

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: P191187

Luminaire Tested: **GAN-AF-09-LED-U-SL3-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191187
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-09-LED-U-SL3-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 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: 59719.9 lumens
Efficiency: N/A
Efficacy: 103.9 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

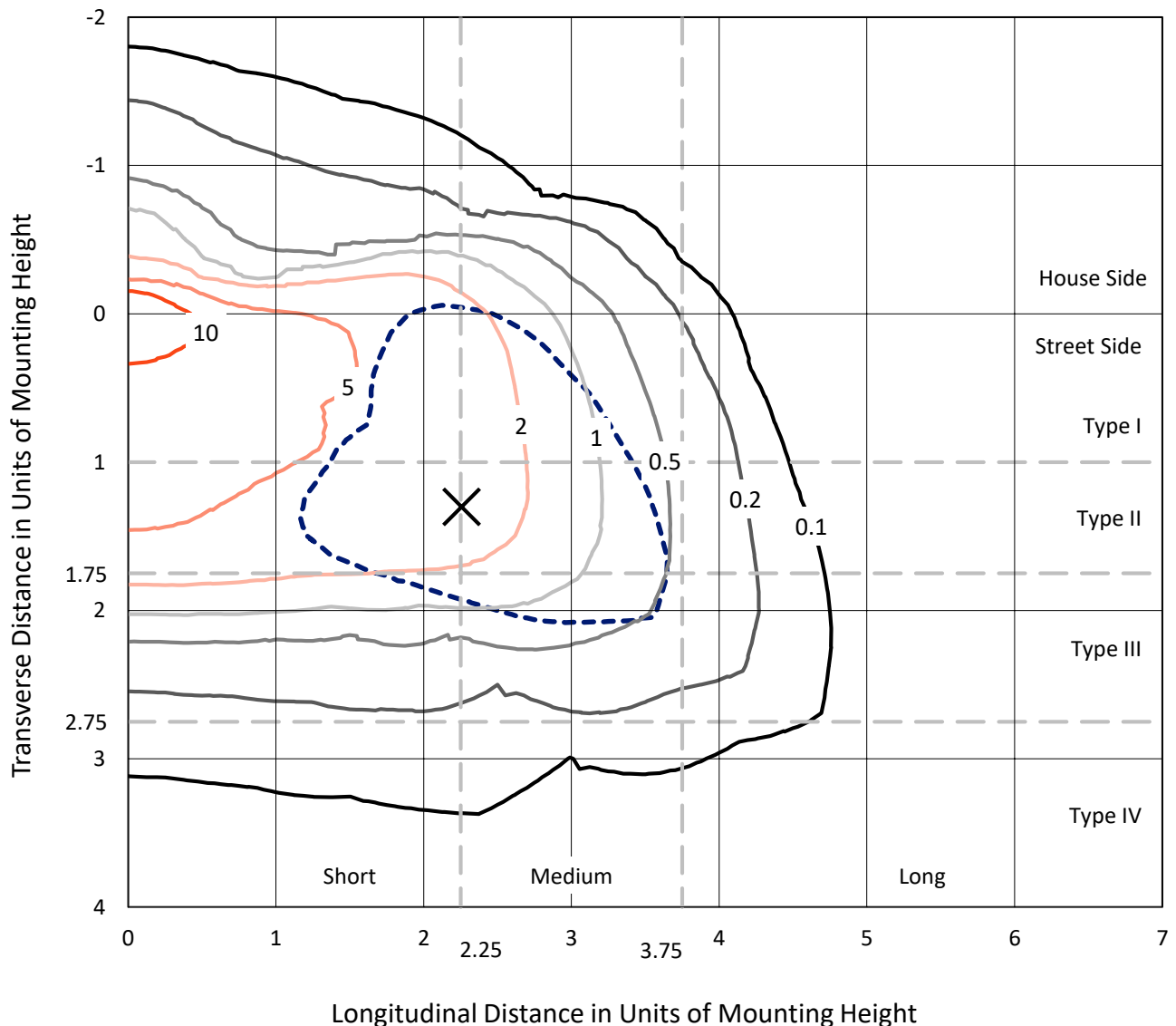
Input Watts (W): 575
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P191187
 CATALOG NUMBER: GAN-AF-09-LED-U-SL3-1200

Iso-Footcandle Lines of Horizontal Illumination

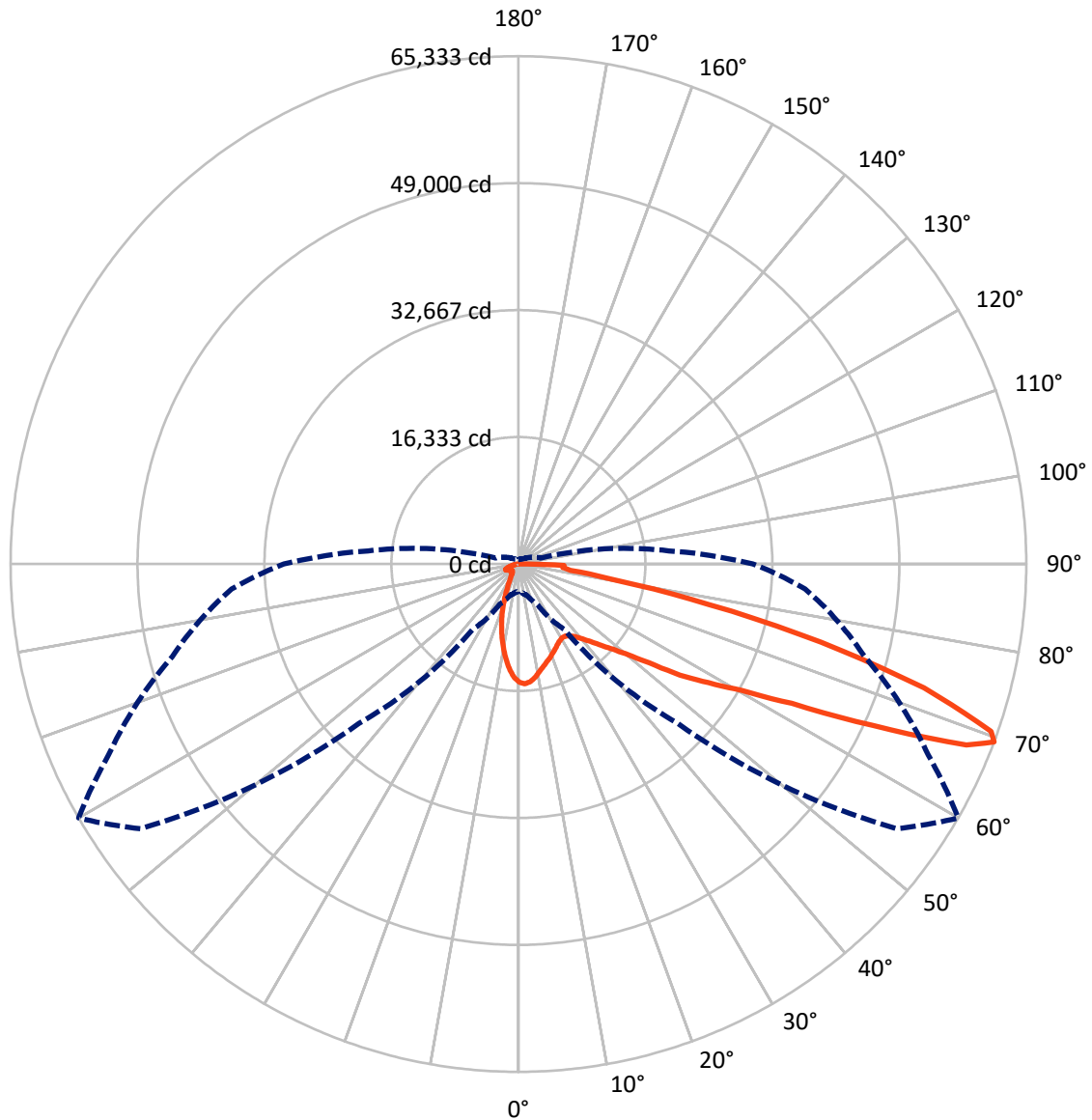
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 16.9 fc
 Type III - Medium - Non-Cutoff

REPORT NUMBER: P191187
CATALOG NUMBER: GAN-AF-09-LED-U-SL3-1200

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
House Side	Lumens	8496.3	0.0	8496.3
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	51223.6	0.0	51223.6
	% Fixture	85.8	0.0	85.8
Total	Lumens	59719.9	0.0	59719.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1286.7	2.2
10°-20°	2741.4	4.6
20°-30°	3493.0	5.8
30°-40°	4802.0	8.0
40°-50°	7791.7	13.0
50°-60°	12496.0	20.9
60°-70°	16631.2	27.8
70°-80°	8979.5	15.0
80°-90°	1498.3	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°	59719.9	100.0
0°-180°	59719.9	100.0

Coefficient of Utilization



REPORT NUMBER: P191187

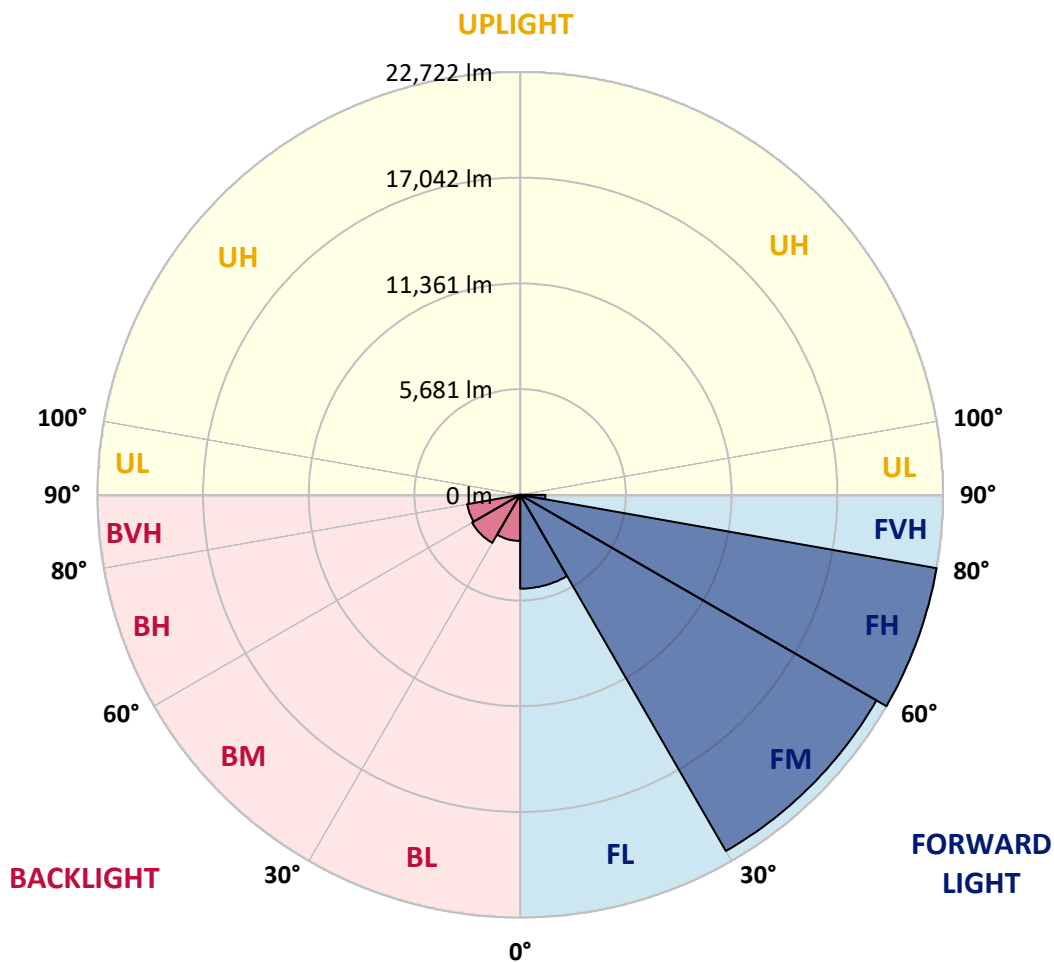
CATALOG NUMBER: GAN-AF-09-LED-U-SL3-1200

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5042.5	8.4			
FM	(30°-60°)	22104.8	37.0			
FH	(60°-80°)	22722.3	38.0			G5
FVH	(80°-90°)	1354.0	2.3			G5
BL	(0°-30°)	2478.6	4.2	B3/2500		
BM	(30°-60°)	2984.9	5.0	B3/5000		
BH	(60°-80°)	2888.5	4.8	B4/5000		G4/5000
BVH	(80°-90°)	144.3	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





REPORT NUMBER: P191187

CATALOG NUMBER: GAN-AF-09-LED-U-SL3-1200

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	15217.5	15217.5	15217.5	15217.5	15217.5	15217.5	15217.5	15217.5	15217.5	15217.5	15217.5
2.5°	15529.1	15563.7	15549.3	15540.7	15566.5	15526.2	15442.6	15416.6	15376.2	15281.0	15119.4
5°	14946.3	15050.2	15044.4	15122.3	15252.2	15286.8	15249.2	15255.1	15180.0	15061.7	14793.5
7.5°	13939.5	13982.8	14005.9	14176.1	14412.7	14603.0	14764.7	14816.5	14781.9	14681.0	14334.8
10°	12901.0	12935.6	12990.5	13189.5	13489.6	13752.0	14057.8	14233.8	14308.8	14291.5	13905.0
12.5°	12009.5	12044.2	12116.3	12341.4	12699.0	13022.2	13466.4	13685.6	13864.6	13971.3	13555.8
15°	11210.5	11285.5	11354.8	11614.4	12015.4	12439.4	12941.4	13218.4	13495.3	13734.8	13247.2
17.5°	10587.3	10662.3	10702.7	10939.3	11366.3	11885.6	12474.1	12800.1	13146.2	13538.5	12941.4
20°	10226.7	10261.4	10244.0	10376.8	10760.4	11311.5	12009.5	12387.5	12805.8	13353.9	12635.6
22.5°	10125.8	10128.6	10065.2	10050.8	10298.9	10763.4	11513.4	11972.1	12485.6	13232.8	12373.1
25°	10371.0	10362.4	10189.2	10047.9	10073.8	10345.0	11034.5	11568.2	12217.3	13206.8	12171.2
27.5°	10916.2	10942.2	10685.4	10420.1	10157.5	10148.9	10671.0	11233.5	11998.1	13325.1	12084.6
30°	11680.7	11724.0	11449.9	11112.4	10619.0	10212.3	10529.6	11034.5	11862.4	13570.3	12070.2
32.5°	12517.3	12563.5	12355.8	12001.0	11354.8	10604.6	10627.7	11051.9	11856.7	13913.6	12168.2
35°	13408.7	13460.7	13353.9	13053.9	12335.6	11328.8	11002.8	11331.6	12044.2	14438.6	12430.8
37.5°	14404.0	14484.8	14513.6	14228.0	13460.7	12283.7	11617.2	11862.4	12468.2	15168.5	12912.5
40°	15837.7	15950.3	15941.7	15532.0	14750.2	13573.1	12566.3	12629.9	13128.9	16143.6	13682.8
42.5°	18584.2	18607.2	17888.9	16997.5	16169.5	14929.0	13685.6	13633.8	14040.5	17378.3	14816.5
45°	22077.6	21982.5	20384.2	18662.0	17652.3	16486.9	15142.5	14888.6	15197.4	18884.2	16235.9
47.5°	24977.0	24757.7	22738.4	20361.2	19221.7	18180.3	16853.2	16408.9	16579.2	20592.0	18070.6
50°	25983.8	25819.3	24146.1	21774.7	20707.4	20245.8	18959.2	18330.3	18376.4	22628.7	20219.9
52.5°	25767.4	25744.3	24627.8	22706.5	22097.9	22415.2	21942.1	21091.1	20641.0	24890.4	22539.3
55°	25256.8	25305.9	24901.9	23791.3	23687.4	24509.6	25839.5	25210.6	23811.4	27172.3	24936.6
57.5°	23482.6	23609.5	24498.0	25155.8	26246.3	27469.4	28978.3	28799.3	27224.2	29638.9	27786.8
60°	18918.8	19213.1	21595.9	24890.4	28880.2	32705.5	33380.5	32965.1	30743.8	32699.6	31551.5
62.5°	13255.8	13561.7	16394.5	21549.8	28447.4	38619.4	41250.3	39458.8	35798.0	37208.7	36424.0
65°	7096.7	7243.8	9407.5	14952.2	24016.3	39839.6	52752.1	50026.0	43800.5	42767.7	40592.5
67.5°	3914.7	3995.5	4823.4	7549.6	15382.0	35082.5	60079.6	62139.5	53802.3	46469.0	39833.9
69°	3539.7	3614.7	4157.1	5717.8	10293.1	29007.1	59364.2	65333.0	58187.2	46102.7	37029.8
70°	3461.8	3531.0	4018.6	5270.7	8331.4	23909.5	56966.9	64516.6	59231.5	44790.0	34583.4
72.5°	3115.6	3190.6	3663.7	4734.0	7119.7	11920.1	45124.7	54549.5	53776.3	38835.7	26231.8
75°	2905.1	2974.2	3776.2	4635.9	6816.8	7543.9	29748.4	40203.1	39530.9	27166.5	14144.3
77.5°	1243.4	1237.6	1751.1	3923.4	6917.8	7304.4	15984.9	25115.4	22914.3	11611.5	4061.8
80°	830.8	816.4	830.8	1153.9	6343.7	7344.8	8374.7	12748.1	9629.5	2959.8	2002.1
82.5°	715.5	703.9	729.9	703.9	2229.9	8383.4	7119.7	6779.4	4578.2	1681.8	992.4
85°	481.8	461.6	628.9	631.8	1052.9	7448.6	8019.8	5726.4	3704.1	998.2	490.4
87.5°	230.8	225.0	366.4	447.1	617.4	3026.2	8997.8	5867.7	3735.8	510.7	233.6
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: P191187

CATALOG NUMBER: GAN-AF-09-LED-U-SL3-1200

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	15217.5	15217.5	15217.5	15217.5	15217.5	15217.5	15217.5	15217.5	15217.5	15217.5	15217.5
2.5°	15070.4	14952.2	14836.8	14698.3	14554.0	14392.5	14311.7	14230.9	14210.7	14187.6	14106.9
5°	14655.0	14487.6	14199.2	13881.9	13547.2	13221.2	12973.2	12817.4	12699.0	12638.5	12531.8
7.5°	14118.4	13873.2	13368.3	12820.2	12257.7	11744.2	11299.9	11020.0	10754.7	10630.6	10489.2
10°	13607.8	13241.4	12456.8	11649.0	10841.2	10065.2	9335.3	8819.0	8360.3	8103.5	7921.7
12.5°	13169.3	12667.3	11579.7	10486.4	9378.6	8273.7	7180.4	6320.7	5602.4	5224.4	5031.2
15°	12742.4	12136.5	10746.0	9358.5	7936.2	6433.2	4996.5	4021.4	3427.2	3190.6	3109.9
17.5°	12355.8	11579.7	9909.4	8221.8	6447.7	4630.2	3357.9	2821.4	2593.5	2515.5	2489.7
20°	11937.4	11017.2	9041.0	7033.2	4895.5	3236.8	2622.3	2385.7	2293.5	2270.3	2258.9
22.5°	11533.6	10463.4	8210.2	5761.1	3516.6	2498.3	2253.0	2154.9	2140.5	2160.8	2160.8
25°	11190.3	9967.1	7313.1	4431.1	2581.9	2103.1	2016.5	1993.4	2048.3	2123.2	2137.7
27.5°	10933.5	9560.4	6358.2	3271.4	2056.8	1829.0	1826.1	1863.6	1999.2	2143.4	2172.2
30°	10757.6	9173.8	5336.9	2359.8	1725.1	1609.7	1655.9	1736.7	1935.7	2140.5	2195.4
32.5°	10668.1	8888.2	4272.5	1826.1	1477.0	1413.6	1491.5	1589.6	1785.8	1976.1	2048.3
35°	10737.4	8677.6	3268.5	1523.2	1304.0	1255.0	1335.7	1430.9	1546.3	1627.0	1681.8
37.5°	10997.0	8593.9	2466.5	1364.5	1185.7	1139.5	1203.0	1257.8	1304.0	1327.1	1353.0
40°	11556.7	8683.3	1976.1	1283.8	1119.3	1061.6	1087.6	1107.8	1136.6	1159.7	1171.3
42.5°	12381.7	8951.6	1771.3	1252.0	1084.7	1001.1	995.2	1003.9	1041.5	1084.7	1093.3
45°	13535.7	9424.8	1756.9	1272.2	1067.3	952.0	926.1	937.5	995.2	1061.6	1073.2
47.5°	15009.9	10145.9	1872.3	1332.8	1081.8	926.1	882.8	897.2	969.3	1058.8	1073.2
50°	16795.5	11152.8	2065.5	1422.2	1145.3	931.8	868.4	877.0	952.0	1050.1	1064.5
52.5°	18904.3	12580.8	2276.2	1508.8	1211.6	969.3	879.8	859.7	928.9	1015.5	1032.8
55°	21249.8	14412.7	2492.5	1586.7	1246.3	1015.5	903.0	836.6	885.7	957.8	972.2
57.5°	24128.8	16974.4	2867.5	1661.7	1269.4	1047.2	926.1	813.6	830.8	882.8	894.3
60°	28026.2	20597.7	3528.2	1785.8	1321.2	1058.8	923.1	793.3	776.0	804.9	810.7
62.5°	32696.8	24532.7	4079.1	1941.5	1407.8	1067.3	905.8	778.9	729.9	729.9	735.6
65°	35469.1	25585.6	3773.4	2071.3	1479.9	1058.8	885.7	764.5	695.2	663.5	666.4
67.5°	33117.9	22501.7	3233.9	2097.3	1477.0	1018.3	854.0	738.5	660.6	611.6	608.7
69°	30172.5	19415.0	2991.6	2028.0	1407.8	966.4	813.6	709.6	634.6	582.8	579.8
70°	27798.3	17531.1	2833.0	1953.0	1332.8	928.9	781.8	683.7	614.5	565.4	559.7
72.5°	20211.2	11487.4	2420.4	1679.0	1099.2	778.9	675.0	600.1	548.1	519.2	513.5
75°	10099.8	5478.3	1964.6	1361.6	842.4	623.1	553.9	502.0	476.0	470.3	467.4
77.5°	3317.5	2509.8	1404.9	1015.5	626.0	487.5	447.1	409.7	403.9	421.1	415.4
80°	1823.2	1459.8	891.4	672.2	427.0	357.7	352.0	331.7	340.4	369.3	363.5
82.5°	928.9	758.7	551.0	403.9	288.5	256.8	279.9	268.3	279.9	305.8	302.9
85°	458.7	415.4	349.0	245.2	190.4	164.4	199.1	207.7	213.5	233.6	233.6
87.5°	265.5	245.2	184.6	115.4	95.2	86.5	115.4	112.5	132.7	144.2	141.4
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)