

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: P321224

Luminaire Tested: **GAN-SA0D-727-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321224
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-9)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0D-727-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 51841 lumens
Efficiency: N/A
Efficacy: 81.0 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G5

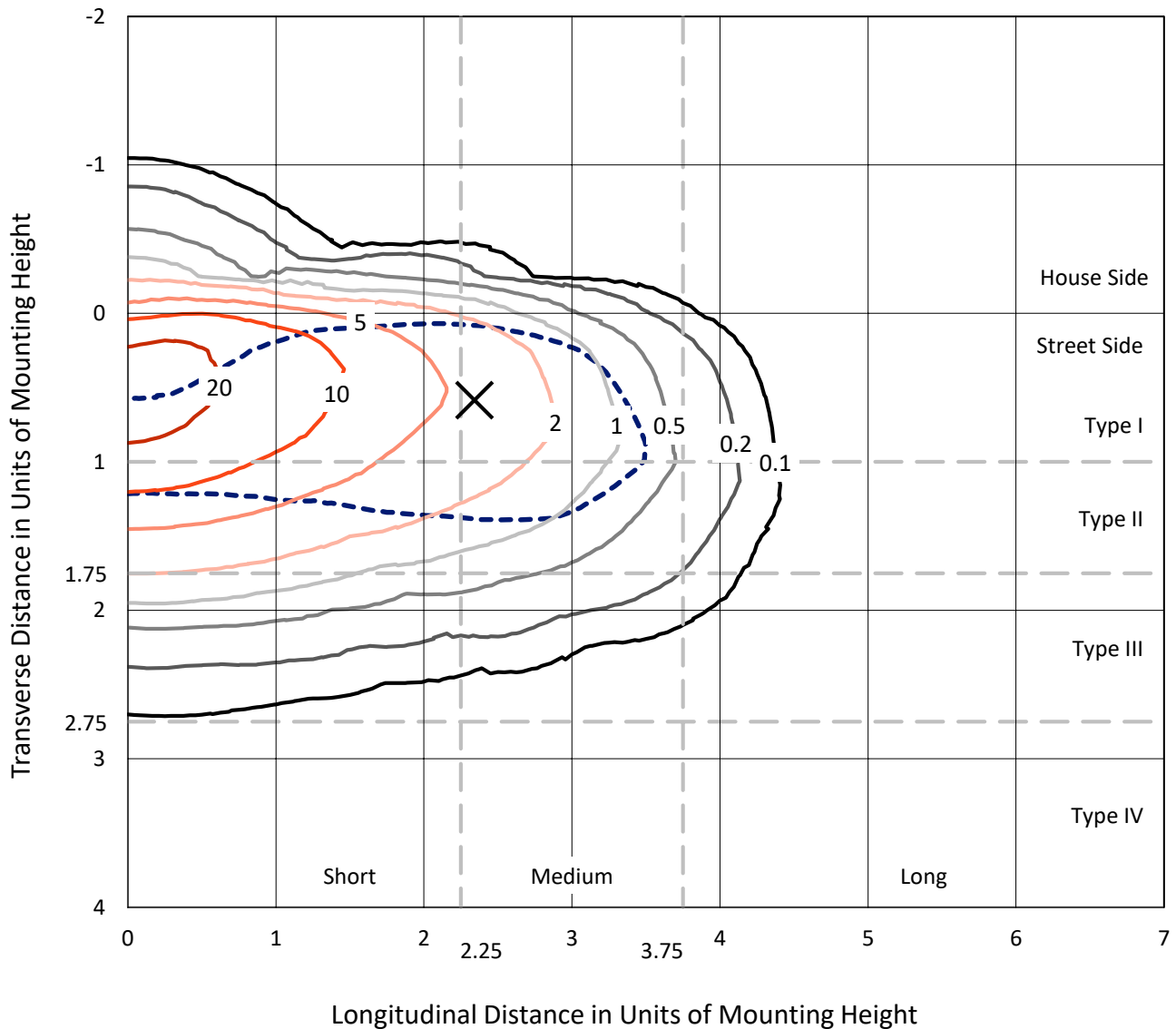
Input Watts (W): 640
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

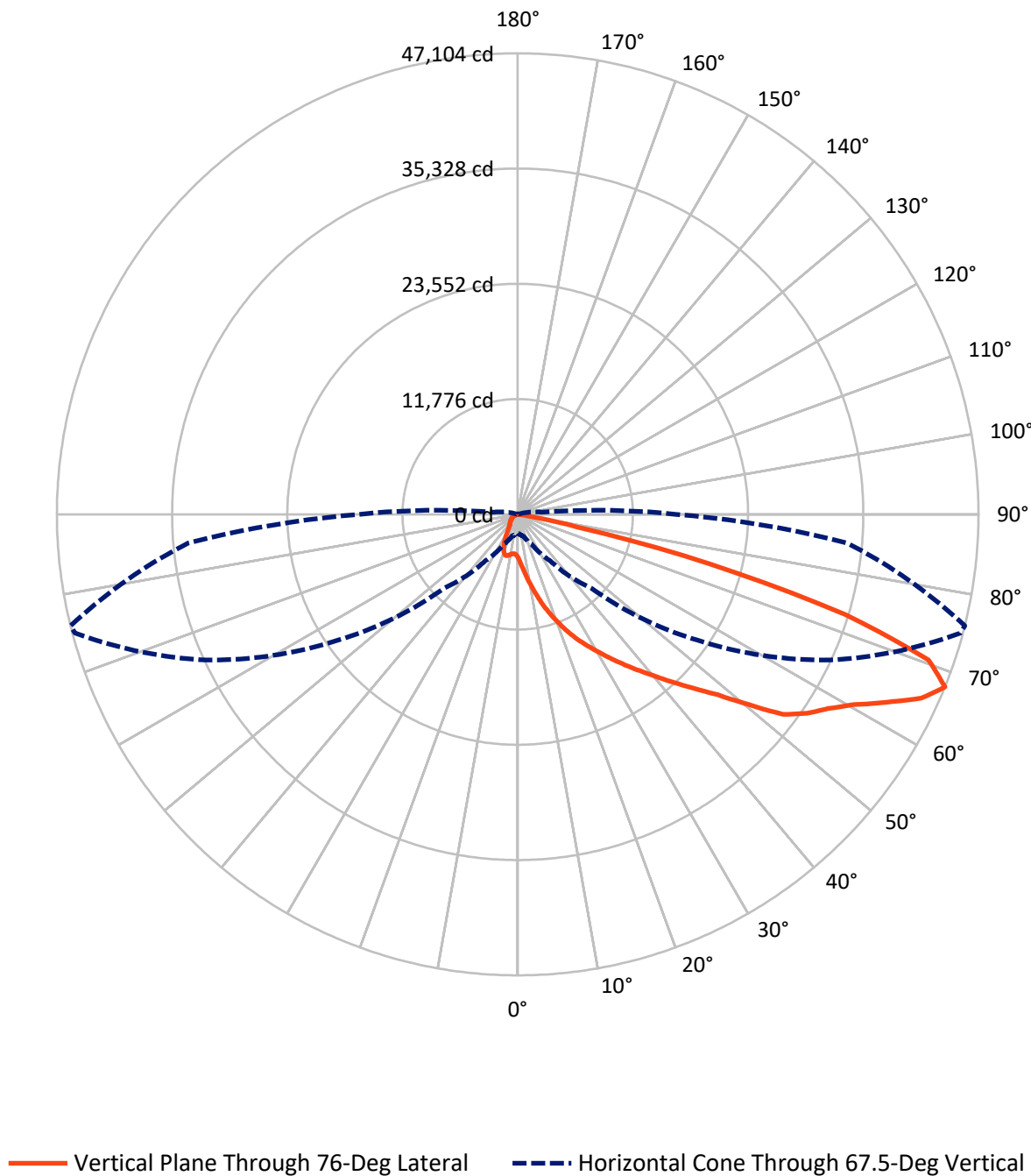
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 24.8 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2574.3	0.0	2574.3
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	49266.7	0.0	49266.7
	% Fixture	95.0	0.0	95.0
Total	Lumens	51841.0	0.0	51841.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	546.8	1.1
10°-20°	2167.7	4.2
20°-30°	4410.6	8.5
30°-40°	7655.4	14.8
40°-50°	10816.2	20.9
50°-60°	12266.0	23.7
60°-70°	10173.5	19.6
70°-80°	3685.1	7.1
80°-90°	119.5	0.2
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°	51841.0	100.0
0°-180°	51841.0	100.0

Coefficient of Utilization



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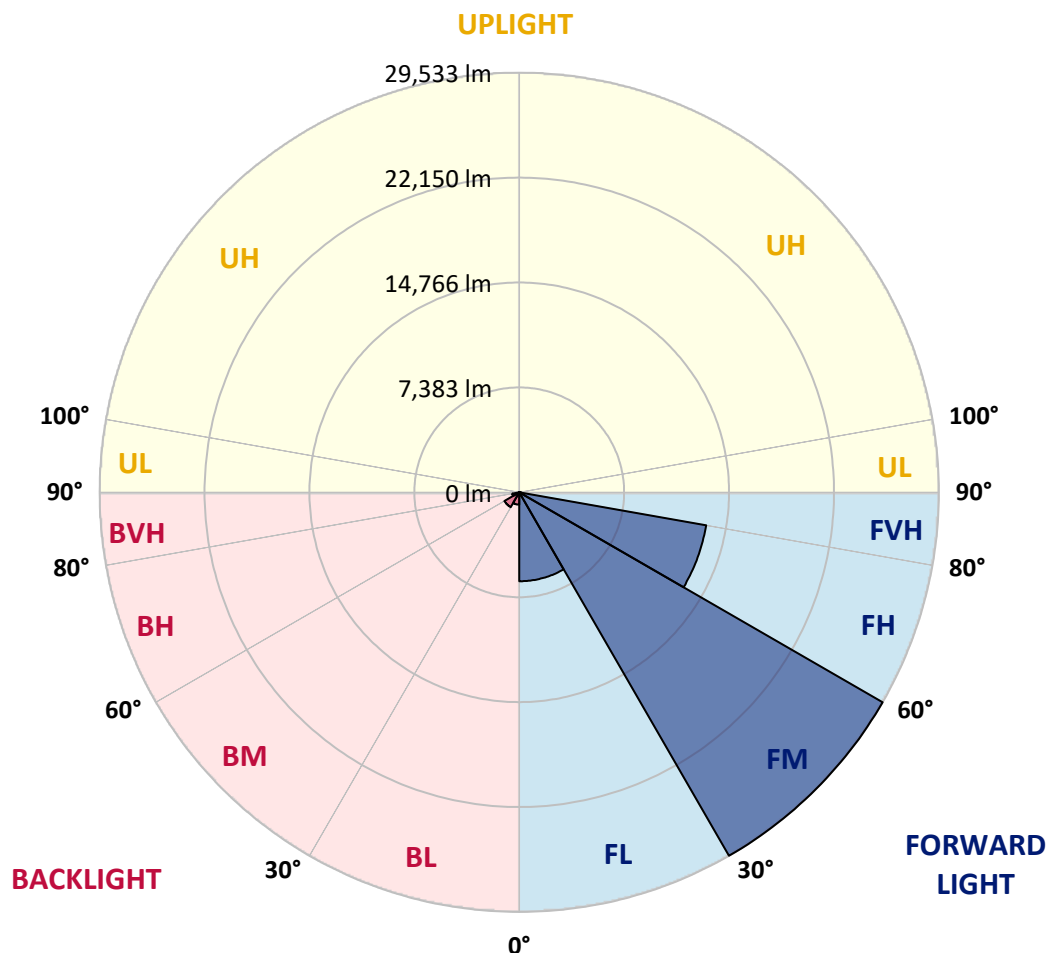
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	6257.0	12.1			
FM	(30°-60°)	29532.8	57.0			
FH	(60°-80°)	13361.2	25.8			G5
FVH	(80°-90°)	115.7	0.2			G2/225
BL	(0°-30°)	868.2	1.7	B2/1000		
BM	(30°-60°)	1204.8	2.3	B2/2500		
BH	(60°-80°)	497.5	1.0	B1/500		G1/500
BVH	(80°-90°)	3.8	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°	75°	76°	85°
0°	4397.6	4397.6	4397.6	4397.6	4397.6	4397.6	4397.6	4397.6	4397.6	4397.6	4397.6
2.5°	6564.6	6417.0	6451.1	6355.6	6183.0	5828.7	5526.6	5240.3	4906.4	4895.1	4620.2
5°	8852.0	8727.1	8711.2	8518.1	8204.6	7602.7	7016.7	6348.8	5603.8	5549.3	4965.5
7.5°	10928.2	10828.2	10791.9	10562.5	9978.7	9392.6	8629.4	7648.1	6482.9	6382.9	5431.1
10°	12522.8	12475.1	12484.1	12320.6	11820.9	11275.7	10274.0	9022.4	7480.0	7325.6	5989.9
12.5°	13731.2	13742.6	13824.3	13724.4	13445.0	13040.7	11970.8	10487.5	8584.0	8372.7	6628.2
15°	14619.4	14676.1	14826.1	14951.0	14930.5	14580.7	13599.5	11975.3	9756.1	9522.1	7339.2
17.5°	15194.0	15257.6	15475.7	15752.8	16007.2	15925.5	15171.3	13410.9	10941.8	10671.5	8100.2
20°	15698.3	15773.3	16007.2	16373.0	16847.7	16949.9	16454.7	14803.3	12125.3	11795.9	8886.1
22.5°	16790.9	16788.6	16931.7	17145.3	17597.3	17860.8	17547.3	16095.8	13295.1	12952.1	9687.9
25°	18767.1	18692.1	18642.2	18474.1	18574.0	18737.6	18562.7	17304.3	14471.7	14124.2	10501.1
27.5°	21115.8	21161.3	20756.9	20304.9	19955.1	19787.0	19500.8	18424.1	15602.9	15221.3	11296.2
30°	23594.0	23607.7	23130.7	22553.7	21783.7	21145.4	20650.2	19494.0	16765.9	16350.2	12068.5
32.5°	25829.2	25740.6	25268.1	24482.2	23510.0	22792.2	21763.2	20688.8	17997.1	17595.0	12927.1
35°	27601.0	27496.5	26921.8	26206.3	25197.7	24475.4	23237.4	21881.3	19291.8	18898.9	13788.0
37.5°	28895.7	28773.1	28182.5	27446.5	26576.5	26156.3	24947.9	23178.4	20704.7	20282.2	14694.3
40°	29345.5	29238.7	28868.5	28330.1	27630.5	27535.1	26762.8	24670.7	22242.5	21792.7	15721.0
42.5°	29077.4	28972.9	28841.2	28659.5	28368.7	28459.6	28475.5	26372.1	23950.7	23507.7	16854.5
45°	28014.4	27921.2	28057.5	28323.3	28684.5	29134.2	30038.3	28200.6	25858.7	25386.3	18165.2
47.5°	26449.3	26381.2	26758.2	27421.5	28477.8	29718.0	31467.0	30122.3	28000.7	27562.3	19800.6
50°	24223.2	24211.9	24966.0	26176.7	27800.9	29999.7	32943.5	32307.5	30976.4	30515.3	22074.4
52.5°	20756.9	20779.7	22262.9	24200.5	26612.9	29808.9	33893.0	35115.1	34438.2	33958.9	24043.8
55°	17456.5	17592.7	18644.4	21438.4	24791.1	29100.1	34220.1	36425.7	36348.5	35894.2	25138.7
57.5°	14224.1	14471.7	15484.8	18094.7	22131.2	27466.9	34040.7	36993.6	37770.5	37422.9	26583.3
60°	10721.5	10835.0	12002.6	14442.2	18717.1	24486.7	32739.1	37302.5	39714.9	39474.1	28679.9
62.5°	6821.3	7105.2	8141.0	10494.3	14573.9	20348.1	30544.8	37298.0	42147.6	42279.4	31385.3
65°	3593.5	3925.1	4474.8	6503.3	10015.0	15725.6	27244.3	36948.2	45132.4	45316.4	33500.0
67.5°	1937.6	2033.0	2323.7	3375.4	5808.2	10653.3	22394.7	35221.8	46861.0	47104.0	33795.3
70°	1417.4	1469.7	1578.7	1867.2	2923.4	6187.6	16341.1	31308.0	44632.6	44541.8	30026.9
72.5°	1088.0	1169.8	1251.6	1367.4	1680.9	3302.8	10174.0	24516.3	35612.5	35012.9	22444.7
75°	858.6	872.3	988.1	1092.6	1260.7	1880.8	4518.0	14278.6	21736.0	20316.3	11639.2
77.5°	686.0	695.1	763.2	854.1	1013.1	1235.7	1399.2	5617.4	6939.4	6192.1	2525.9
80°	406.6	429.3	567.9	658.7	840.5	779.1	511.1	1219.8	1083.5	981.3	424.8
82.5°	227.1	245.3	320.3	520.2	586.0	372.5	254.4	329.4	254.4	247.6	120.4
85°	0.0	11.4	206.7	322.6	238.5	81.8	106.8	109.0	75.0	70.4	47.7
87.5°	0.0	0.0	63.6	61.3	9.1	13.6	25.0	36.3	29.5	29.5	25.0
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°	4397.6	4397.6	4397.6	4397.6	4397.6	4397.6	4397.6	4397.6	4397.6	4397.6	4397.6
2.5°	4483.9	4361.3	4129.6	3902.4	3711.6	3554.9	3414.1	3357.3	3311.8	3305.0	3268.7
5°	4683.8	4436.2	3993.3	3629.9	3386.8	3214.2	3066.5	2975.7	2905.2	2878.0	2853.0
7.5°	4985.9	4611.1	3975.1	3557.2	3266.4	2975.7	2703.1	2407.8	2223.8	2153.4	2112.5
10°	5353.9	4842.8	4043.3	3536.7	3027.9	2414.6	1962.6	1587.8	1435.6	1385.6	1372.0
12.5°	5783.2	5131.3	4161.4	3409.5	2519.1	1715.0	1353.8	1226.6	1192.5	1176.6	1176.6
15°	6276.1	5447.0	4245.4	3041.5	1862.6	1297.0	1172.1	1113.0	1076.7	1056.2	1058.5
17.5°	6780.4	5756.0	4204.5	2507.7	1374.3	1153.9	1060.8	997.2	947.2	926.8	922.2
20°	7289.2	6042.2	3977.4	1867.2	1163.0	1047.2	942.7	872.3	822.3	801.8	797.3
22.5°	7816.2	6285.2	3577.6	1369.7	1044.9	929.0	826.8	756.4	708.7	690.5	681.4
25°	8329.6	6482.9	3018.8	1108.5	933.6	817.7	720.1	654.2	611.0	592.9	590.6
27.5°	8808.9	6607.8	2371.4	979.0	835.9	717.8	629.2	570.1	533.8	520.2	517.9
30°	9240.4	6619.1	1753.6	883.6	749.6	631.5	549.7	497.5	465.7	452.0	447.5
32.5°	9676.6	6523.7	1276.6	797.3	670.1	556.5	477.0	436.1	413.4	402.1	402.1
35°	10087.7	6303.4	994.9	722.3	592.9	483.8	420.2	390.7	377.1	365.7	365.7
37.5°	10489.8	5987.7	845.0	656.5	520.2	422.5	370.3	352.1	340.7	329.4	329.4
40°	10898.6	5590.2	767.8	595.1	461.1	374.8	329.4	313.5	302.1	293.0	290.8
42.5°	11400.6	5131.3	717.8	538.3	408.9	331.6	290.8	272.6	263.5	254.4	249.9
45°	11982.1	4736.1	676.9	481.6	365.7	295.3	252.1	234.0	220.3	209.0	206.7
47.5°	12820.3	4449.9	622.4	420.2	324.8	256.7	218.1	197.6	177.2	165.8	163.5
50°	13890.2	4213.6	552.0	365.7	283.9	218.1	181.7	156.7	138.6	127.2	127.2
52.5°	14421.7	3904.7	488.4	318.0	238.5	184.0	147.6	118.1	109.0	97.7	97.7
55°	14635.3	3668.5	424.8	270.3	197.6	152.2	115.8	90.9	84.0	77.2	75.0
57.5°	15234.9	3600.3	370.3	229.4	163.5	120.4	88.6	68.1	63.6	54.5	54.5
60°	16200.3	3634.4	320.3	195.3	131.7	93.1	65.9	52.2	47.7	38.6	38.6
62.5°	17242.9	3591.2	270.3	168.1	102.2	68.1	45.4	38.6	38.6	22.7	20.4
65°	17442.8	3198.3	231.7	138.6	79.5	50.0	29.5	25.0	34.1	4.5	0.0
67.5°	16189.0	2480.5	199.9	106.8	59.1	38.6	22.7	11.4	29.5	0.0	0.0
70°	12945.3	1576.4	161.3	77.2	45.4	31.8	18.2	4.5	22.7	0.0	0.0
72.5°	9154.1	915.4	127.2	54.5	38.6	25.0	13.6	0.0	13.6	0.0	0.0
75°	4629.3	488.4	79.5	40.9	29.5	18.2	9.1	0.0	2.3	0.0	0.0
77.5°	1001.7	227.1	50.0	29.5	20.4	11.4	4.5	0.0	0.0	0.0	0.0
80°	218.1	99.9	31.8	18.2	11.4	6.8	0.0	0.0	0.0	0.0	0.0
82.5°	79.5	52.2	15.9	9.1	4.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	43.2	27.3	9.1	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	22.7	9.1	2.3	2.3	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)