

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: P321942

Luminaire Tested: **GAN-SA8D-740-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321942
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8D-740-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44238 lumens
Efficiency: N/A
Efficacy: 86.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G5

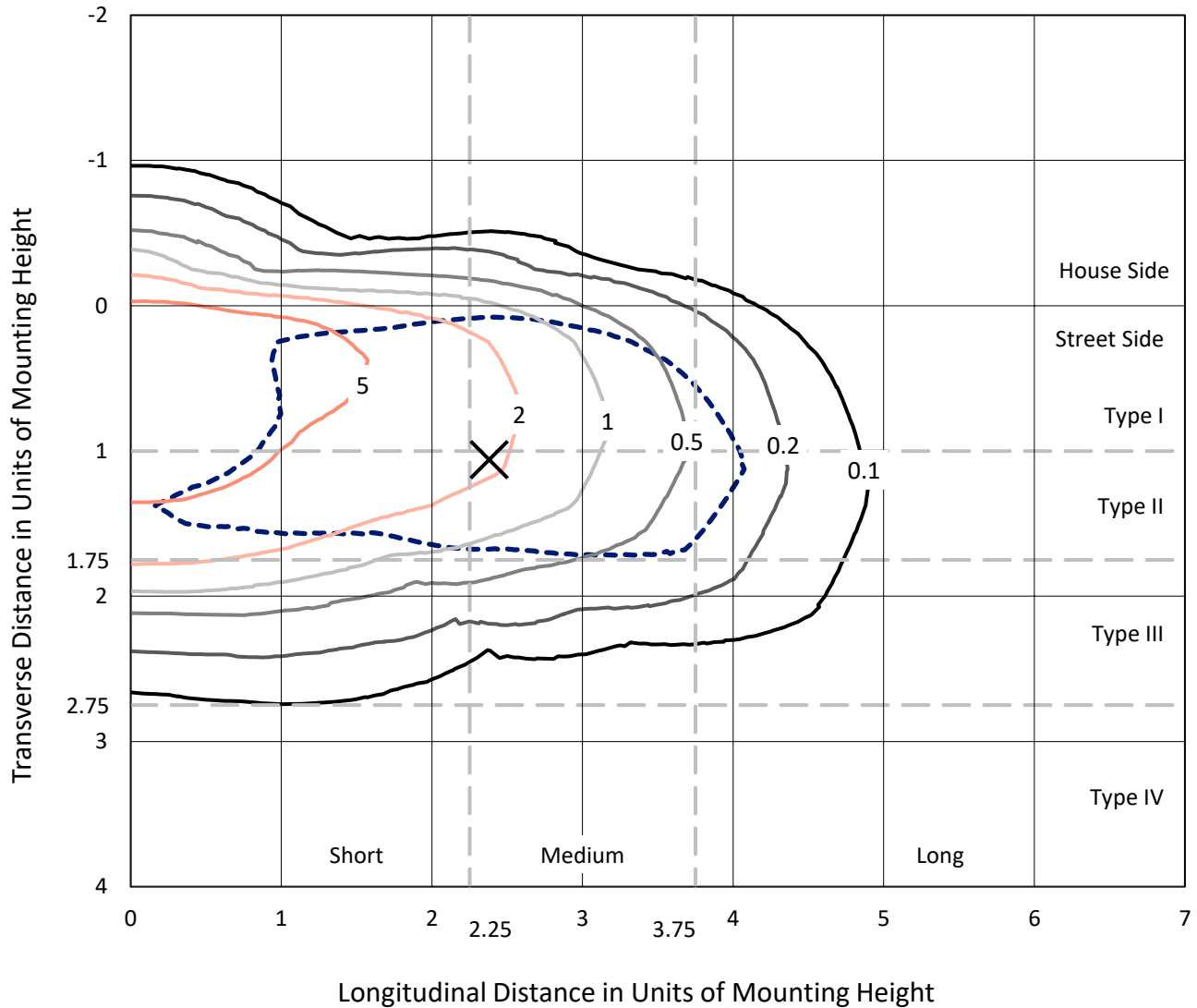
Input Watts (W): 511
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

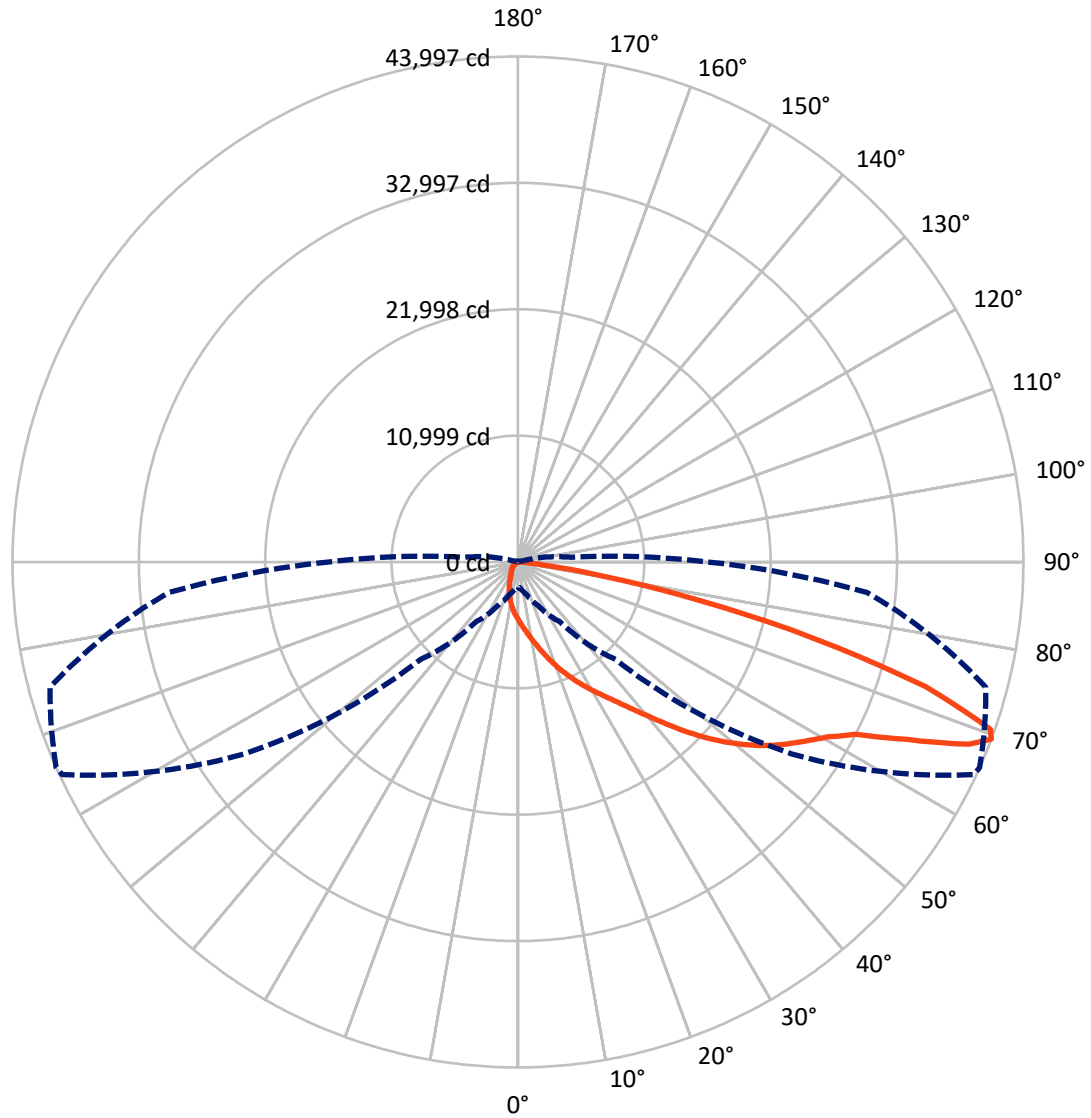
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.3 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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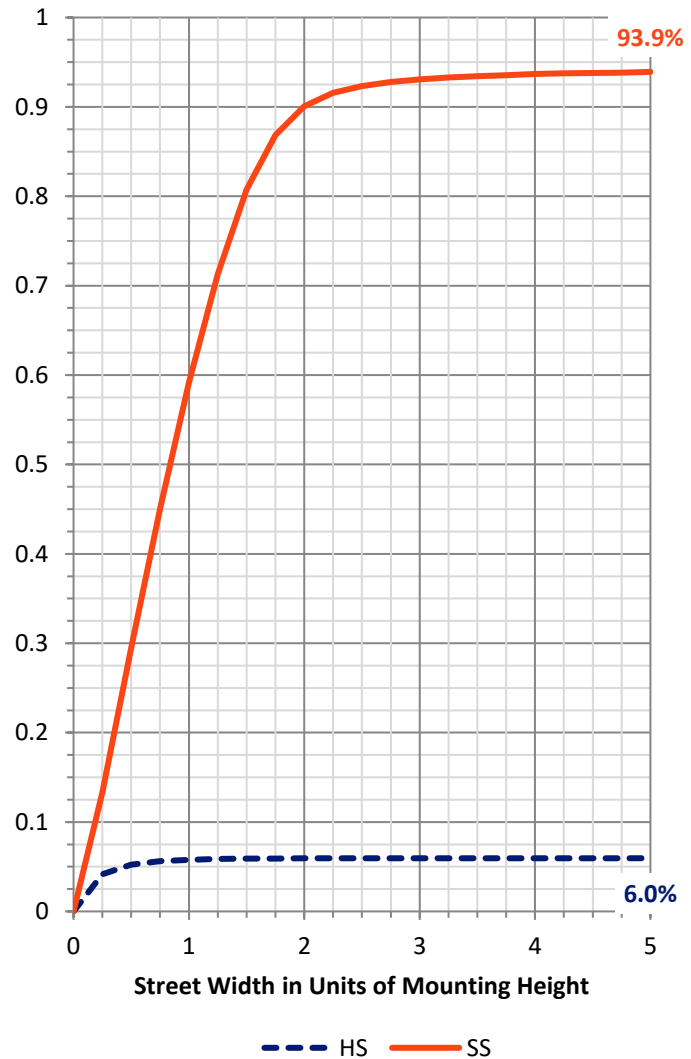
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2653.7	0.0	2653.7
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	41584.3	0.0	41584.3
	% Fixture	94.0	0.0	94.0
Total	Lumens	44238.0	0.0	44238.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	486.6	1.1
10°-20°	1448.3	3.3
20°-30°	2522.1	5.7
30°-40°	4425.0	10.0
40°-50°	7406.8	16.7
50°-60°	10887.3	24.6
60°-70°	11178.5	25.3
70°-80°	5518.5	12.5
80°-90°	364.9	0.8
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°	44238.0	100.0
0°-180°	44238.0	100.0

Coefficient of Utilization



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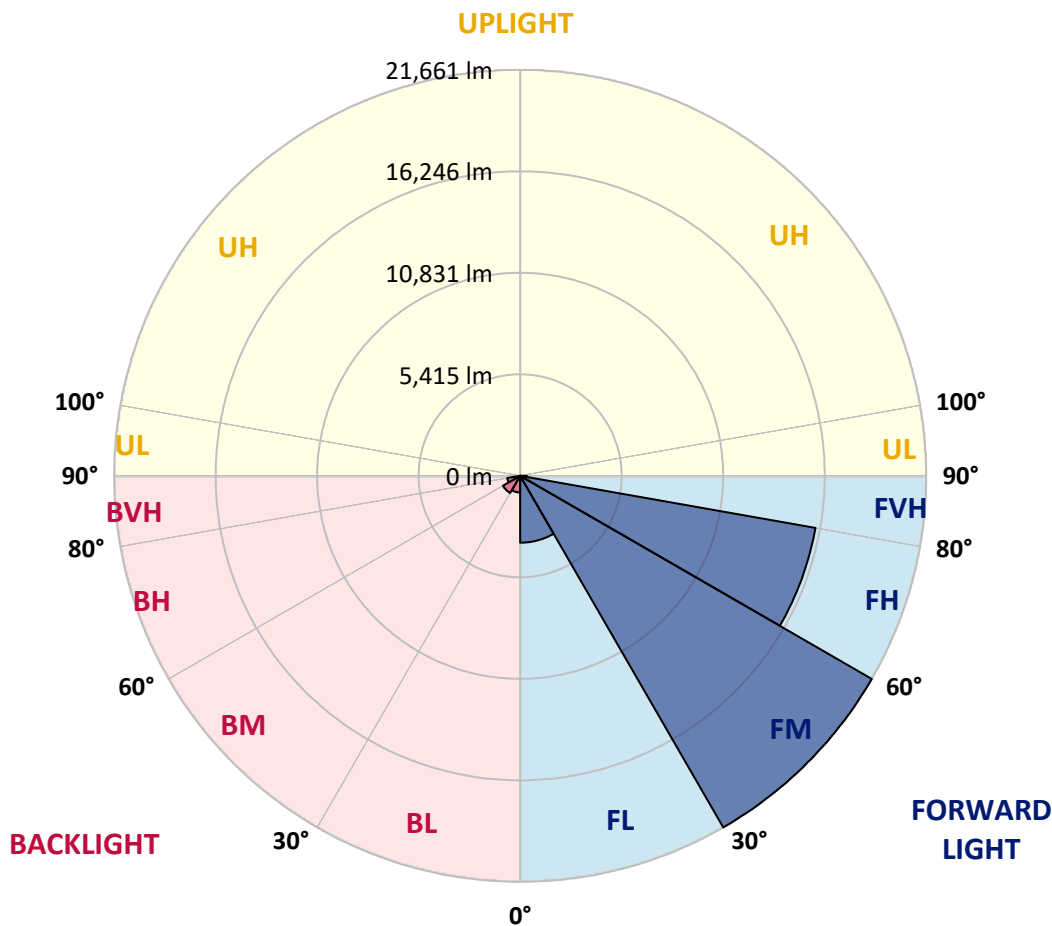
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3569.6	8.1			
FM (30°-60°)	21661.0	49.0			
FH (60°-80°)	15997.7	36.2			G5
FVH (80°-90°)	356.1	0.8			G3/500
BL (0°-30°)	887.5	2.0	B2/1000		
BM (30°-60°)	1058.0	2.4	B2/2500		
BH (60°-80°)	699.3	1.6	B2/1000		G2/1000
BVH (80°-90°)	8.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	5034.4	5034.4	5034.4	5034.4	5034.4	5034.4	5034.4	5034.4	5034.4	5034.4	5034.4
2.5°	5925.3	5900.1	5889.6	5843.4	5763.5	5702.6	5584.9	5448.4	5423.1	5290.8	5129.0
5°	6694.4	6673.3	6658.6	6593.5	6511.6	6358.2	6143.8	5889.6	5841.3	5589.1	5265.6
7.5°	7230.2	7268.0	7268.0	7226.0	7123.0	7007.4	6744.8	6398.1	6337.2	5950.5	5448.4
10°	7543.2	7589.5	7625.2	7660.9	7646.2	7600.0	7352.0	6961.2	6887.7	6375.0	5660.6
12.5°	7572.7	7618.9	7719.7	7868.9	8013.9	8119.0	7963.5	7585.3	7501.2	6866.7	5912.7
15°	7408.8	7457.1	7612.6	7902.5	8253.4	8560.2	8610.6	8276.5	8190.4	7452.9	6227.9
17.5°	7123.0	7154.5	7377.2	7778.6	8329.1	8892.2	9196.9	9018.3	8938.4	8123.2	6578.8
20°	6910.8	6933.9	7129.3	7560.0	8282.9	9100.2	9751.6	9806.2	9722.2	8841.8	6959.1
22.5°	7274.3	7316.3	7322.6	7526.4	8156.8	9203.2	10239.0	10581.5	10518.5	9604.5	7333.1
25°	8268.1	8316.5	8156.8	8030.7	8263.9	9249.4	10657.2	11375.8	11325.4	10426.1	7709.2
27.5°	9581.4	9631.8	9425.9	9049.8	8825.0	9423.8	11029.1	12182.6	12180.5	11295.9	8114.8
30°	10871.5	10921.9	10711.8	10335.7	9818.8	9917.6	11350.6	13027.3	13039.9	12193.1	8545.5
32.5°	12224.7	12287.7	12071.3	11588.0	11048.0	10770.6	11802.3	13876.2	13947.6	13233.2	9030.9
35°	13762.7	13771.1	13466.5	12960.1	12338.1	11911.6	12527.2	14828.0	14998.2	14521.3	9646.5
37.5°	15271.4	15332.3	15082.3	14283.8	13712.3	13229.0	13605.1	16017.3	16258.9	16095.0	10451.3
40°	16389.2	16517.4	16481.7	15620.2	15078.1	14733.5	14943.6	17431.4	17738.2	17927.3	11466.1
42.5°	17091.0	17187.6	17351.5	16832.6	16340.9	16397.6	16523.7	19078.7	19456.9	20015.8	12632.3
45°	17895.7	17942.0	18078.5	17849.5	17517.5	18089.1	18200.4	20934.1	21331.2	22262.0	13926.6
47.5°	18879.1	18988.4	19026.2	18816.1	18664.8	19585.1	19816.2	22621.3	23178.1	24667.8	15296.6
50°	20131.4	20160.8	20226.0	20089.4	19938.1	20871.0	21266.0	24392.6	24899.0	27082.1	16647.6
52.5°	21356.4	21461.4	21688.4	21602.2	21541.3	21965.7	22558.3	25989.5	26554.7	29095.0	17996.6
55°	21709.4	21799.7	22583.5	23119.3	23615.2	23314.7	23793.8	27420.4	28031.8	30893.6	19295.1
57.5°	20299.5	20482.3	21839.7	23234.8	25291.9	25411.7	25491.5	28889.1	29437.5	32272.0	20646.2
60°	16735.9	16771.6	18998.9	21392.1	25014.5	27241.8	27970.9	30467.1	30927.3	33555.8	22264.1
62.5°	10644.6	11008.1	13451.8	16830.4	22081.3	26977.0	30969.3	32854.0	33022.1	35096.0	24583.8
65°	5070.1	5305.5	7066.3	10398.7	15994.2	23587.8	33038.9	37172.0	37247.6	38149.0	27683.0
67.5°	2807.2	2920.6	3759.0	5597.5	9350.2	16681.3	32202.7	42286.2	42357.7	41267.2	30402.0
69°	2195.7	2292.4	2952.2	4219.2	6339.3	11989.3	29141.3	43784.4	43996.6	42160.2	30498.6
70°	1863.7	1958.3	2542.4	3563.6	5097.5	9264.1	25939.1	43412.5	43637.3	42076.1	29777.9
72.5°	1140.9	1195.6	1693.6	2508.8	3416.5	4660.4	15996.3	36713.9	37094.2	38596.6	25592.4
75°	769.0	798.4	1059.0	1731.4	2443.7	2399.5	8310.2	25878.1	26701.8	30023.8	18902.2
77.5°	550.5	577.8	710.2	1119.9	1712.5	1584.3	3763.2	16082.4	16258.9	18007.1	10308.4
80°	313.1	338.3	502.2	666.1	1162.0	1056.9	1496.0	7681.9	7770.2	7721.8	3441.7
82.5°	163.9	184.9	275.3	439.1	745.9	691.3	621.9	2571.8	2584.5	2149.5	754.3
85°	31.5	37.8	136.6	300.5	384.5	300.5	254.2	603.0	615.6	544.2	187.0
87.5°	0.0	2.1	54.6	67.2	75.6	77.7	81.9	117.7	126.1	170.2	50.4
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°	5034.4	5034.4	5034.4	5034.4	5034.4	5034.4	5034.4	5034.4	5034.4	5034.4	5034.4
2.5°	5057.5	4981.9	4836.9	4668.8	4538.5	4410.4	4309.5	4204.5	4166.6	4147.7	4145.6
5°	5108.0	4948.3	4641.5	4326.3	4067.9	3824.1	3649.7	3483.8	3406.0	3370.3	3355.6
7.5°	5192.0	4935.7	4441.9	3960.7	3588.8	3284.1	3042.5	2861.8	2771.5	2733.6	2718.9
10°	5290.8	4918.9	4208.7	3574.1	3099.2	2784.1	2544.5	2365.9	2267.2	2225.1	2204.1
12.5°	5406.3	4889.4	3939.7	3183.3	2681.1	2365.9	2076.0	1855.3	1741.9	1693.6	1670.4
15°	5549.2	4860.0	3658.2	2815.6	2313.4	1928.9	1611.6	1462.4	1439.3	1430.9	1433.0
17.5°	5690.0	4813.8	3351.4	2452.1	1926.8	1506.5	1344.8	1336.4	1340.6	1340.6	1340.6
20°	5816.1	4708.7	3017.3	2141.1	1559.1	1271.2	1237.6	1222.9	1212.4	1204.0	1193.5
22.5°	5914.8	4568.0	2695.8	1832.2	1273.3	1164.1	1111.5	1065.3	1027.5	1002.3	989.7
25°	5982.1	4381.0	2401.6	1536.0	1145.1	1059.0	964.4	886.7	827.9	792.1	777.4
27.5°	6032.5	4179.2	2139.0	1285.9	1056.9	937.1	813.2	720.7	659.8	628.3	615.6
30°	6068.2	3950.2	1907.9	1130.4	958.1	809.0	676.6	586.2	542.1	525.3	516.9
32.5°	6101.8	3696.0	1689.3	1056.9	865.7	691.3	567.3	498.0	470.7	449.7	443.3
35°	6185.9	3460.6	1481.3	979.1	771.1	590.4	487.5	437.0	409.7	397.1	392.9
37.5°	6385.5	3286.2	1281.7	899.3	676.6	510.6	426.5	390.8	365.6	353.0	348.8
40°	6707.0	3198.0	1113.6	813.2	584.1	449.7	386.6	353.0	325.7	306.8	302.6
42.5°	7179.7	3210.6	996.0	727.0	510.6	401.3	348.8	308.9	279.5	262.6	258.4
45°	7753.4	3303.1	914.0	643.0	449.7	363.5	306.8	264.7	237.4	222.7	218.5
47.5°	8375.3	3452.2	846.8	567.3	401.3	327.8	264.7	220.6	197.5	184.9	182.8
50°	9030.9	3597.2	777.4	493.8	359.3	292.1	222.7	182.8	163.9	153.4	149.2
52.5°	9694.8	3765.3	714.4	426.5	323.6	250.0	184.9	149.2	134.5	126.1	121.9
55°	10409.2	3891.4	653.5	374.0	287.9	212.2	153.4	124.0	111.4	100.9	98.8
57.5°	11249.7	4086.8	590.4	323.6	245.8	176.5	126.1	98.8	88.2	77.7	75.6
60°	12384.4	4315.8	523.2	285.8	201.7	145.0	103.0	79.8	67.2	58.8	56.7
62.5°	13880.4	4570.1	439.1	250.0	163.9	117.7	81.9	63.0	48.3	37.8	37.8
65°	15777.8	4984.0	359.3	210.1	134.5	96.7	63.0	46.2	27.3	16.8	16.8
67.5°	16885.1	5055.4	290.0	172.3	109.3	81.9	52.5	31.5	8.4	2.1	0.0
69°	16530.0	4641.5	245.8	147.1	94.6	77.7	48.3	23.1	4.2	0.0	0.0
70°	15861.8	4244.4	216.4	130.3	86.1	73.5	46.2	16.8	4.2	0.0	0.0
72.5°	13107.2	3021.5	163.9	96.7	63.0	65.1	42.0	10.5	4.2	0.0	0.0
75°	9547.8	1836.4	117.7	67.2	39.9	48.3	29.4	4.2	2.1	0.0	0.0
77.5°	5311.8	865.7	73.5	37.8	25.2	29.4	14.7	0.0	0.0	0.0	0.0
80°	1725.1	235.3	33.6	21.0	14.7	16.8	6.3	0.0	0.0	0.0	0.0
82.5°	319.4	67.2	18.9	10.5	4.2	4.2	0.0	0.0	0.0	0.0	0.0
85°	69.3	27.3	10.5	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	23.1	8.4	2.1	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)