

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: P322573

Luminaire Tested: **GAN-SA9C-740-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322573
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9C-740-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44905 lumens
Efficiency: N/A
Efficacy: 89.6 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

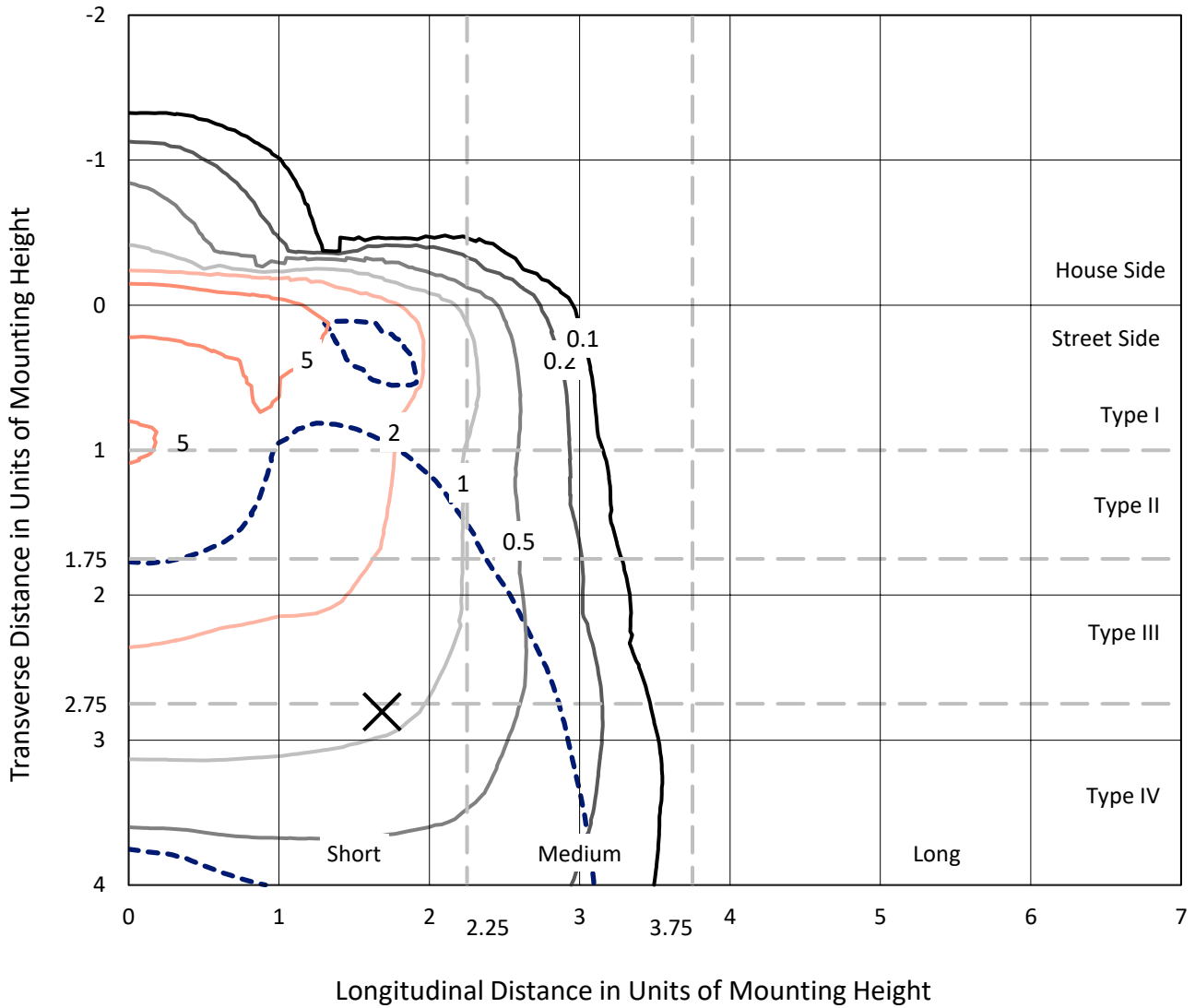
Input Watts (W): 501
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

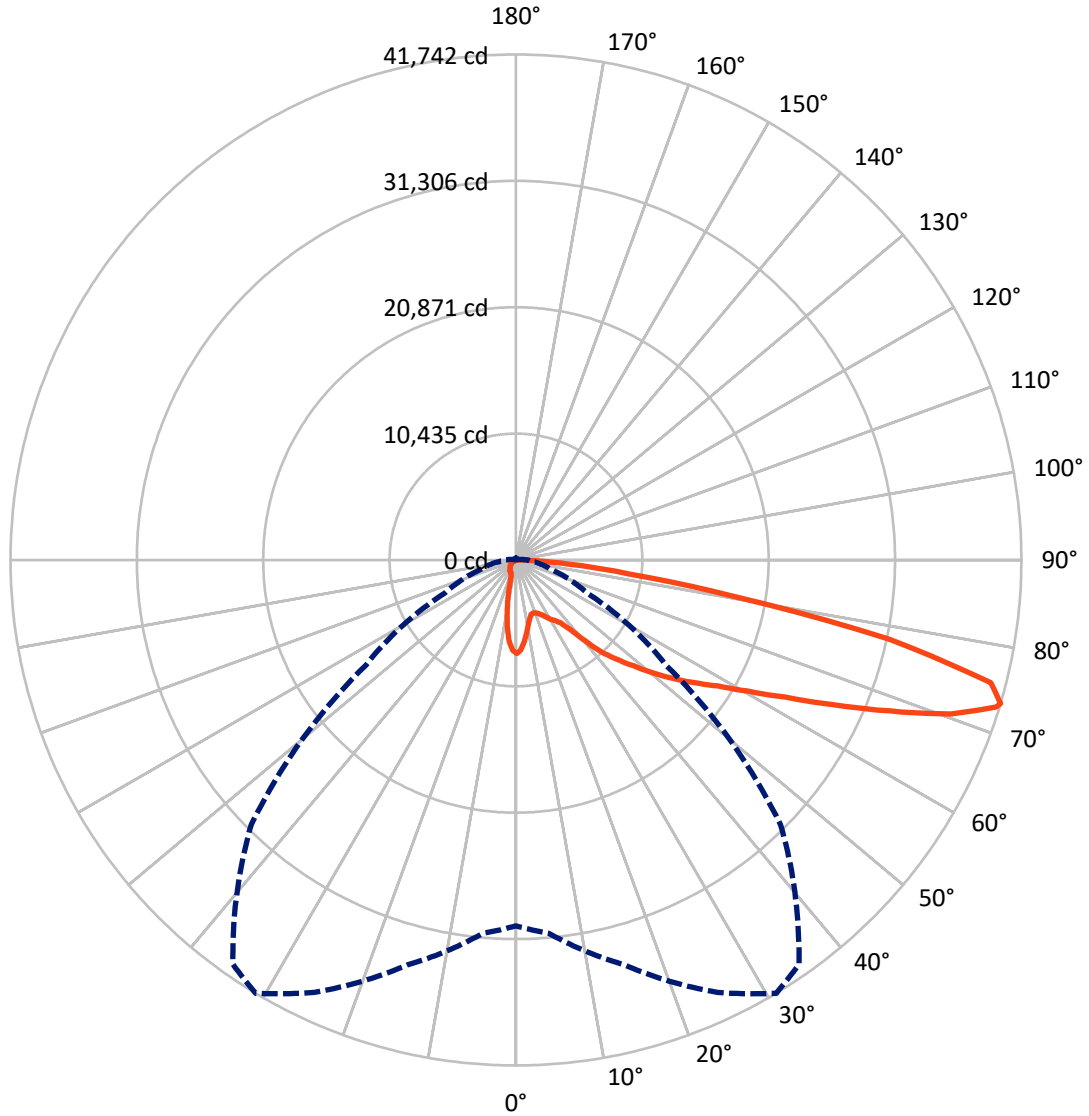
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 31-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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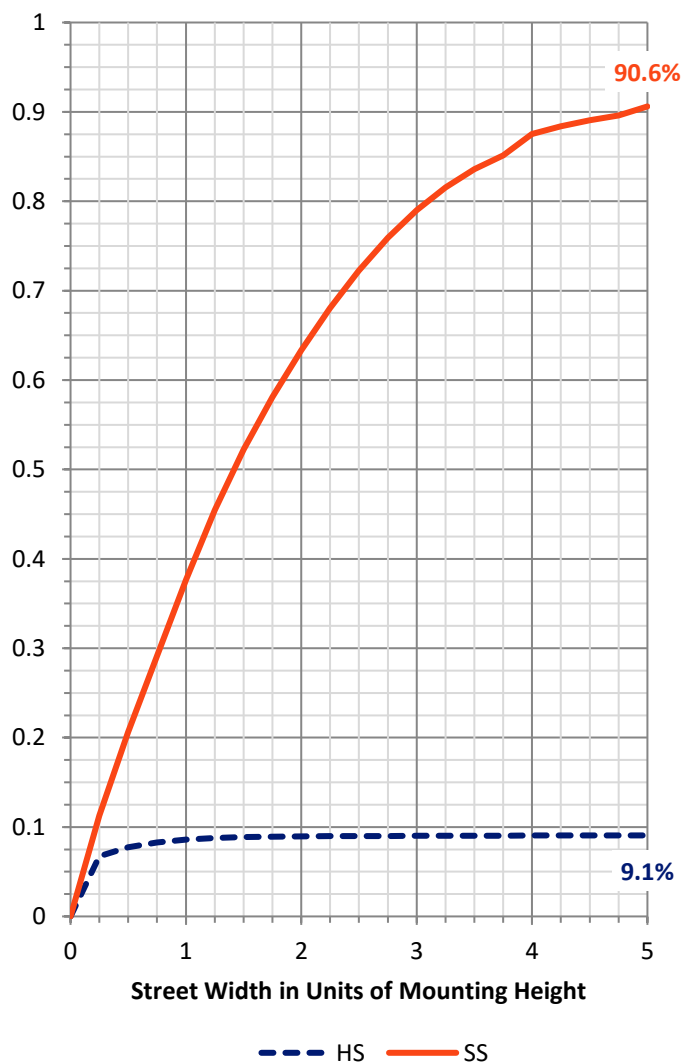
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4093.3	0.0	4093.3
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	40811.7	0.0	40811.7
	% Fixture	90.9	0.0	90.9
Total	Lumens	44905.0	0.0	44905.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	640.6	1.4
10°-20°	1390.9	3.1
20°-30°	2084.0	4.6
30°-40°	3315.6	7.4
40°-50°	5920.8	13.2
50°-60°	9187.4	20.5
60°-70°	12213.4	27.2
70°-80°	9187.0	20.5
80°-90°	965.4	2.1
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°	44905.0	100.0
0°-180°	44905.0	100.0

Coefficient of Utilization



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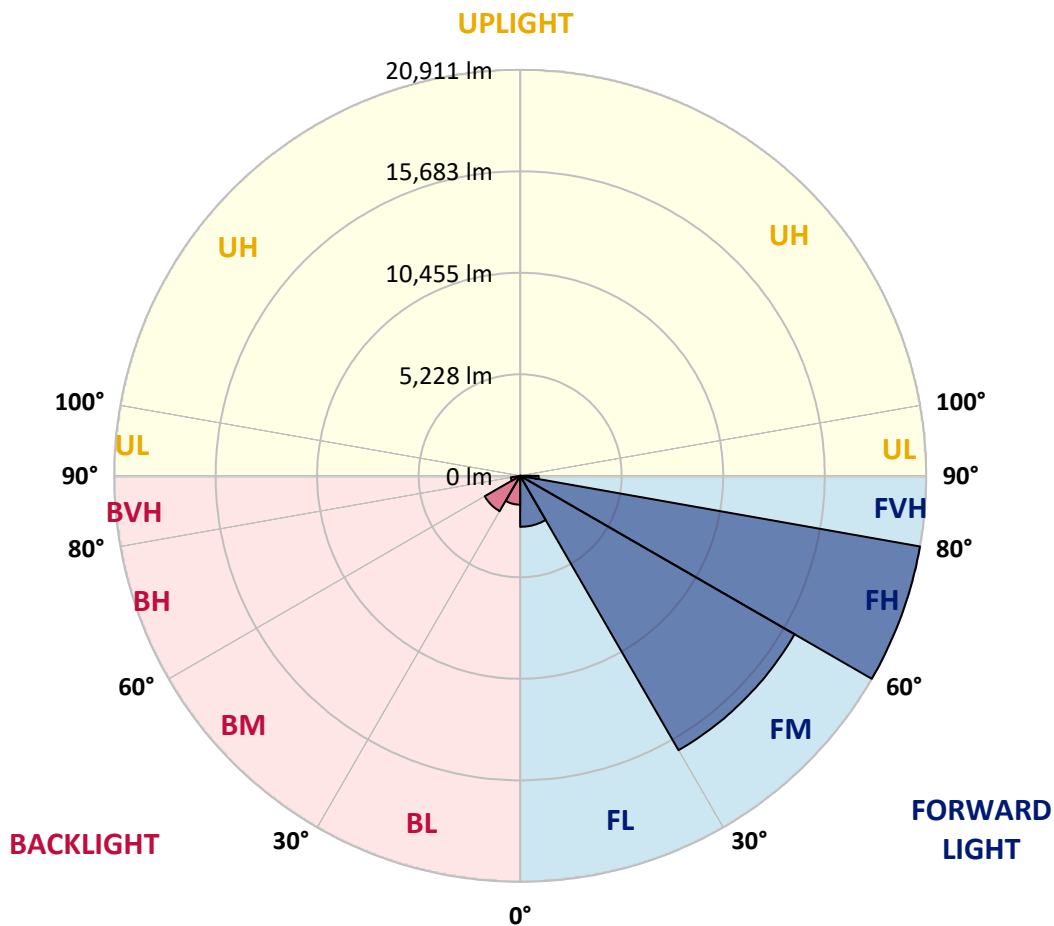
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2627.0	5.9			
FM (30°-60°)	16316.9	36.3			
FH (60°-80°)	20910.6	46.6			G5
FVH (80°-90°)	957.2	2.1			G5
BL (0°-30°)	1488.5	3.3	B3/2500		
BM (30°-60°)	2106.9	4.7	B2/2500		
BH (60°-80°)	489.7	1.1	B1/500		G1/500
BVH (80°-90°)	8.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	31°	35°	45°	55°	65°	75°	85°
0°	7726.0	7726.0	7726.0	7726.0	7726.0	7726.0	7726.0	7726.0	7726.0	7726.0	7726.0
2.5°	7321.7	7352.4	7385.4	7392.0	7446.9	7449.1	7528.2	7587.6	7646.9	7704.0	7723.8
5°	6570.2	6620.7	6680.0	6739.4	6855.8	6902.0	7095.3	7293.1	7482.1	7662.3	7750.2
7.5°	5768.1	5825.3	5908.8	6056.0	6185.6	6275.7	6581.2	6932.7	7284.3	7616.1	7807.3
10°	5036.4	5089.1	5177.0	5333.0	5533.0	5656.1	6067.0	6554.8	7071.2	7574.4	7893.0
12.5°	4570.6	4599.1	4647.5	4814.5	4994.7	5133.1	5616.5	6220.8	6895.4	7572.2	8031.4
15°	4484.9	4493.6	4454.1	4528.8	4669.4	4803.5	5293.5	5950.5	6761.3	7607.3	8211.6
17.5°	4621.1	4616.7	4484.9	4476.1	4588.1	4698.0	5135.3	5763.7	6666.9	7688.6	8444.5
20°	4827.6	4812.3	4583.7	4542.0	4660.6	4763.9	5124.3	5693.4	6631.7	7824.9	8728.0
22.5°	5102.3	5076.0	4717.8	4673.8	4801.3	4909.0	5260.5	5761.5	6662.5	8007.3	9057.6
25°	5442.9	5403.4	4948.5	4900.2	5029.8	5137.5	5504.4	5957.1	6754.8	8229.2	9475.1
27.5°	5827.5	5770.3	5317.7	5192.4	5339.6	5451.7	5829.7	6255.9	6899.8	8464.3	9987.1
30°	6190.0	6115.3	5706.6	5500.0	5680.2	5805.5	6181.2	6611.9	7132.7	8826.9	10688.1
32.5°	6554.8	6471.3	6053.8	5807.7	5970.3	6106.5	6543.8	7101.9	7570.0	9380.6	11619.8
35°	7394.2	7306.3	6794.3	6387.8	6385.6	6462.5	7051.4	7772.1	8147.9	10151.9	12731.6
37.5°	8807.1	8756.6	8268.8	7497.5	7290.9	7205.2	7743.6	8572.0	8978.5	11213.2	13986.3
40°	10354.1	10310.1	9763.0	9064.2	8750.0	8539.0	8736.8	9686.1	10151.9	12509.7	15267.4
42.5°	12101.0	11892.2	10916.6	10707.8	10426.6	10266.2	10088.2	11059.4	11593.4	13920.4	16537.5
45°	13687.5	13335.9	12070.2	11753.8	11690.1	11729.6	11828.5	12905.2	13215.1	15597.0	17803.2
47.5°	14632.4	14355.5	13384.3	13081.0	13063.4	13324.9	14072.0	14990.5	14830.1	17058.3	18917.3
50°	15531.1	15280.6	14474.2	14548.9	14630.2	14986.1	16618.8	17135.2	16304.6	18383.3	19939.0
52.5°	16258.4	15876.1	15454.2	15873.9	16273.8	16847.3	19246.9	19060.1	17350.5	19438.0	20813.6
55°	16678.1	16504.5	16708.9	17130.8	17882.3	18814.0	21727.7	20662.0	18115.2	20400.5	21395.9
57.5°	18216.3	17875.7	18282.2	18647.0	19627.0	20930.1	23852.6	21855.2	18666.8	20996.0	21530.0
60°	20077.5	19802.8	20042.3	20648.8	21971.6	23503.2	25839.0	22828.6	18954.6	21378.3	21182.8
62.5°	23039.6	22677.0	22527.6	23206.6	24960.1	26632.3	27346.4	23503.2	18890.9	21209.1	19991.8
65°	27008.0	26632.3	25964.3	26579.5	28809.9	29989.9	29031.8	23646.0	18451.4	19840.2	16981.4
67.5°	31073.2	30800.7	30229.4	31266.6	33279.4	33659.5	30813.9	23298.8	17036.3	16087.0	11997.7
70°	33758.4	33641.9	34013.3	36307.4	38102.6	37992.7	32448.7	21433.3	13278.8	9892.6	5935.1
72.5°	31822.5	32380.6	35123.0	39282.6	41475.6	40579.1	31609.3	16458.4	7589.8	3805.9	1716.2
73°	30218.4	30932.6	34624.2	39394.7	41741.5	40759.3	30904.0	15107.0	6469.1	3003.8	1300.9
75°	21022.4	21899.1	28664.9	36689.7	40497.8	38834.3	25759.9	9246.6	2997.2	1331.6	525.2
77.5°	10206.8	10855.1	15783.8	26509.2	31495.1	30341.5	16036.5	3445.5	1353.6	832.8	241.7
80°	3810.3	4236.6	6851.4	13491.9	18200.9	18677.8	7053.6	1303.0	900.9	670.2	123.1
82.5°	997.6	1111.9	2527.0	6016.4	9327.9	9763.0	2223.8	657.0	659.2	551.5	74.7
85°	318.6	364.8	788.9	2700.6	4394.8	3858.6	580.1	318.6	479.0	410.9	41.8
87.5°	39.6	50.5	250.5	635.0	969.0	538.4	90.1	94.5	204.4	228.5	24.2
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°	7726.0	7726.0	7726.0	7726.0	7726.0	7726.0	7726.0	7726.0	7726.0	7726.0	7726.0
2.5°	7743.6	7732.6	7734.8	7677.7	7640.3	7565.6	7488.7	7453.5	7416.2	7400.8	7416.2
5°	7783.1	7763.4	7706.2	7530.4	7343.7	7101.9	6875.6	6704.2	6488.9	6429.5	6491.1
7.5°	7844.7	7805.1	7638.1	7279.9	6864.6	6403.2	5884.6	5506.6	5196.8	4996.8	5069.4
10°	7934.7	7860.0	7523.8	6915.2	6172.4	5355.0	4618.9	4045.4	3638.9	3471.9	3465.3
12.5°	8086.4	7945.7	7383.2	6440.5	5326.5	4236.6	3271.9	2650.0	2320.4	2107.3	2102.9
15°	8253.4	8046.8	7205.2	5871.4	4342.0	3034.6	2107.3	1634.9	1421.7	1353.6	1344.8
17.5°	8457.7	8163.3	6974.5	5170.4	3311.5	2010.6	1375.6	1239.3	1230.5	1223.9	1223.9
20°	8714.8	8301.7	6677.8	4368.4	2349.0	1342.6	1169.0	1177.8	1182.2	1173.4	1175.6
22.5°	9013.7	8442.3	6324.1	3507.0	1588.7	1122.9	1118.5	1129.5	1133.8	1129.5	1131.7
25°	9360.8	8605.0	5893.4	2603.9	1147.0	1065.7	1076.7	1092.1	1103.1	1103.1	1103.1
27.5°	9791.5	8802.7	5374.8	1817.2	991.0	1006.4	1037.2	1065.7	1081.1	1085.5	1085.5
30°	10351.9	9048.8	4752.9	1245.9	900.9	927.3	984.4	1039.4	1067.9	1072.3	1074.5
32.5°	11059.4	9325.7	4032.2	920.7	824.0	843.8	905.3	997.6	1052.5	1061.3	1061.3
35°	11870.3	9646.5	3256.5	802.0	769.1	775.7	824.0	929.5	1026.2	1050.3	1052.5
37.5°	12758.0	9962.9	2476.5	749.3	722.9	722.9	758.1	848.2	962.5	1037.2	1046.0
40°	13586.4	10154.1	1735.9	707.6	681.2	681.2	712.0	777.9	885.5	997.6	1021.8
42.5°	14351.1	10220.0	1208.6	668.0	641.6	648.2	674.6	727.3	808.6	920.7	942.7
45°	15137.8	10209.0	881.2	621.9	602.1	621.9	641.6	681.2	740.5	804.2	808.6
47.5°	15731.1	10116.7	698.8	577.9	564.7	591.1	608.7	635.0	668.0	663.6	663.6
50°	16287.0	9892.6	562.5	518.6	527.4	558.1	566.9	575.7	577.9	536.2	531.8
52.5°	16708.9	9543.2	450.5	454.9	490.0	520.8	512.0	498.8	476.8	426.3	417.5
55°	16849.5	8870.8	353.8	375.8	435.1	474.6	441.7	413.1	371.4	329.6	320.8
57.5°	16594.6	8002.9	287.9	292.3	367.0	399.9	362.6	329.6	283.5	248.3	241.7
60°	16054.1	7038.2	237.3	219.7	283.5	312.0	287.9	254.9	213.1	186.8	184.6
62.5°	14981.8	6009.8	195.6	171.4	215.3	239.5	224.1	200.0	164.8	147.2	145.0
65°	12727.2	4807.9	158.2	138.4	167.0	186.8	173.6	156.0	129.6	116.5	114.3
67.5°	8884.0	3249.9	129.6	114.3	131.8	147.2	136.2	127.4	103.3	101.1	103.3
70°	4284.9	1566.7	107.7	92.3	103.3	114.3	109.9	103.3	98.9	114.3	131.8
72.5°	1228.3	525.2	85.7	76.9	83.5	90.1	94.5	92.3	107.7	138.4	160.4
73°	944.9	424.1	81.3	72.5	79.1	87.9	92.3	90.1	109.9	140.6	160.4
75°	404.3	204.4	61.5	59.3	65.9	76.9	81.3	81.3	109.9	142.8	153.8
77.5°	182.4	109.9	39.6	46.1	57.1	61.5	68.1	68.1	87.9	109.9	109.9
80°	103.3	59.3	30.8	35.2	41.8	41.8	41.8	37.4	39.6	43.9	48.3
82.5°	65.9	39.6	24.2	28.6	26.4	22.0	17.6	17.6	15.4	17.6	22.0
85°	37.4	22.0	22.0	17.6	11.0	8.8	11.0	8.8	2.2	0.0	2.2
87.5°	22.0	13.2	6.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)