

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: P192928

Luminaire Tested: **GAN-AF-10-LED-U-SL3-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192928
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24288)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-10-LED-U-SL3-7030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 62513.8 lumens
Efficiency: N/A
Efficacy: 97.7 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B4 - U0 - G5

Input Watts (W): 640
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

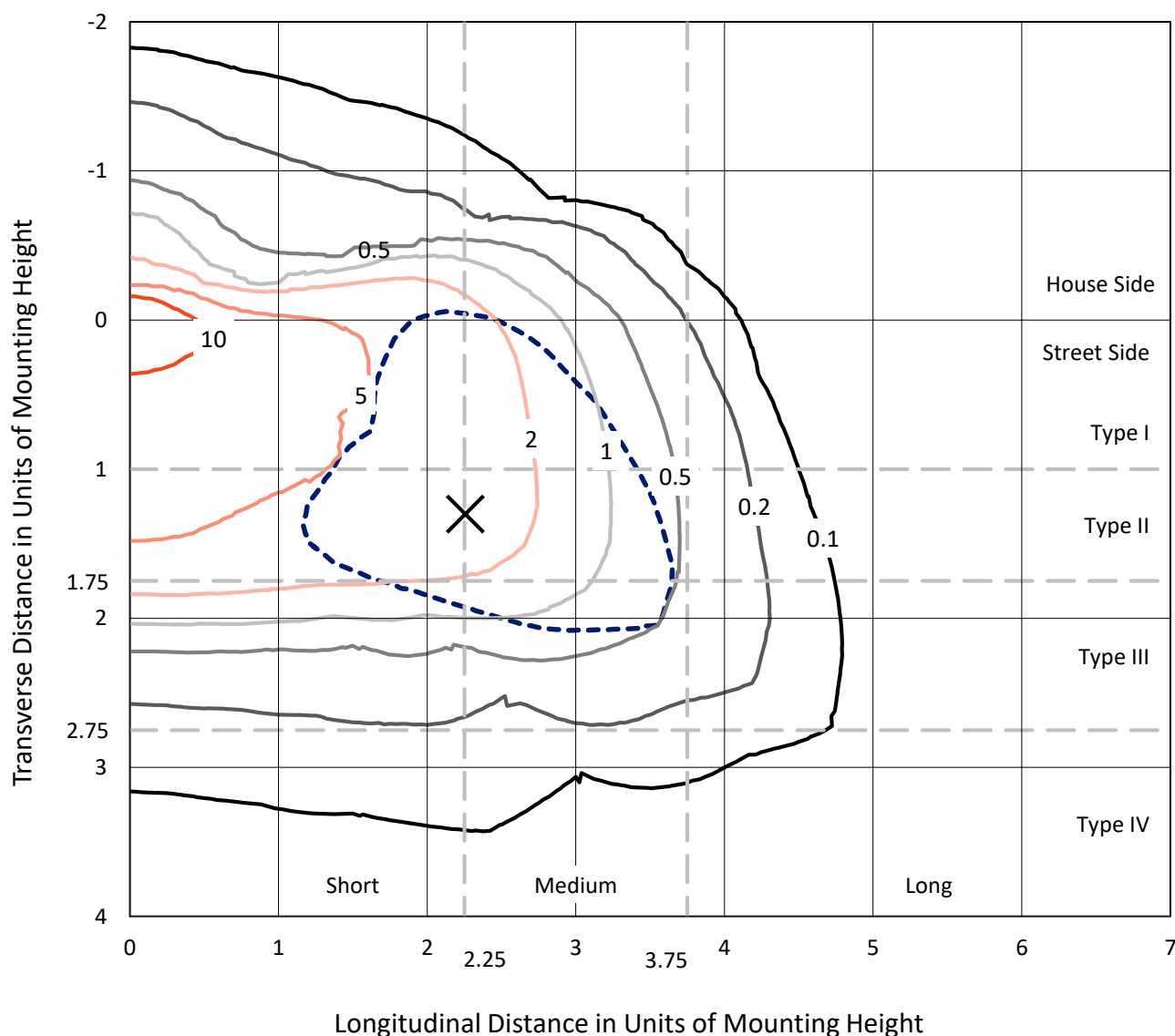


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

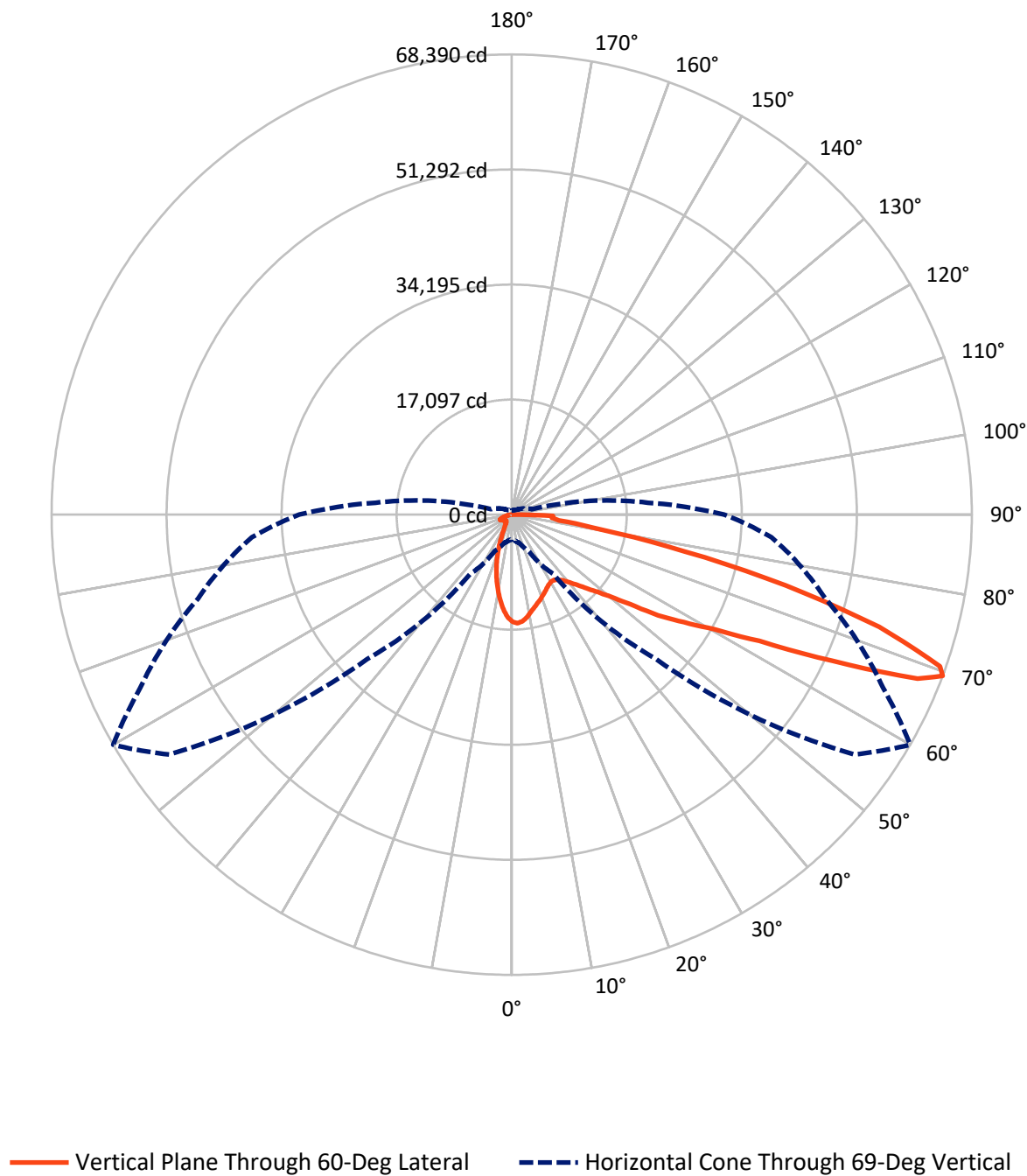


Based on 30 foot mounting height. Maximum calculated value = 17.7 fc
Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8893.7	0.0	8893.7
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	53620.0	0.0	53620.0
	% Fixture	85.8	0.0	85.8
Total	Lumens	62513.8	0.0	62513.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1346.9	2.2
10°-20°	2869.7	4.6
20°-30°	3656.5	5.8
30°-40°	5026.7	8.0
40°-50°	8156.3	13.0
50°-60°	13080.6	20.9
60°-70°	17409.2	27.8
70°-80°	9399.6	15.0
80°-90°	1568.4	2.5
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°	62513.8	100.0
0°-180°	62513.8	100.0

Coefficient of Utilization



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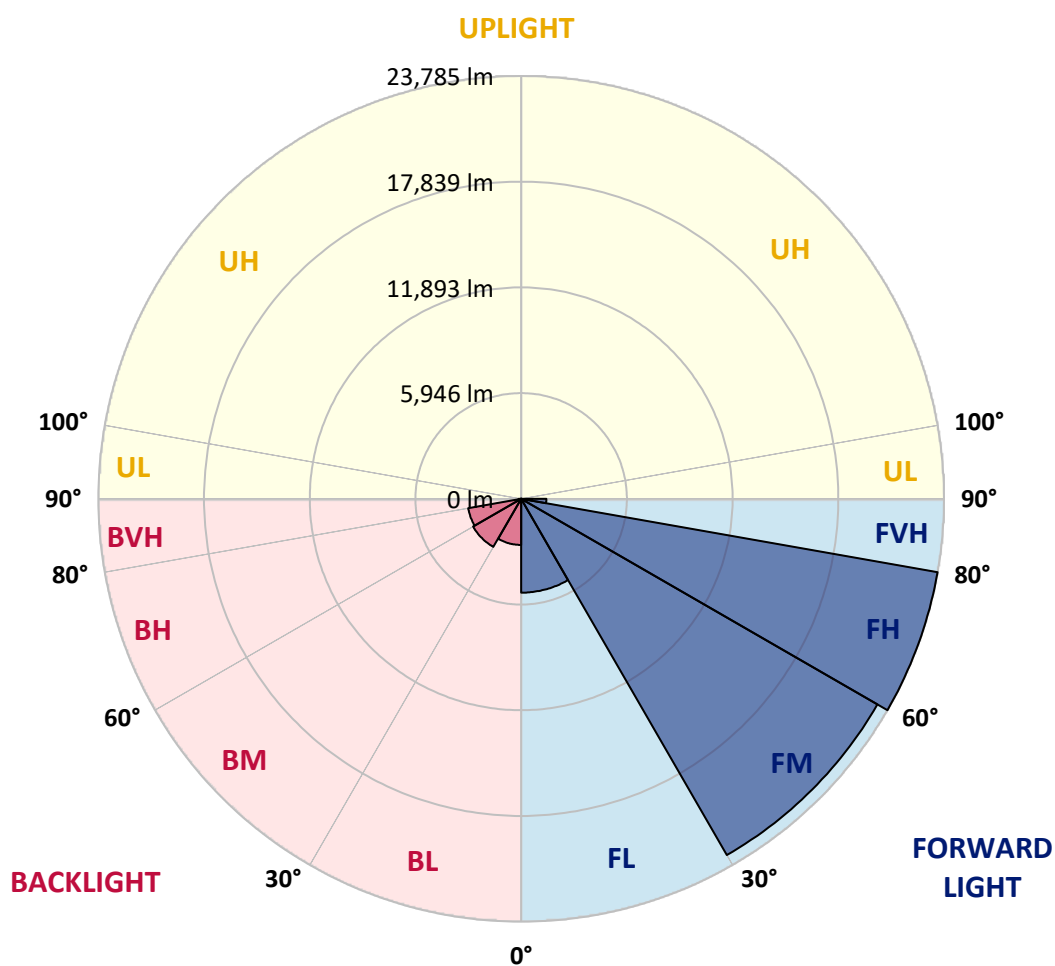
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5278.4	8.4			
FM	(30°-60°)	23139.0	37.0			
FH	(60°-80°)	23785.3	38.0			G5
FVH	(80°-90°)	1417.4	2.3			G5
BL	(0°-30°)	2594.6	4.2	B4/5000		
BM	(30°-60°)	3124.5	5.0	B3/5000		
BH	(60°-80°)	3023.6	4.8	B4/5000		G4/5000
BVH	(80°-90°)	151.0	0.2			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	15929.5	15929.5	15929.5	15929.5	15929.5	15929.5	15929.5	15929.5	15929.5	15929.5	15929.5
2.5°	16255.6	16291.8	16276.8	16267.7	16294.8	16252.6	16165.0	16137.8	16095.5	15995.9	15826.7
5°	15645.6	15754.3	15748.3	15829.8	15965.7	16001.9	15962.7	15968.7	15890.2	15766.4	15485.6
7.5°	14591.7	14637.0	14661.2	14839.3	15086.9	15286.3	15455.4	15509.7	15473.6	15367.8	15005.4
10°	13504.6	13540.8	13598.2	13806.5	14120.5	14395.5	14715.5	14899.6	14978.3	14960.1	14555.4
12.5°	12571.5	12607.7	12683.2	12918.7	13293.1	13631.4	14096.4	14326.0	14513.1	14624.9	14190.0
15°	11735.0	11813.4	11886.0	12157.8	12577.5	13021.4	13546.8	13836.7	14126.6	14377.3	13866.9
17.5°	11082.7	11161.2	11203.5	11451.1	11898.0	12441.6	13057.6	13398.9	13761.2	14171.9	13546.8
20°	10705.2	10741.4	10723.4	10862.2	11263.9	11840.7	12571.5	12967.0	13404.9	13978.6	13226.7
22.5°	10599.5	10602.5	10536.1	10521.0	10780.7	11267.0	12052.1	12532.1	13069.7	13851.9	12951.9
25°	10856.2	10847.1	10666.0	10518.0	10545.1	10829.0	11550.8	12109.4	12788.9	13824.7	12740.5
27.5°	11426.9	11454.0	11185.3	10907.6	10632.7	10623.8	11170.2	11759.1	12559.4	13948.5	12649.9
30°	12227.2	12272.4	11985.6	11632.3	11115.9	10690.2	11022.3	11550.8	12417.5	14205.2	12634.8
32.5°	13102.9	13151.2	12933.8	12562.4	11886.0	11100.7	11125.0	11568.9	12411.5	14564.5	12737.6
35°	14036.0	14090.4	13978.6	13664.6	12912.7	11858.8	11517.6	11861.7	12607.7	15114.2	13012.3
37.5°	15077.9	15162.5	15192.6	14893.6	14090.4	12858.2	12160.8	12417.5	13051.6	15878.1	13516.7
40°	16578.7	16696.5	16687.3	16258.7	15440.3	14208.2	13154.3	13220.7	13743.1	16898.8	14322.9
42.5°	19453.6	19477.7	18725.8	17792.7	16926.0	15627.5	14326.0	14271.6	14697.3	18191.3	15509.7
45°	23110.5	23010.9	21337.9	19535.1	18478.2	17258.1	15850.9	15585.2	15908.3	19767.6	16995.5
47.5°	26145.4	25916.0	23802.1	21313.8	20120.9	19030.8	17641.6	17176.6	17354.8	21555.3	18916.0
50°	27199.3	27027.3	25275.7	22793.4	21676.2	21193.0	19846.2	19187.8	19236.1	23687.3	21165.8
52.5°	26972.9	26948.7	25780.0	23769.0	23131.8	23463.9	22968.6	22077.8	21606.7	26054.8	23593.8
55°	26438.3	26489.7	26067.0	24904.3	24795.7	25656.3	27048.3	26390.1	24925.5	28443.6	26103.1
57.5°	24581.1	24714.1	25644.1	26332.7	27474.2	28754.6	30333.8	30146.7	28497.9	31025.5	29086.8
60°	19803.9	20111.9	22606.3	26054.8	30231.3	34235.6	34942.1	34507.3	32182.0	34229.5	33027.6
62.5°	13876.0	14196.0	17161.6	22557.8	29778.3	40426.2	43180.2	41304.9	37472.7	38949.4	38127.9
65°	7428.7	7582.7	9847.5	15651.6	25139.9	41703.5	55220.0	52366.5	45849.7	44768.6	42491.7
67.5°	4097.9	4182.5	5049.1	7902.8	16101.5	36723.7	62890.4	65046.5	56319.4	48643.0	41697.4
69°	3705.3	3783.8	4351.6	5985.2	10774.6	30364.1	62141.5	68389.5	60909.5	48259.5	38762.2
70°	3623.8	3696.2	4206.6	5517.1	8721.2	25028.1	59632.1	67534.9	62002.6	46885.5	36201.4
72.5°	3261.4	3339.9	3835.1	4955.5	7452.9	12477.9	47235.7	57101.4	56292.1	40652.6	27459.0
75°	3040.9	3113.5	3952.9	4852.9	7135.8	7896.8	31140.2	42083.9	41380.3	28437.5	14806.0
77.5°	1301.5	1295.5	1833.1	4106.9	7241.4	7646.2	16732.7	26290.4	23986.3	12154.6	4252.0
80°	869.7	854.6	869.7	1208.0	6640.6	7688.5	8766.5	13344.5	10080.1	3098.3	2095.7
82.5°	748.9	736.9	764.0	736.9	2334.4	8775.6	7452.9	7096.5	4792.4	1760.5	1038.8
85°	504.3	483.2	658.3	661.3	1102.2	7797.2	8395.1	5994.3	3877.4	1044.8	513.4
87.5°	241.6	235.6	383.5	468.0	646.3	3167.8	9418.8	6142.2	3910.6	534.5	244.6
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°	15929.5	15929.5	15929.5	15929.5	15929.5	15929.5	15929.5	15929.5	15929.5	15929.5	15929.5
2.5°	15775.4	15651.6	15530.8	15385.9	15234.9	15065.8	14981.2	14896.7	14875.5	14851.4	14766.8
5°	15340.5	15165.4	14863.5	14531.3	14181.0	13839.8	13580.1	13417.0	13293.1	13229.7	13118.0
7.5°	14779.0	14522.2	13993.8	13420.0	12831.2	12293.7	11828.5	11535.6	11257.8	11127.9	10980.0
10°	14244.4	13860.8	13039.5	12194.0	11348.4	10536.1	9772.0	9231.6	8751.3	8482.7	8292.3
12.5°	13785.4	13259.9	12121.4	10976.9	9817.4	8660.8	7516.3	6616.4	5864.5	5468.9	5266.6
15°	13338.5	12704.3	11248.8	9796.3	8307.5	6734.2	5230.3	4209.6	3587.5	3339.9	3255.4
17.5°	12933.8	12121.4	10373.1	8606.5	6749.3	4846.7	3515.1	2953.4	2714.8	2633.2	2606.1
20°	12496.0	11532.7	9464.0	7362.3	5124.6	3388.2	2745.0	2497.3	2400.8	2376.6	2364.5
22.5°	12073.1	10952.8	8594.4	6030.6	3681.2	2615.1	2358.5	2255.7	2240.7	2261.8	2261.8
25°	11713.8	10433.3	7655.2	4638.4	2702.7	2201.5	2110.9	2086.7	2144.1	2222.6	2237.6
27.5°	11445.0	10007.6	6655.6	3424.4	2153.2	1914.5	1911.5	1950.9	2092.8	2243.7	2273.9
30°	11260.8	9603.1	5586.7	2470.3	1805.8	1685.0	1733.4	1818.0	2026.3	2240.7	2298.0
32.5°	11167.3	9304.0	4472.3	1911.5	1546.1	1479.7	1561.2	1663.9	1869.2	2068.6	2144.1
35°	11239.7	9083.6	3421.5	1594.4	1364.9	1313.7	1398.2	1497.8	1618.5	1703.2	1760.5
37.5°	11511.4	8996.0	2581.9	1428.3	1241.1	1192.8	1259.2	1316.7	1364.9	1389.1	1416.3
40°	12097.3	9089.6	2068.6	1343.8	1171.7	1111.2	1138.5	1159.6	1189.9	1214.0	1226.0
42.5°	12961.0	9370.4	1854.1	1310.6	1135.4	1047.9	1041.8	1050.8	1090.2	1135.4	1144.5
45°	14169.0	9865.7	1839.1	1331.8	1117.2	996.6	969.3	981.4	1041.8	1111.2	1123.4
47.5°	15712.0	10620.6	1959.9	1395.1	1132.5	969.3	924.0	939.2	1014.7	1108.2	1123.4
50°	17581.4	11674.6	2162.1	1488.7	1198.9	975.3	908.9	918.0	996.6	1099.2	1114.3
52.5°	19788.8	13169.3	2382.6	1579.4	1268.3	1014.7	921.0	899.9	972.4	1063.0	1081.1
55°	22243.9	15086.9	2609.1	1660.8	1304.5	1063.0	945.2	875.7	927.1	1002.6	1017.6
57.5°	25257.7	17768.5	3001.7	1739.4	1328.7	1096.2	969.3	851.5	869.7	924.0	936.2
60°	29337.4	21561.4	3693.2	1869.2	1383.1	1108.2	966.3	830.5	812.4	842.5	848.6
62.5°	34226.4	25680.4	4270.0	2032.3	1473.7	1117.2	948.3	815.3	764.0	764.0	770.1
65°	37128.5	26782.6	3949.9	2168.2	1549.2	1108.2	927.1	800.3	727.7	694.6	697.6
67.5°	34667.3	23554.4	3385.2	2195.3	1546.1	1066.1	893.8	773.1	691.5	640.1	637.2
69°	31584.1	20323.4	3131.6	2122.9	1473.7	1011.6	851.5	742.9	664.4	610.0	606.9
70°	29098.8	18351.3	2965.4	2044.5	1395.1	972.4	818.4	715.6	643.2	591.8	585.8
72.5°	21156.8	12024.8	2533.6	1757.6	1150.5	815.3	706.6	628.1	573.7	543.6	537.5
75°	10572.4	5734.6	2056.5	1425.4	881.8	652.3	579.8	525.4	498.2	492.2	489.2
77.5°	3472.8	2627.2	1470.6	1063.0	655.3	510.4	468.0	428.9	422.8	440.9	434.9
80°	1908.5	1528.0	933.1	703.6	447.0	374.4	368.4	347.2	356.3	386.6	380.4
82.5°	972.4	794.2	576.8	422.8	302.0	268.8	293.0	280.8	293.0	320.1	317.1
85°	480.2	434.9	365.4	256.6	199.3	172.1	208.3	217.4	223.4	244.6	244.6
87.5°	277.8	256.6	193.3	120.8	99.7	90.5	120.8	117.8	138.9	151.0	147.9
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)