

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: P299931

Luminaire Tested: **GAA-AF-10-LED-U-SL3-8030-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P299931  
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: GAA-AF-10-LED-U-SL3-8030-800  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(10) 80 CRI, 3000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Type V  
Square Medium OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

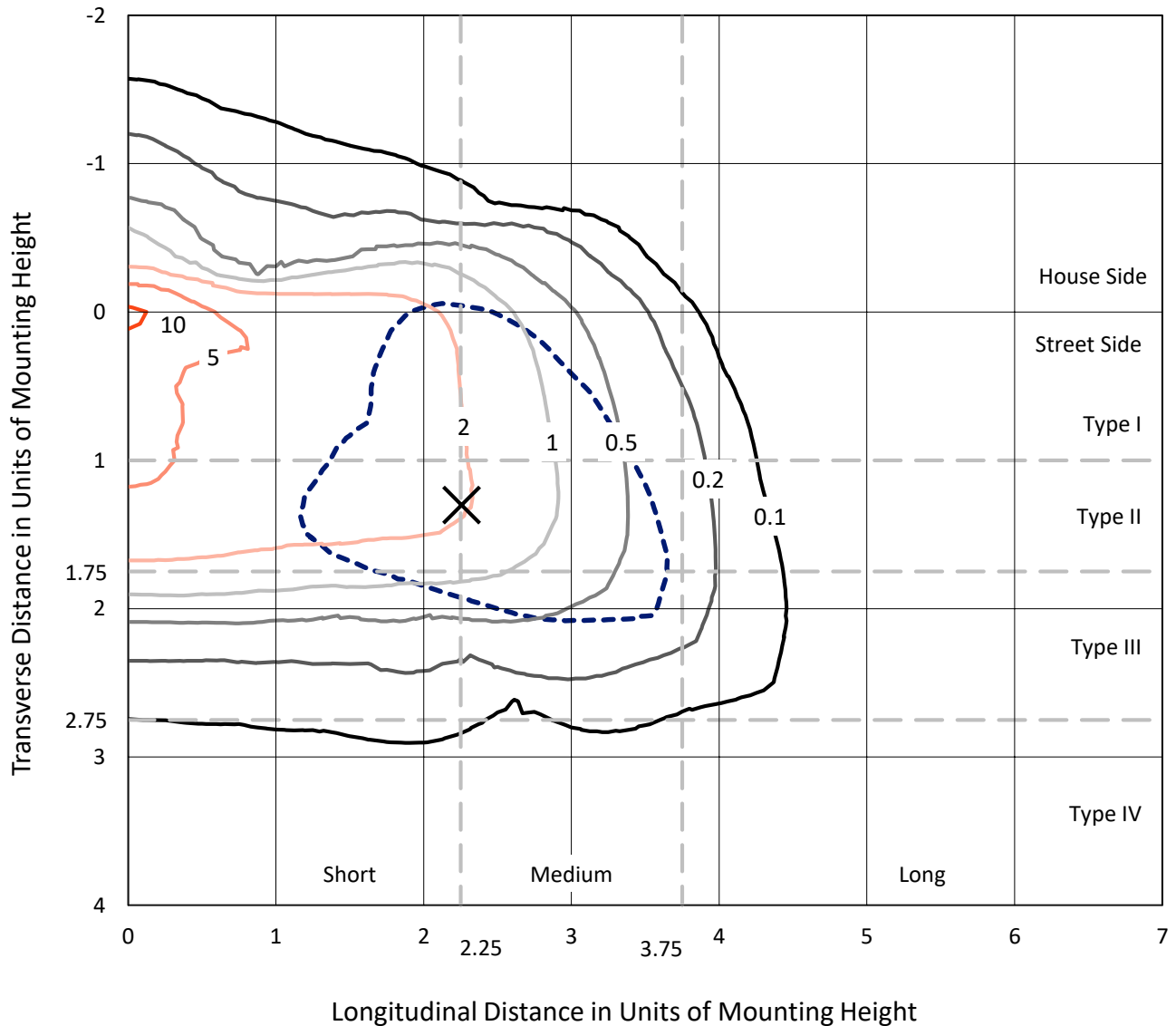
Lumens per Lamp: N/A  
Luminaire Lumens: 38712 lumens  
Efficiency: N/A  
Efficacy: 92.4 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium - Non-Cutoff  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 419  
Input Voltage (V): NR  
Input Current (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

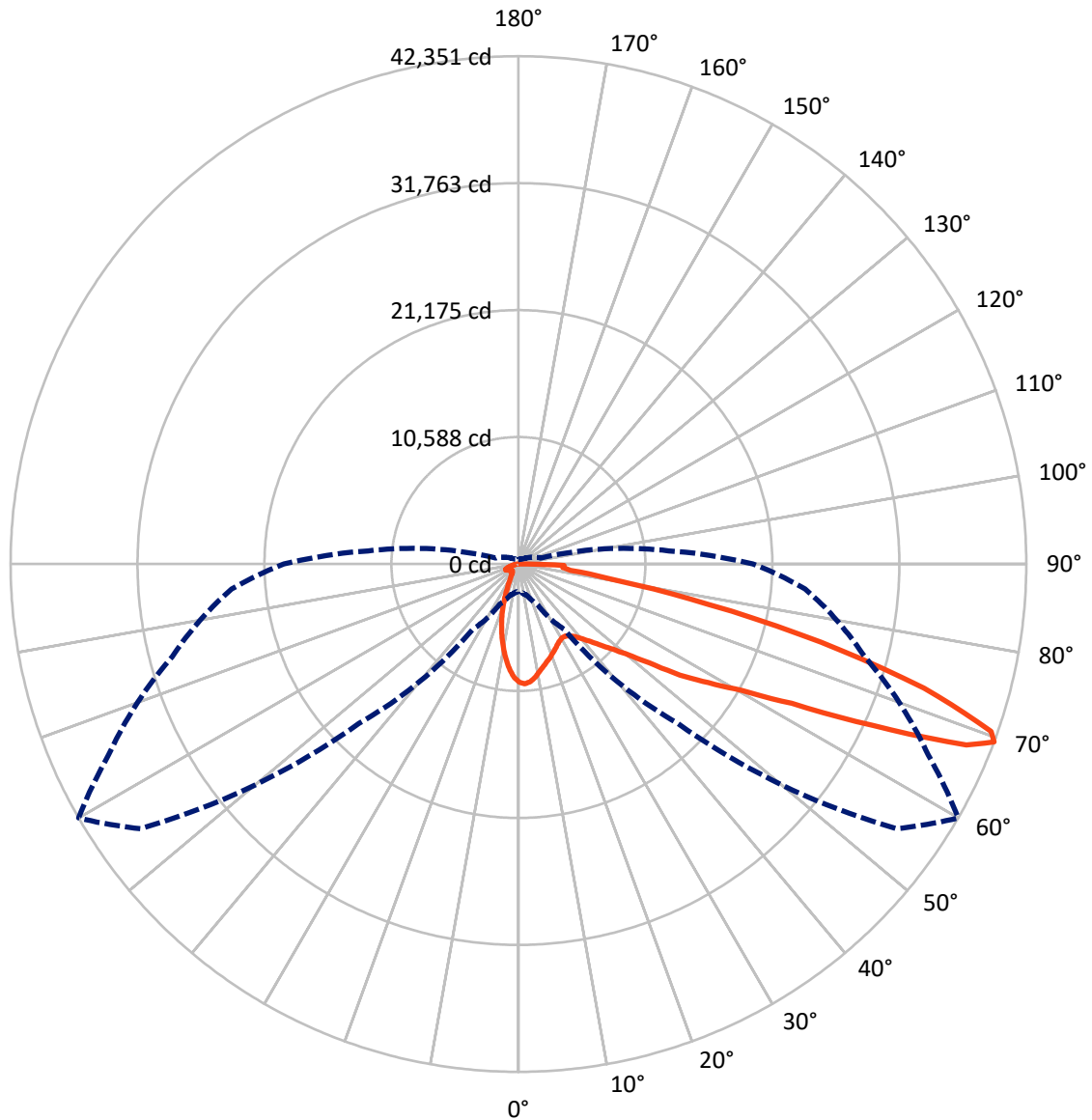
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11 fc  
 Type III - Medium - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5507.5	0.0	5507.5
	% Fixture	14.2	0.0	14.2
<b>Street Side</b>	Lumens	33204.5	0.0	33204.5
	% Fixture	85.8	0.0	85.8
<b>Total</b>	Lumens	38712.0	0.0	38712.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	834.1	2.2
10°-20°	1777.0	4.6
20°-30°	2264.3	5.8
30°-40°	3112.8	8.0
40°-50°	5050.8	13.0
50°-60°	8100.2	20.9
60°-70°	10780.8	27.8
70°-80°	5820.8	15.0
80°-90°	971.2	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°	38712.0	100.0
0°-180°	38712.0	100.0

**Coefficient of Utilization**



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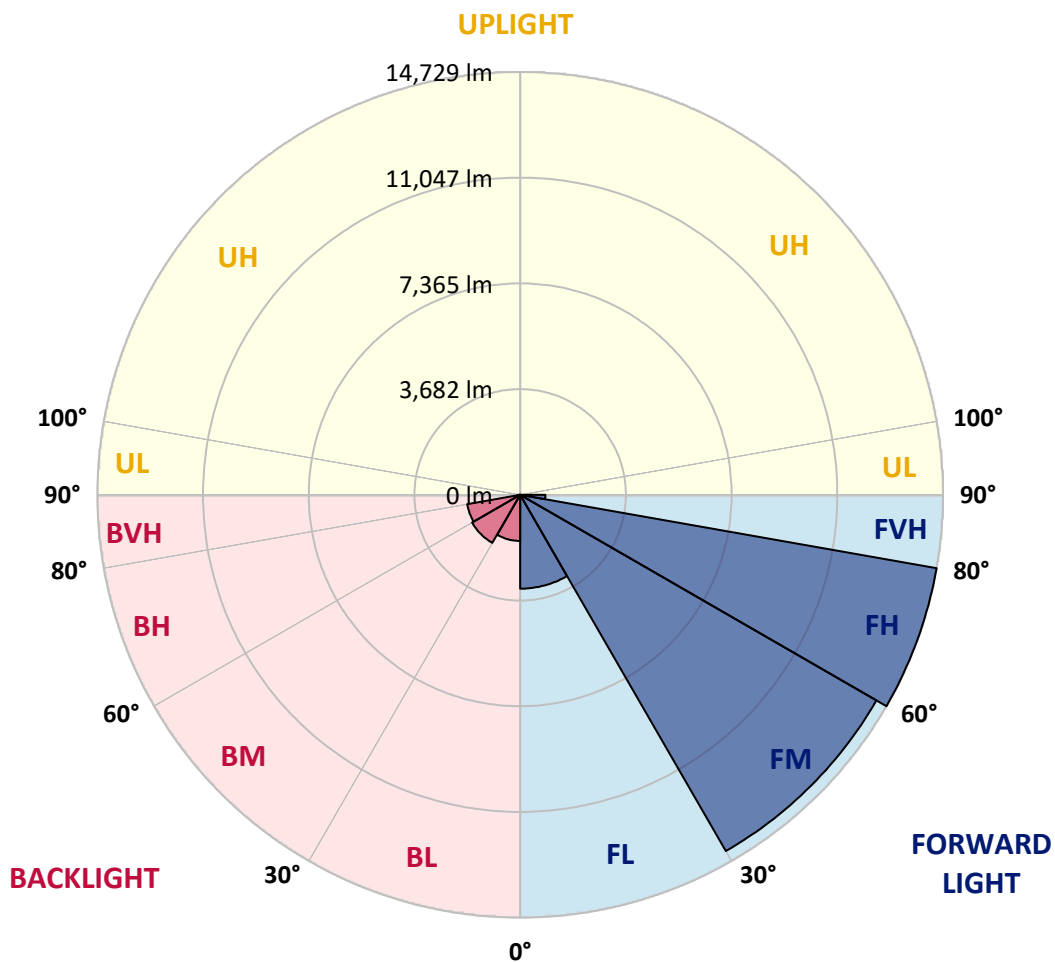
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3268.7	8.4			
FM	(30°-60°)	14328.9	37.0			
FH	(60°-80°)	14729.2	38.0			G5
FVH	(80°-90°)	877.7	2.3			G5
BL	(0°-30°)	1606.7	4.2	B3/2500		
BM	(30°-60°)	1934.9	5.0	B2/2500		
BH	(60°-80°)	1872.4	4.8	B3/2500		G3/2500
BVH	(80°-90°)	93.5	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	9864.4	9864.4	9864.4	9864.4	9864.4	9864.4	9864.4	9864.4	9864.4	9864.4	9864.4
2.5°	10066.4	10088.8	10079.4	10073.8	10090.7	10064.5	10010.3	9993.4	9967.2	9905.5	9800.8
5°	9688.6	9755.9	9752.2	9802.7	9886.8	9909.3	9885.0	9888.7	9840.1	9763.4	9589.5
7.5°	9036.0	9064.0	9079.0	9189.3	9342.7	9466.1	9570.8	9604.5	9582.0	9516.6	9292.2
10°	8362.8	8385.2	8420.7	8549.8	8744.2	8914.4	9112.6	9226.7	9275.3	9264.1	9013.5
12.5°	7784.9	7807.4	7854.1	8000.0	8231.9	8441.3	8729.3	8871.4	8987.4	9056.5	8787.3
15°	7266.9	7315.5	7360.4	7528.7	7788.7	8063.6	8388.9	8568.5	8748.0	8903.2	8587.2
17.5°	6863.0	6911.6	6937.8	7091.1	7367.9	7704.5	8086.0	8297.3	8521.7	8776.0	8388.9
20°	6629.2	6651.7	6640.5	6726.5	6975.2	7332.4	7784.9	8029.9	8301.1	8656.4	8190.7
22.5°	6563.8	6565.7	6524.5	6515.2	6676.0	6977.1	7463.3	7760.6	8093.5	8577.8	8020.5
25°	6722.7	6717.1	6604.9	6513.3	6530.1	6705.9	7152.9	7498.8	7919.6	8561.0	7889.6
27.5°	7076.2	7093.0	6926.6	6754.5	6584.4	6578.8	6917.2	7281.9	7777.4	8637.7	7833.5
30°	7571.7	7599.8	7422.1	7203.3	6883.6	6619.9	6825.6	7152.9	7689.6	8796.6	7824.2
32.5°	8114.1	8144.0	8009.3	7779.3	7360.4	6874.2	6889.2	7164.1	7685.8	9019.1	7887.8
35°	8691.9	8725.5	8656.4	8461.9	7996.2	7343.6	7132.3	7345.5	7807.4	9359.5	8057.9
37.5°	9337.0	9389.4	9408.1	9223.0	8725.5	7962.6	7530.6	7689.6	8082.3	9832.6	8370.2
40°	10266.5	10339.4	10333.8	10068.2	9561.5	8798.5	8145.8	8187.0	8510.5	10464.7	8869.5
42.5°	12046.7	12061.7	11596.0	11018.2	10481.5	9677.4	8871.4	8837.8	9101.4	11265.0	9604.5
45°	14311.3	14249.6	13213.6	12097.2	11442.7	10687.2	9815.8	9651.2	9851.3	12241.2	10524.5
47.5°	16190.7	16048.6	14739.6	13198.7	12460.0	11784.9	10924.7	10636.7	10747.0	13348.3	11713.9
50°	16843.3	16736.7	15652.1	14115.0	13423.1	13123.9	12289.8	11882.2	11912.1	14668.5	13107.0
52.5°	16703.1	16688.1	15964.4	14719.0	14324.4	14530.1	14223.4	13671.8	13380.0	16134.6	14610.5
55°	16372.1	16403.9	16142.1	15422.1	15354.8	15887.8	16749.8	16342.2	15435.2	17613.8	16164.5
57.5°	15222.0	15304.3	15880.3	16306.6	17013.5	17806.4	18784.4	18668.5	17647.5	19212.7	18012.1
60°	12263.6	12454.4	13999.0	16134.6	18720.8	21200.5	21638.1	21368.8	19928.9	21196.8	20452.5
62.5°	8592.8	8791.0	10627.4	13969.1	18440.3	25034.1	26739.5	25578.2	23205.2	24119.6	23611.0
65°	4600.3	4695.6	6098.2	9692.4	15568.0	25825.1	34195.3	32428.2	28392.6	27723.2	26313.2
67.5°	2537.6	2590.0	3126.7	4893.9	9971.0	22741.4	38945.2	40280.4	34876.0	30122.4	25821.3
69°	2294.5	2343.1	2694.7	3706.4	6672.3	18803.1	38481.4	42350.5	37718.5	29884.9	24003.7
70°	2244.0	2288.9	2604.9	3416.5	5400.6	15498.8	36927.4	41821.3	38395.4	29034.1	22417.9
72.5°	2019.6	2068.3	2374.9	3068.7	4615.2	7727.0	29251.0	35360.4	34859.2	25174.3	17004.2
75°	1883.1	1928.0	2447.9	3005.1	4418.9	4890.1	19283.7	26060.7	25625.0	17610.1	9168.7
77.5°	806.0	802.2	1135.1	2543.2	4484.3	4734.9	10361.8	16280.5	14853.6	7526.9	2633.0
80°	538.6	529.2	538.6	748.0	4112.2	4761.1	5428.7	8263.7	6242.2	1918.6	1297.8
82.5°	463.8	456.3	473.1	456.3	1445.5	5434.3	4615.2	4394.6	2967.7	1090.2	643.3
85°	312.3	299.2	407.7	409.5	682.6	4828.4	5198.7	3712.0	2401.1	647.0	317.9
87.5°	149.6	145.9	237.5	289.9	400.2	1961.7	5832.6	3803.6	2421.7	331.0	151.5
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°	9864.4	9864.4	9864.4	9864.4	9864.4	9864.4	9864.4	9864.4	9864.4	9864.4	9864.4
2.5°	9769.0	9692.4	9617.6	9527.8	9434.3	9329.6	9277.2	9224.8	9211.8	9196.8	9144.4
5°	9499.7	9391.3	9204.3	8998.6	8781.7	8570.3	8409.5	8308.5	8231.9	8192.6	8123.4
7.5°	9151.9	8993.0	8665.7	8310.4	7945.7	7612.9	7324.9	7143.5	6971.5	6891.1	6799.4
10°	8820.9	8583.4	8074.8	7551.2	7027.6	6524.5	6051.4	5716.7	5419.3	5252.9	5135.1
12.5°	8536.7	8211.3	7506.3	6797.6	6079.5	5363.2	4654.5	4097.2	3631.6	3386.6	3261.3
15°	8259.9	7867.2	6965.9	6066.4	5144.4	4170.2	3238.9	2606.8	2221.6	2068.3	2015.9
17.5°	8009.3	7506.3	6423.5	5329.6	4179.5	3001.4	2176.7	1828.9	1681.2	1630.7	1613.8
20°	7738.2	7141.6	5860.7	4559.1	3173.4	2098.2	1699.9	1546.5	1486.7	1471.7	1464.2
22.5°	7476.4	6782.6	5322.1	3734.4	2279.6	1619.4	1460.5	1396.9	1387.6	1400.7	1400.7
25°	7253.8	6460.9	4740.5	2872.4	1673.7	1363.3	1307.1	1292.2	1327.7	1376.3	1385.7
27.5°	7087.4	6197.3	4121.5	2120.6	1333.3	1185.6	1183.7	1208.0	1295.9	1389.4	1408.1
30°	6973.3	5946.7	3459.6	1529.7	1118.3	1043.5	1073.4	1125.8	1254.8	1387.6	1423.1
32.5°	6915.4	5761.6	2769.5	1183.7	957.5	916.3	966.8	1030.4	1157.5	1281.0	1327.7
35°	6960.2	5625.0	2118.7	987.4	845.3	813.5	865.8	927.5	1002.3	1054.7	1090.2
37.5°	7128.5	5570.8	1598.9	884.5	768.6	738.7	779.8	815.3	845.3	860.2	877.0
40°	7491.3	5628.8	1281.0	832.2	725.6	688.2	705.0	718.1	736.8	751.8	759.2
42.5°	8026.2	5802.7	1148.2	811.6	703.1	648.9	645.2	650.8	675.1	703.1	708.7
45°	8774.2	6109.4	1138.8	824.7	691.9	617.1	600.3	607.8	645.2	688.2	695.7
47.5°	9729.8	6576.9	1213.6	864.0	701.3	600.3	572.2	581.6	628.3	686.3	695.7
50°	10887.3	7229.5	1338.9	921.9	742.4	604.0	562.9	568.5	617.1	680.7	690.0
52.5°	12254.3	8155.2	1475.5	978.0	785.4	628.3	570.4	557.3	602.1	658.2	669.5
55°	13774.6	9342.7	1615.7	1028.5	807.9	658.2	585.3	542.3	574.1	620.8	630.2
57.5°	15640.9	11003.2	1858.8	1077.1	822.8	678.8	600.3	527.3	538.6	572.2	579.7
60°	18167.3	13352.0	2287.0	1157.5	856.5	686.3	598.4	514.3	503.0	521.7	525.5
62.5°	21194.9	15902.7	2644.2	1258.5	912.6	691.9	587.2	504.9	473.1	473.1	476.9
65°	22992.0	16585.3	2446.0	1342.7	959.3	686.3	574.1	495.6	450.7	430.1	432.0
67.5°	21467.9	14586.2	2096.3	1359.5	957.5	660.1	553.5	478.7	428.2	396.4	394.6
69°	19558.6	12585.3	1939.2	1314.6	912.6	626.5	527.3	460.0	411.4	377.7	375.9
70°	18019.6	11364.2	1836.4	1266.0	864.0	602.1	506.8	443.2	398.3	366.5	362.8
72.5°	13101.4	7446.5	1569.0	1088.4	712.5	504.9	437.6	389.0	355.3	336.6	332.9
75°	6547.0	3551.2	1273.5	882.7	546.0	403.9	359.0	325.4	308.6	304.8	302.9
77.5°	2150.5	1626.9	910.7	658.2	405.8	316.0	289.9	265.5	261.8	273.0	269.3
80°	1181.9	946.2	577.8	435.7	276.8	231.9	228.1	215.1	220.7	239.4	235.6
82.5°	602.1	491.8	357.2	261.8	187.0	166.4	181.4	173.9	181.4	198.2	196.4
85°	297.3	269.3	226.3	159.0	123.4	106.6	129.0	134.6	138.4	151.5	151.5
87.5°	172.0	159.0	119.7	74.8	61.7	56.1	74.8	72.9	86.0	93.5	91.6
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)