

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: P322903

Luminaire Tested: **GAN-SA9D-740-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322903
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9D-740-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 50276 lumens
Efficiency: N/A
Efficacy: 87.4 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

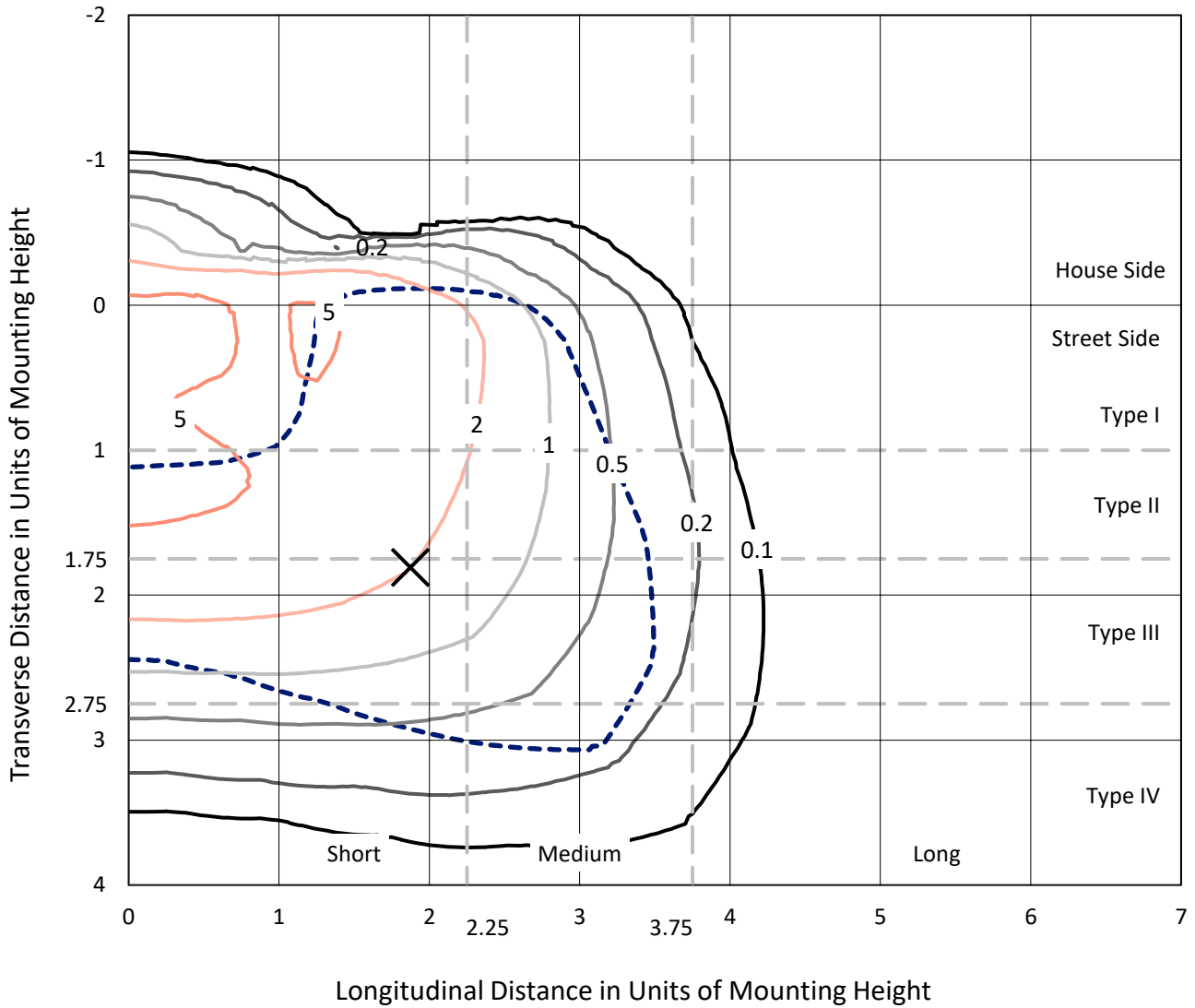
Input Watts (W): 575
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

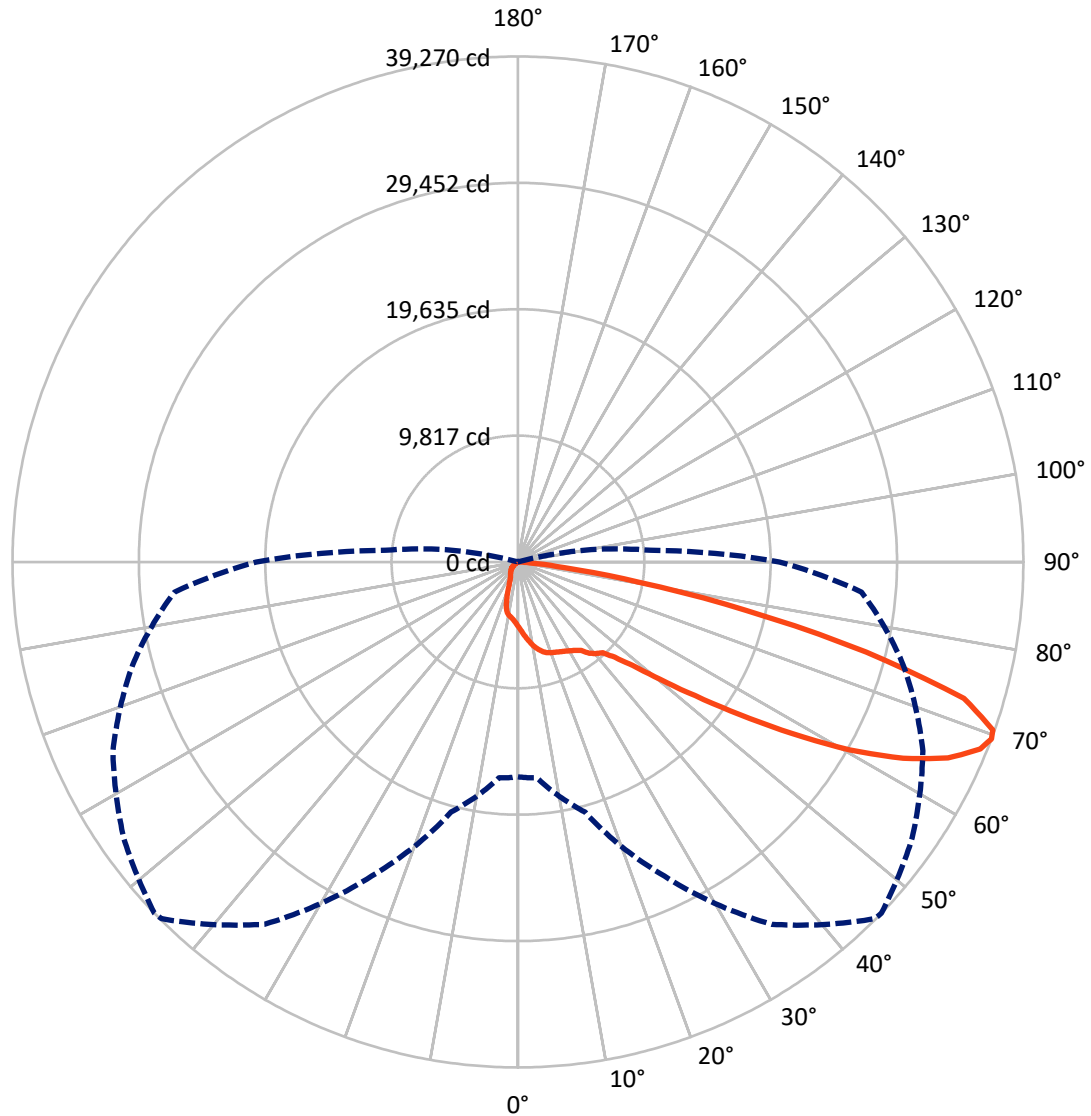
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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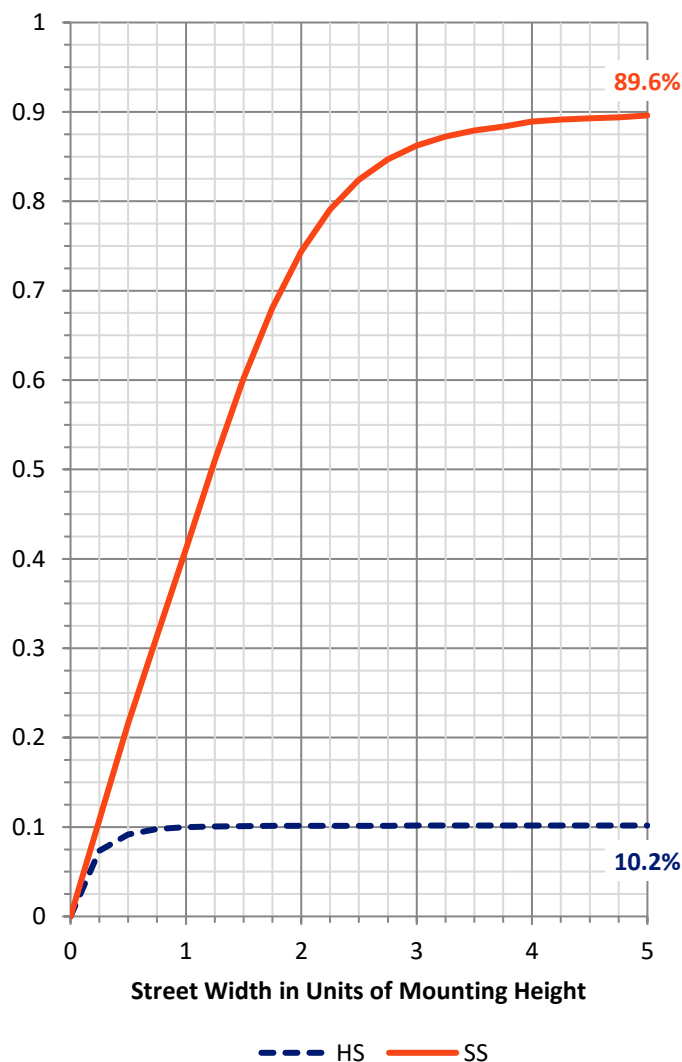
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5159.7	0.0	5159.7
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	45116.3	0.0	45116.3
	% Fixture	89.7	0.0	89.7
Total	Lumens	50276.0	0.0	50276.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	501.4	1.0
10°-20°	1521.1	3.0
20°-30°	2392.2	4.8
30°-40°	3430.5	6.8
40°-50°	5929.2	11.8
50°-60°	11713.6	23.3
60°-70°	16370.8	32.6
70°-80°	7908.9	15.7
80°-90°	508.3	1.0
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°	50276.0	100.0
0°-180°	50276.0	100.0

Coefficient of Utilization

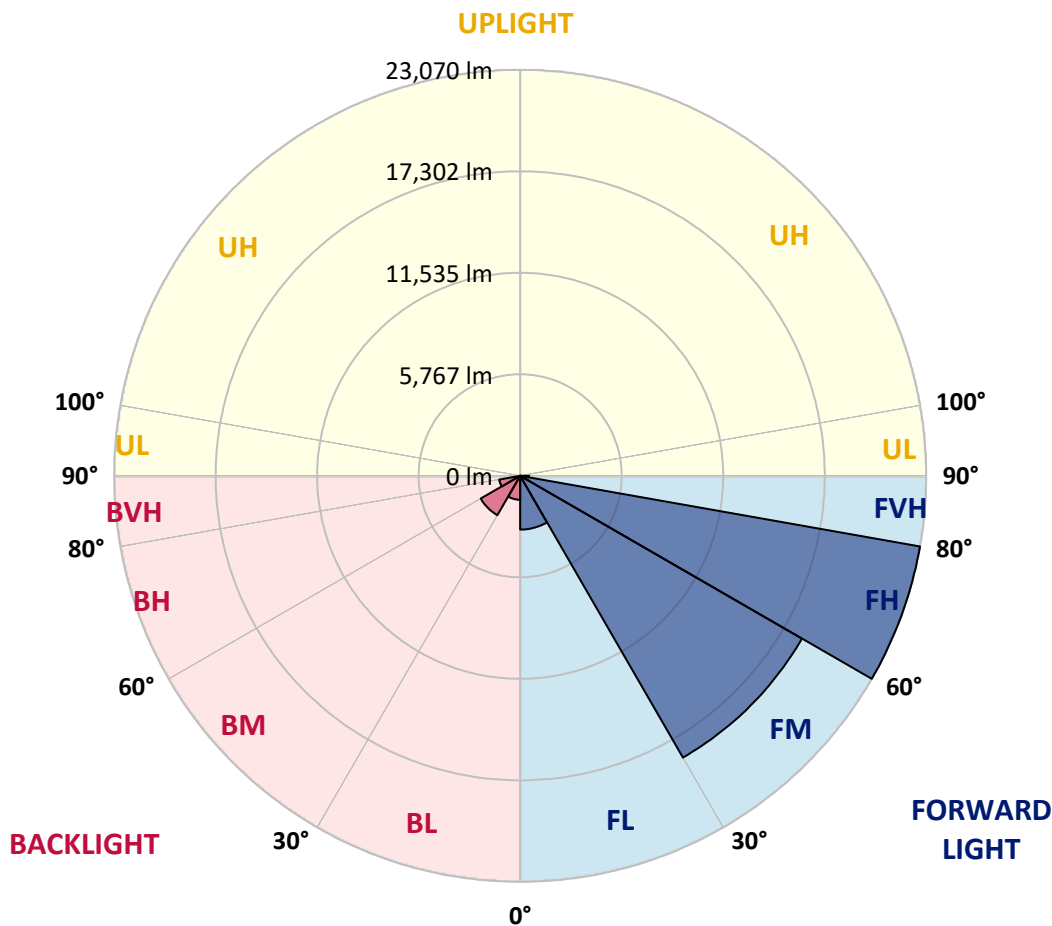


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3054.9	6.1			
FM (30°-60°)	18487.6	36.8			
FH (60°-80°)	23069.8	45.9			G5
FVH (80°-90°)	504.1	1.0			G4/750
BL (0°-30°)	1359.9	2.7	B3/2500		
BM (30°-60°)	2585.6	5.1	B3/5000		
BH (60°-80°)	1209.9	2.4	B3/2500		G3/2500
BVH (80°-90°)	4.3	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°	35°	45°	46°	55°	65°	75°	85°
0°	5037.5	5037.5	5037.5	5037.5	5037.5	5037.5	5037.5	5037.5	5037.5	5037.5	5037.5
2.5°	5596.1	5589.1	5556.1	5541.9	5461.8	5414.6	5395.8	5336.8	5252.0	5167.1	5072.8
5°	6232.6	6230.2	6169.0	6110.0	5959.2	5817.7	5791.8	5655.1	5464.1	5285.0	5105.8
7.5°	6883.2	6852.6	6791.3	6678.1	6458.9	6232.6	6211.4	6018.1	5747.0	5487.7	5230.8
10°	7434.8	7415.9	7335.8	7163.7	6906.8	6649.8	6623.9	6385.8	6079.4	5761.1	5433.5
12.5°	7863.8	7849.7	7743.6	7529.1	7255.7	6989.3	6953.9	6741.8	6414.1	6058.2	5671.6
15°	8125.5	8118.4	7988.8	7760.1	7491.4	7260.4	7229.7	7043.5	6739.4	6367.0	5930.9
17.5°	8186.8	8189.1	8054.8	7823.8	7602.2	7437.2	7413.6	7272.2	7017.6	6647.5	6190.2
20°	8050.0	8078.3	7958.1	7757.7	7621.0	7533.8	7514.9	7430.1	7215.6	6866.7	6397.6
22.5°	7856.8	7870.9	7788.4	7654.0	7597.5	7614.0	7604.5	7557.4	7375.9	7055.3	6602.7
25°	7738.9	7738.9	7689.4	7576.2	7614.0	7715.3	7717.7	7708.2	7564.5	7286.3	6852.6
27.5°	7734.2	7720.0	7663.5	7578.6	7682.3	7837.9	7847.3	7911.0	7821.4	7566.8	7163.7
30°	7922.8	7906.3	7786.0	7675.2	7807.2	7974.6	7998.2	8137.3	8092.5	7870.9	7510.2
32.5°	8363.6	8304.6	8038.3	7856.8	7955.8	8156.1	8186.8	8408.4	8479.1	8245.7	7845.0
35°	8967.0	8780.8	8396.6	8200.9	8210.3	8420.1	8448.4	8773.7	8983.5	8589.9	8104.3
37.5°	9799.1	9707.2	9082.5	8559.2	8601.6	8919.9	9002.4	9356.0	9297.0	8778.4	8398.9
40°	11623.7	11479.9	10815.1	9563.4	8976.5	9325.3	9351.3	9539.8	9544.6	9205.1	9011.8
42.5°	14108.2	14049.3	13349.2	11385.6	9714.3	9596.4	9643.6	9961.8	10317.7	10105.6	10096.1
45°	16859.1	16828.5	16086.0	13804.1	11206.4	10485.1	10544.0	10970.7	11651.9	11699.1	11998.5
47.5°	19072.6	19058.5	18631.8	16503.2	13490.6	11991.4	12010.2	12462.8	13660.3	14252.0	14730.5
50°	21090.4	21158.8	20821.7	19423.8	16602.2	14351.0	14306.2	14607.9	16531.5	17500.3	18094.3
52.5°	23895.6	23992.2	23046.9	22148.8	19867.0	17278.7	17243.4	17559.2	19982.5	20708.5	20814.6
55°	26373.0	26208.0	25460.8	25201.5	23848.4	20894.8	20885.3	21163.5	23320.4	23629.2	23824.8
57.5°	27466.8	27403.2	27763.8	28357.9	28018.4	25168.5	25147.3	24935.1	26307.0	26340.0	26941.1
60°	28157.5	28235.3	29340.8	31172.4	32018.7	29767.5	29630.8	28336.6	29159.3	29086.2	29729.8
62.5°	27638.9	27792.1	29781.6	32834.3	35012.4	33781.9	33588.6	31452.9	31596.7	31344.5	31943.2
65°	24885.6	25123.7	28383.8	32520.8	36497.5	36919.4	36723.8	34203.9	33532.0	33117.2	32784.8
67.5°	20206.4	20347.9	23751.8	29793.4	35828.0	38791.1	38751.0	36615.3	34993.5	32817.8	30238.9
69°	16698.8	16837.9	20114.5	26922.3	34354.7	39191.8	39269.6	37388.5	34715.4	30998.0	26792.6
70°	14143.6	14292.1	17344.7	24461.3	32645.7	39005.6	39144.7	37315.4	33918.6	28890.6	23768.3
72.5°	7418.3	7545.6	10678.4	16852.1	26613.5	35816.2	36238.2	34161.4	28751.5	20982.0	14054.0
75°	2331.3	2404.4	4170.0	8809.1	18221.6	27848.7	27945.3	26797.3	20416.2	11541.2	5853.1
77.5°	888.7	867.5	1388.4	3245.9	9212.2	17535.7	18127.3	16746.0	10713.8	4080.4	1350.7
80°	478.5	480.9	721.3	1343.6	3941.3	9011.8	9511.5	8116.1	3807.0	1272.9	311.2
82.5°	207.4	216.9	405.4	711.9	1810.4	3323.7	3573.6	2974.9	1454.4	855.7	115.5
85°	44.8	49.5	195.7	386.6	737.8	933.5	978.3	964.1	926.4	664.7	44.8
87.5°	0.0	0.0	87.2	139.1	186.2	212.2	186.2	242.8	511.5	447.9	23.6
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°	5037.5	5037.5	5037.5	5037.5	5037.5	5037.5	5037.5	5037.5	5037.5	5037.5	5037.5
2.5°	5042.2	4999.8	4926.7	4846.5	4790.0	4731.0	4683.9	4662.7	4639.1	4622.6	4643.8
5°	5032.8	4950.2	4808.8	4672.1	4573.1	4492.9	4426.9	4401.0	4375.1	4356.2	4353.9
7.5°	5115.3	4999.8	4782.9	4582.5	4429.3	4320.9	4231.3	4193.6	4162.9	4148.8	4137.0
10°	5273.2	5124.7	4834.7	4573.1	4375.1	4191.2	3997.9	3849.4	3752.8	3708.0	3691.5
12.5°	5478.3	5292.1	4933.7	4622.6	4335.0	3981.4	3571.3	3217.7	2989.0	2913.6	2868.8
15°	5718.7	5487.7	5063.4	4686.2	4188.9	3543.0	2847.6	2385.5	2173.4	2131.0	2083.8
17.5°	5949.7	5695.1	5219.0	4698.0	3868.3	2831.1	2086.2	1772.7	1690.2	1718.4	1725.5
20°	6152.5	5900.2	5372.2	4594.3	3286.0	2123.9	1614.7	1536.9	1567.6	1621.8	1631.2
22.5°	6357.5	6098.2	5513.6	4320.9	2541.1	1612.4	1454.4	1473.3	1503.9	1558.1	1567.6
25°	6607.4	6338.7	5645.6	3818.8	1907.0	1371.9	1381.4	1409.6	1440.3	1489.8	1494.5
27.5°	6895.0	6642.8	5732.9	3165.8	1414.4	1261.1	1291.8	1334.2	1364.9	1412.0	1421.4
30°	7276.9	7043.5	5761.1	2489.3	1185.7	1162.1	1176.3	1228.1	1272.9	1315.4	1322.4
32.5°	7635.2	7439.5	5666.9	1878.7	1098.5	1070.2	1070.2	1100.8	1152.7	1192.8	1202.2
35°	7965.2	7837.9	5365.1	1374.3	1032.5	985.3	961.8	961.8	994.8	1027.8	1037.2
37.5°	8401.3	8396.6	4877.2	1096.1	968.8	914.6	865.1	827.4	815.6	822.7	827.4
40°	9148.5	9155.6	4240.7	983.0	914.6	841.5	766.1	697.7	634.1	612.9	610.5
42.5°	10315.4	10209.3	3573.6	928.8	867.5	766.1	653.0	561.0	462.0	431.4	429.0
45°	12168.2	11538.8	2866.4	879.3	818.0	681.2	539.8	414.9	334.7	311.2	311.2
47.5°	14867.2	13285.5	2220.5	825.0	752.0	584.6	407.8	299.4	245.2	233.4	235.7
50°	17658.2	14996.9	1701.9	756.7	671.8	483.2	301.7	216.9	186.2	186.2	188.6
52.5°	20133.4	16251.0	1327.1	683.6	572.8	379.5	228.7	169.7	155.6	153.2	155.6
55°	22450.6	17059.5	1016.0	598.7	455.0	282.9	174.4	139.1	129.6	124.9	122.6
57.5°	24685.2	17460.2	761.4	483.2	330.0	205.1	139.1	117.9	108.4	101.4	99.0
60°	26172.7	17134.9	523.3	355.9	228.7	148.5	115.5	101.4	89.6	82.5	80.1
62.5°	27011.9	16246.2	337.1	256.9	162.7	110.8	91.9	84.9	68.4	61.3	61.3
65°	26672.4	14780.0	235.7	183.9	117.9	82.5	68.4	68.4	49.5	40.1	37.7
67.5°	23636.3	12486.4	179.2	136.7	84.9	61.3	51.9	58.9	30.6	18.9	18.9
69°	20336.1	10348.4	153.2	113.1	70.7	49.5	44.8	54.2	21.2	14.1	11.8
70°	17674.7	8926.9	139.1	99.0	58.9	42.4	40.1	51.9	21.2	11.8	9.4
72.5°	10574.7	4978.5	106.1	70.7	37.7	33.0	33.0	58.9	21.2	11.8	9.4
75°	4273.7	1753.8	77.8	49.5	28.3	28.3	40.1	75.4	18.9	9.4	7.1
77.5°	968.8	384.2	44.8	30.6	18.9	28.3	47.1	58.9	11.8	4.7	0.0
80°	235.7	94.3	28.3	18.9	11.8	21.2	35.4	33.0	2.4	0.0	0.0
82.5°	77.8	33.0	11.8	9.4	2.4	7.1	16.5	9.4	0.0	0.0	0.0
85°	33.0	18.9	4.7	2.4	0.0	0.0	2.4	0.0	0.0	0.0	0.0
87.5°	21.2	7.1	0.0	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)