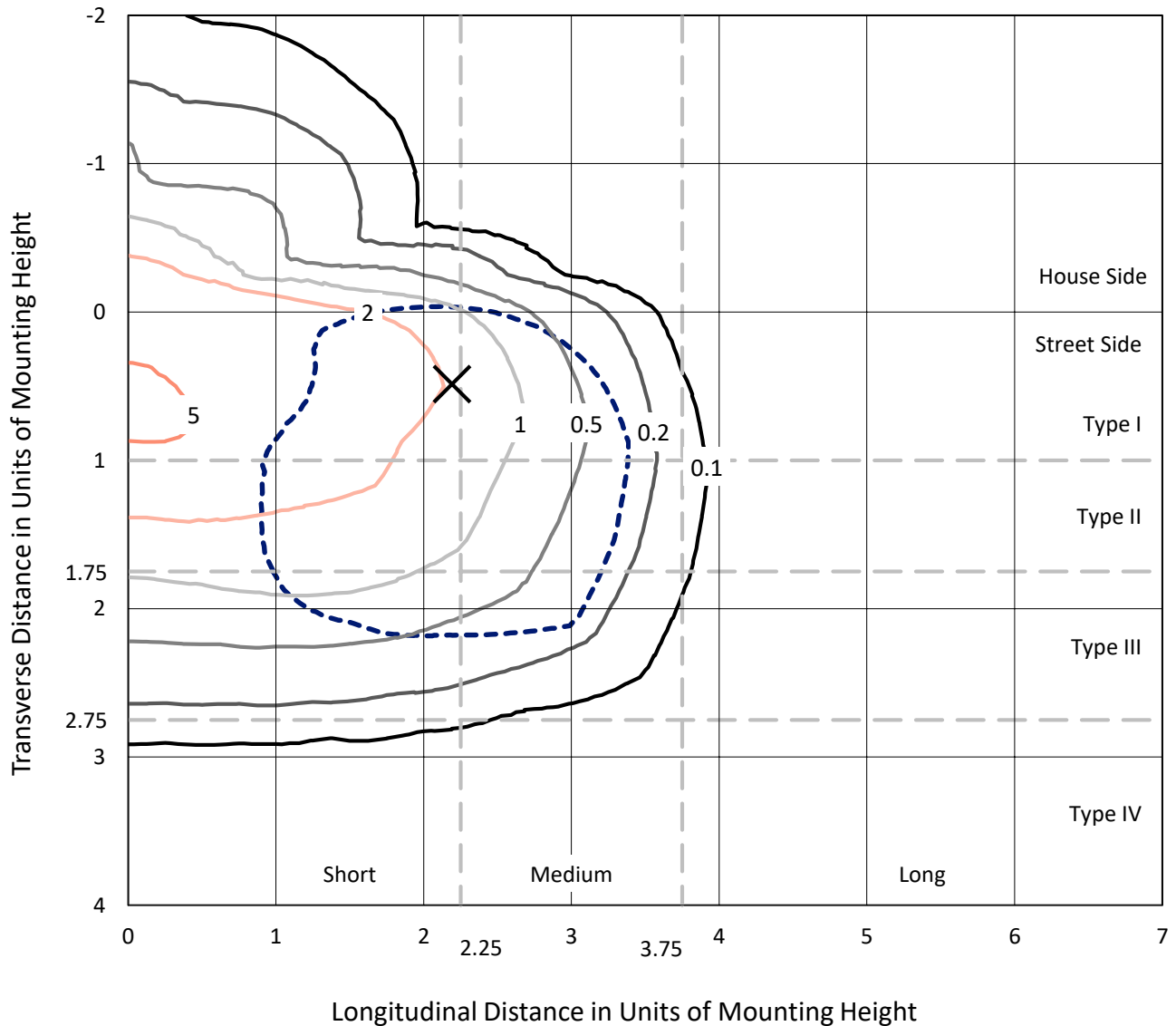


REPORT NUMBER: P267110

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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

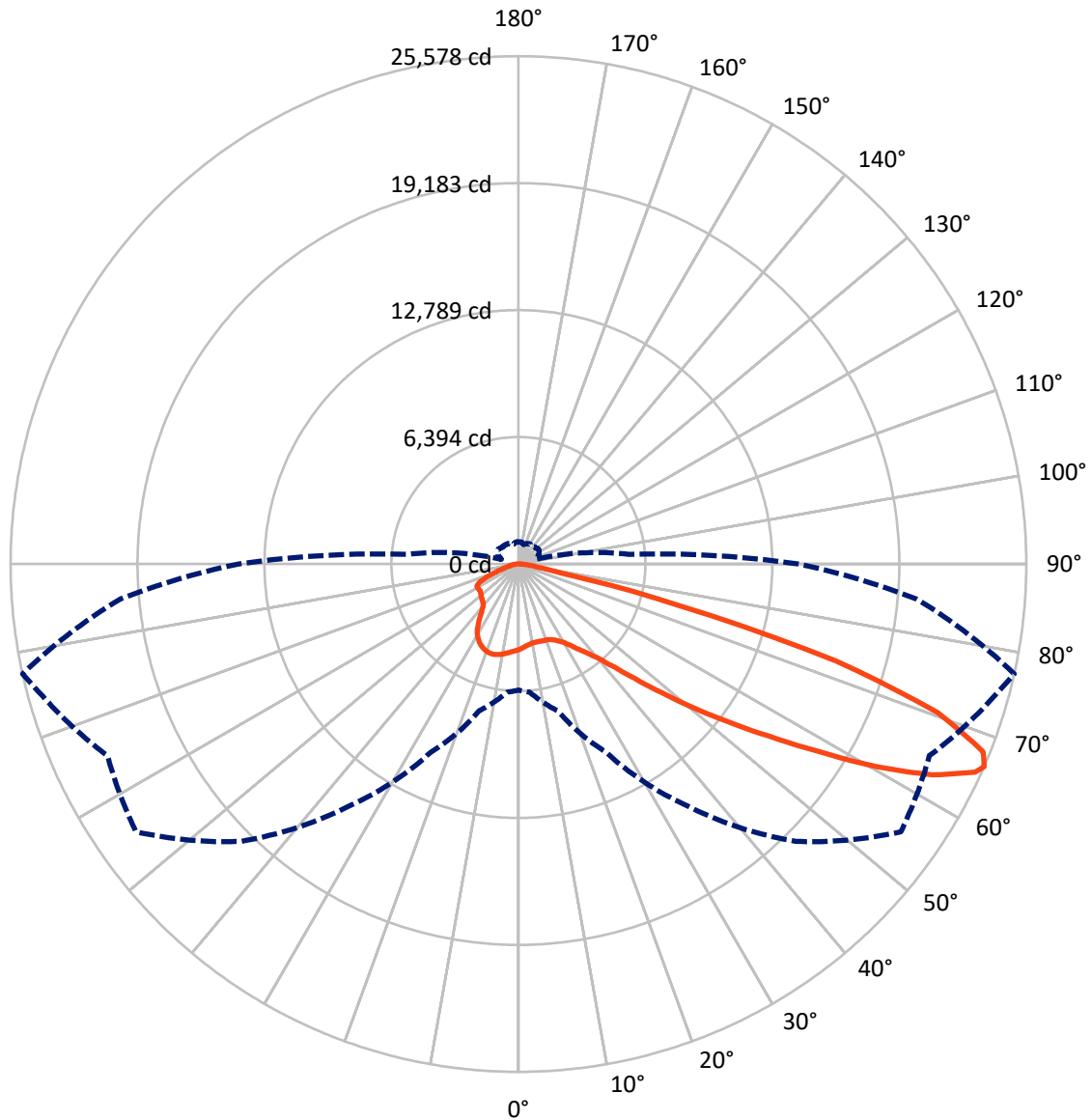


Based on 30 foot mounting height. Maximum calculated value = 5.9 fc
 Type III - Short - Full Cutoff

REPORT NUMBER: P267110

CATALOG NUMBER: GAN-AF-07-LED-U-T3R-7027-800-ADJ

Luminous Intensity Polar Plot



— Vertical Plane Through 77.5-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5162.4	0.0	5162.4
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	25054.5	0.0	25054.5
	% Fixture	82.9	0.0	82.9
Total	Lumens	30216.9	0.0	30216.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	384.7	1.3
10°-20°	1085.3	3.6
20°-30°	1852.3	6.1
30°-40°	2965.2	9.8
40°-50°	4580.9	15.2
50°-60°	6497.3	21.5
60°-70°	8691.7	28.8
70°-80°	3774.6	12.5
80°-90°	384.9	1.3
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°	30216.9	100.0
0°-180°	30216.9	100.0



REPORT NUMBER: P267110

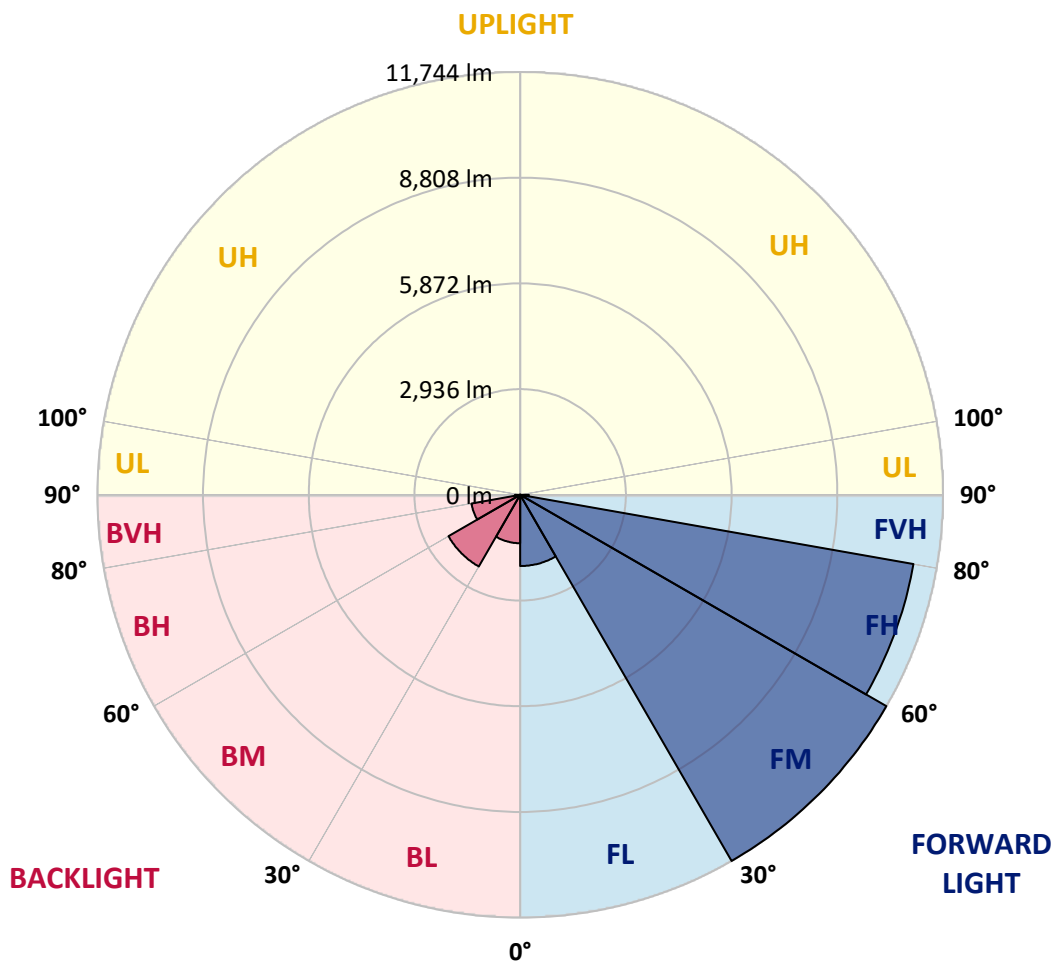
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1977.8	6.5			
FM	(30°-60°)	11743.9	38.9			
FH	(60°-80°)	11091.4	36.7			G4/12000
FVH	(80°-90°)	241.4	0.8			G3/500
BL	(0°-30°)	1344.5	4.4	B3/2500		
BM	(30°-60°)	2299.5	7.6	B2/2500		
BH	(60°-80°)	1374.8	4.5	B3/2500		G3/2500
BVH	(80°-90°)	143.5	0.5			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





REPORT NUMBER: P267110

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	4306.0	4306.0	4306.0	4306.0	4306.0	4306.0	4306.0	4306.0	4306.0	4306.0	4306.0
2.5°	3809.3	3835.0	3856.3	3876.2	3916.3	3981.9	4057.6	4119.0	4207.5	4224.6	4271.8
5°	3459.5	3459.5	3476.5	3506.5	3560.8	3659.2	3762.1	3899.2	4091.9	4137.6	4263.3
7.5°	3289.6	3290.9	3300.9	3326.7	3373.8	3463.7	3576.5	3737.8	3999.1	4074.7	4288.9
10°	3352.4	3338.0	3316.6	3303.7	3311.0	3363.8	3470.8	3650.7	3942.0	4039.0	4346.0
12.5°	3703.5	3676.5	3602.2	3503.7	3409.4	3370.9	3433.7	3609.3	3917.7	4030.4	4421.6
15°	4277.5	4266.1	4127.6	3923.3	3695.0	3503.7	3460.8	3593.6	3920.6	4040.4	4511.6
17.5°	4997.1	4981.5	4798.7	4501.6	4129.0	3756.4	3556.5	3606.4	3930.5	4057.6	4598.8
20°	5723.8	5675.2	5478.3	5124.1	4645.9	4100.5	3715.0	3639.4	3943.4	4076.1	4690.1
22.5°	6266.3	6226.3	6049.2	5705.2	5154.1	4498.8	3927.7	3696.3	3984.8	4130.4	4802.9
25°	6743.1	6746.0	6570.5	6237.8	5668.1	4921.5	4201.8	3849.1	4090.4	4241.7	4957.0
27.5°	7332.9	7298.5	7134.3	6804.7	6176.3	5348.2	4533.0	4059.0	4247.5	4400.3	5159.9
30°	8038.2	8013.9	7824.0	7450.0	6740.3	5806.6	4911.5	4303.2	4450.3	4608.8	5425.5
32.5°	8867.7	8856.2	8659.2	8178.1	7391.3	6346.3	5355.4	4625.8	4752.9	4917.1	5806.6
35°	9841.4	9842.8	9610.1	9031.9	8103.8	6974.5	5859.5	5041.4	5121.2	5292.6	6260.6
37.5°	10441.0	10513.9	10426.7	9837.1	8910.5	7676.9	6513.3	5592.5	5541.0	5713.8	6747.4
40°	10569.5	10658.0	10933.6	10633.7	9812.8	8450.7	7092.9	6122.0	6057.9	6269.2	7374.2
42.5°	10389.6	10512.4	11095.0	11306.2	10770.9	9404.4	7872.6	6908.9	6827.4	7111.5	8153.7
45°	10282.5	10373.9	11047.9	11656.0	11601.8	10482.4	8864.8	7896.8	7866.7	8239.4	9053.3
47.5°	10096.9	10179.8	10827.9	11737.4	12090.1	11470.4	10057.0	9104.6	9163.3	9651.5	10068.5
50°	10196.9	10231.2	10582.4	11530.4	12231.4	12194.3	11389.0	10503.8	10703.8	11313.3	11217.8
52.5°	10182.6	10271.1	10553.7	11190.5	12249.9	12641.2	12701.1	12064.3	12485.5	13185.1	12492.6
55°	8232.2	8395.1	10218.3	11104.8	12315.7	13079.5	13869.0	13709.2	14494.3	15309.6	13931.9
57.5°	7861.1	7964.0	8974.7	11284.8	12663.9	13916.2	15168.2	15519.5	16833.0	17779.6	15685.0
60°	7788.2	7915.3	8961.9	11504.8	13370.7	15279.6	17094.2	17711.1	19678.5	20715.0	17718.2
62.5°	7561.3	7698.4	8877.7	11476.1	14374.4	17165.6	19560.0	20041.0	22376.9	23384.9	19418.7
65°	6841.8	6970.2	8190.9	11014.9	15051.2	19178.8	22478.3	22176.9	24507.1	25265.2	20266.8
66°	6349.1	6474.8	7649.7	10472.4	14894.1	19749.9	23512.0	22838.0	24983.9	25577.9	20101.1
67.5°	5448.2	5546.8	6598.9	9257.5	14059.0	19909.8	24381.4	23334.9	25033.8	25243.8	19154.5
70°	3442.2	3470.8	4288.9	6390.5	10642.3	17267.0	23058.0	22101.3	22969.4	22401.2	16057.7
72.5°	1493.4	1483.5	2058.7	3251.0	6025.0	11586.1	18651.9	18236.4	18018.1	16721.6	11240.5
75°	830.9	842.4	1069.4	1509.2	2448.6	5690.9	12201.4	11676.0	9858.4	8412.2	5097.1
77.5°	666.7	682.4	886.6	1070.8	1099.3	1984.5	5709.4	4645.9	2797.0	2244.3	1416.3
80°	526.9	555.4	773.8	833.7	741.0	818.0	1844.6	1474.8	1106.5	1015.2	733.8
82.5°	417.0	436.8	663.8	631.1	518.2	551.1	883.8	860.9	719.6	655.4	424.0
85°	299.9	337.0	545.5	475.5	339.7	371.2	586.9	562.5	412.6	337.0	187.0
87.5°	122.8	159.9	385.6	315.6	189.9	172.7	292.7	275.6	195.7	142.8	92.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P267110

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4306.0	4306.0	4306.0	4306.0	4306.0	4306.0	4306.0	4306.0	4306.0	4306.0	4306.0
2.5°	4301.8	4335.9	4380.2	4407.4	4421.6	4431.7	4447.4	4446.0	4450.3	4451.7	4457.4
5°	4330.3	4387.4	4451.7	4468.8	4468.8	4453.1	4437.4	4411.7	4401.8	4398.8	4401.8
7.5°	4404.6	4467.5	4523.1	4503.1	4460.3	4397.5	4316.0	4244.6	4206.1	4193.3	4190.5
10°	4498.8	4574.4	4597.3	4521.6	4395.9	4244.6	4083.3	3966.2	3899.2	3880.6	3874.8
12.5°	4612.9	4684.4	4653.0	4493.1	4260.3	4016.2	3793.5	3606.4	3466.5	3422.4	3419.4
15°	4738.6	4794.3	4684.4	4404.6	4057.6	3697.9	3300.9	2978.2	2804.1	2748.4	2744.1
17.5°	4855.7	4884.3	4665.8	4250.4	3759.2	3176.6	2649.9	2401.4	2341.5	2355.7	2358.6
20°	4955.7	4955.7	4603.1	4029.1	3289.6	2489.9	2157.3	2153.0	2195.8	2238.7	2247.3
22.5°	5065.6	5000.0	4493.1	3716.4	2624.2	2037.4	1988.8	2028.8	2077.3	2124.5	2131.6
25°	5201.2	5035.5	4340.3	3242.4	2063.0	1850.4	1869.0	1901.7	1926.1	1956.0	1960.3
27.5°	5352.6	5081.4	4139.0	2590.0	1790.4	1733.3	1747.6	1759.1	1756.0	1767.5	1770.4
30°	5533.9	5134.2	3863.4	2024.5	1677.6	1633.3	1607.6	1597.6	1597.6	1616.2	1623.3
32.5°	5776.6	5212.7	3467.9	1734.6	1623.3	1562.0	1479.1	1442.0	1456.3	1519.2	1533.3
35°	6043.5	5296.9	2932.5	1636.3	1611.9	1529.2	1400.5	1332.0	1333.5	1392.1	1410.6
37.5°	6334.8	5403.9	2345.7	1617.6	1637.6	1530.5	1359.1	1265.0	1226.5	1226.5	1233.6
40°	6707.6	5513.8	1898.8	1630.5	1691.9	1547.7	1337.8	1212.2	1103.7	1106.5	1112.2
42.5°	7192.9	5608.2	1659.0	1657.6	1757.5	1570.4	1336.4	1142.1	1048.0	1112.2	1170.8
45°	7732.6	5655.3	1553.3	1681.8	1810.4	1584.8	1313.5	1130.7	1055.1	1246.4	1357.8
47.5°	8353.7	5628.2	1494.8	1690.4	1823.2	1584.8	1287.8	1157.8	1105.0	1443.4	1573.3
50°	9034.8	5549.5	1437.7	1673.4	1819.0	1581.9	1312.1	1185.0	1123.6	1477.7	1567.6
52.5°	9835.6	5484.0	1377.8	1636.3	1789.0	1566.3	1340.6	1173.5	1065.1	1343.4	1406.3
55°	10749.4	5502.5	1310.6	1583.4	1741.9	1536.2	1330.7	1127.9	1003.6	1183.5	1222.1
57.5°	11917.4	5723.8	1230.7	1516.2	1677.6	1486.2	1294.9	1106.5	985.1	1073.7	1096.6
60°	13220.9	6109.3	1130.7	1449.1	1597.6	1406.3	1267.8	1116.6	993.7	1065.1	1076.4
62.5°	14177.4	6333.4	1045.1	1350.6	1489.1	1317.9	1233.6	1129.3	1016.5	1095.0	1092.2
65°	14437.3	5965.0	938.0	1206.5	1342.1	1225.0	1190.8	1143.6	1026.6	1119.4	1106.5
66°	14073.1	5568.1	890.8	1139.3	1267.8	1179.4	1169.4	1142.1	1022.2	1122.3	1100.9
67.5°	13189.5	4754.4	809.6	1040.9	1149.3	1110.8	1135.1	1129.3	1010.9	1119.4	1089.4
70°	10756.6	3243.8	692.5	866.7	956.5	978.1	1069.4	1083.6	973.8	1069.4	1003.6
72.5°	7515.6	1976.0	612.6	672.6	773.8	833.7	979.4	1020.8	923.7	933.8	870.9
75°	3632.1	1049.4	555.4	521.1	601.1	696.7	870.9	935.1	845.2	780.9	758.1
77.5°	1132.3	641.0	471.2	419.8	471.2	562.5	728.2	819.6	752.4	653.8	645.3
80°	608.2	471.2	362.6	337.0	372.6	441.2	572.5	683.9	646.8	586.9	524.0
82.5°	401.3	305.6	268.5	261.2	284.1	337.0	425.4	566.8	566.8	502.5	365.5
85°	207.0	187.0	184.2	184.2	198.4	224.1	289.9	436.8	465.4	265.5	219.8
87.5°	102.8	107.1	99.9	104.3	111.4	110.0	138.5	219.8	262.8	161.3	134.1
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)