

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: P321853

Luminaire Tested: **GAN-SA9C-727-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321853
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-SA9C-727-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 1050mA 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: 37619 lumens
Efficiency: N/A
Efficacy: 75.1 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): 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

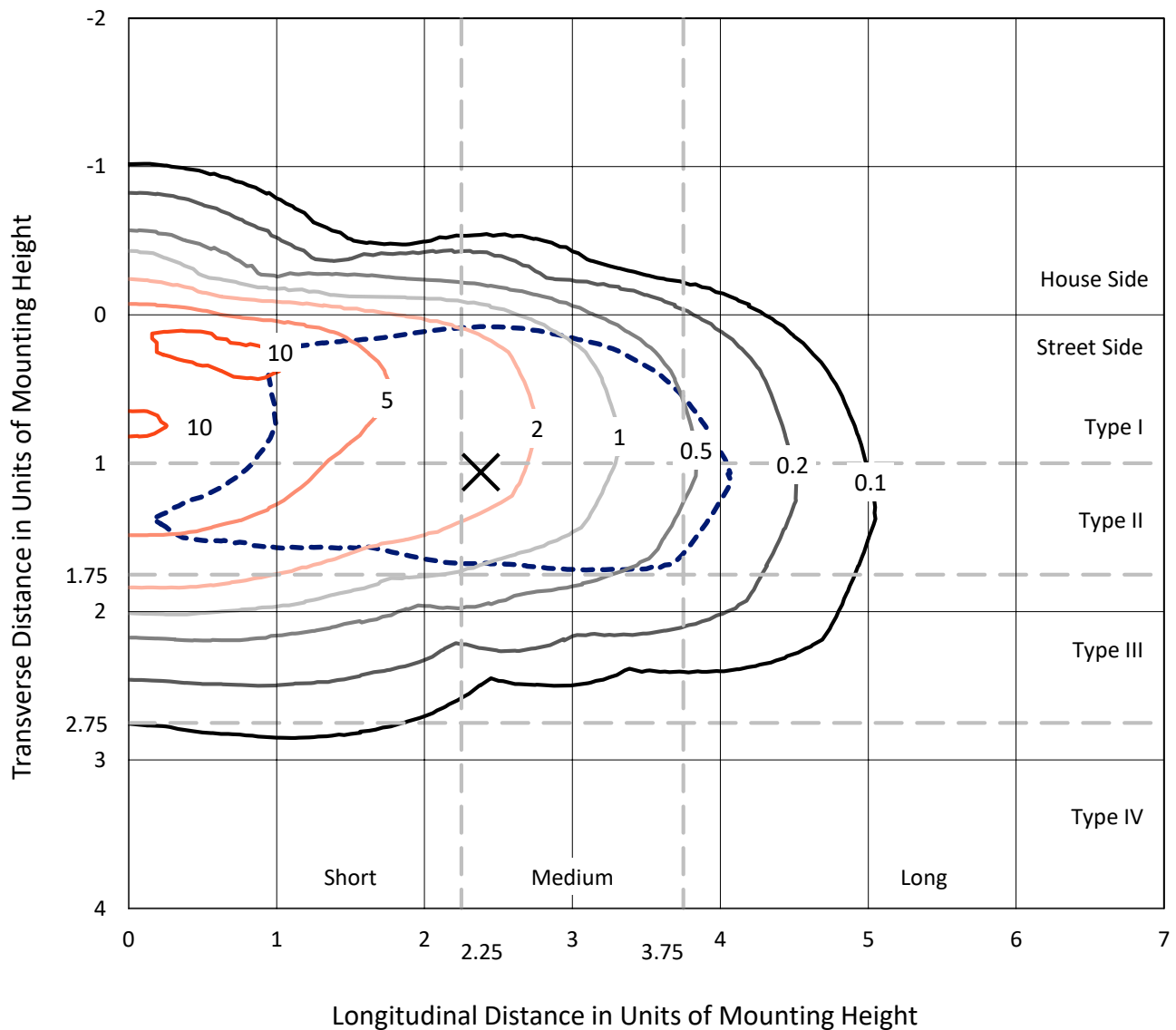


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Iso-Footcandle Lines of Horizontal Illumination

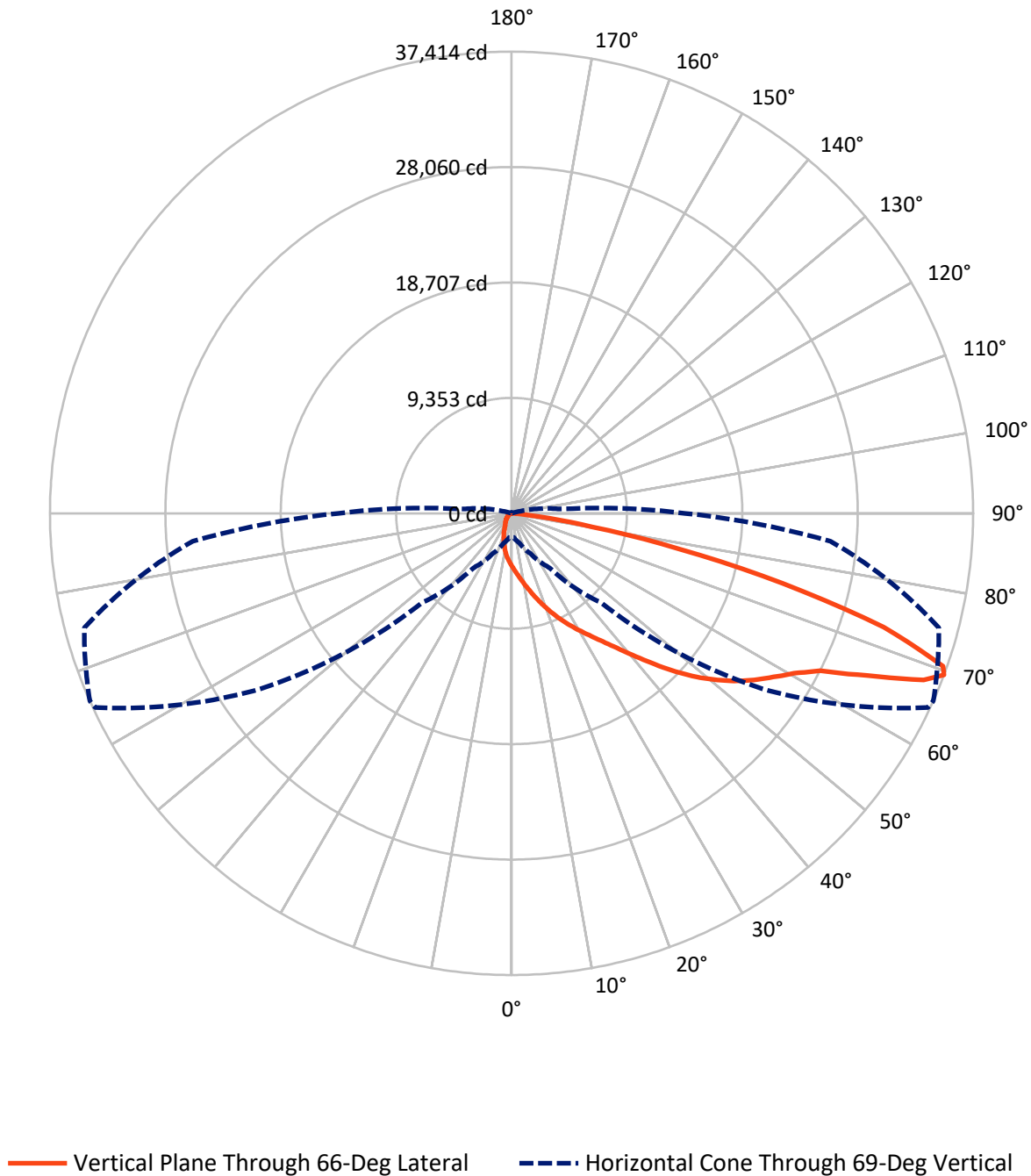
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.3 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	2256.6	0.0	2256.6
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	35362.4	0.0	35362.4
	% Fixture	94.0	0.0	94.0
Total	Lumens	37619.0	0.0	37619.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	413.8	1.1
10°-20°	1231.6	3.3
20°-30°	2144.7	5.7
30°-40°	3762.9	10.0
40°-50°	6298.6	16.7
50°-60°	9258.3	24.6
60°-70°	9505.9	25.3
70°-80°	4692.8	12.5
80°-90°	310.3	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°	37619.0	100.0
0°-180°	37619.0	100.0

Coefficient of Utilization



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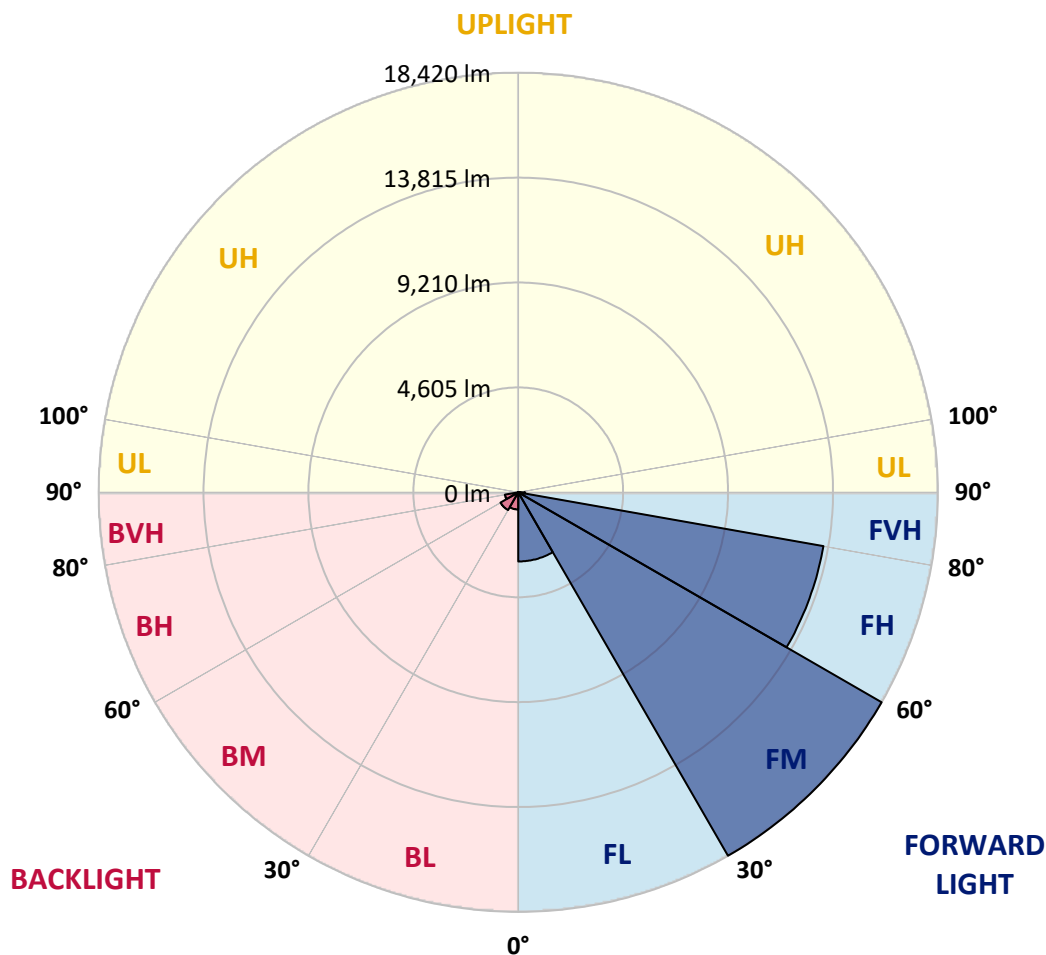
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3035.5	8.1			
FM	(30°-60°)	18420.1	49.0			
FH	(60°-80°)	13604.0	36.2			G5
FVH	(80°-90°)	302.8	0.8			G3/500
BL	(0°-30°)	754.7	2.0	B2/1000		
BM	(30°-60°)	899.7	2.4	B1/1000		
BH	(60°-80°)	594.7	1.6	B2/1000		G2/1000
BVH	(80°-90°)	7.5	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°	4281.2	4281.2	4281.2	4281.2	4281.2	4281.2	4281.2	4281.2	4281.2	4281.2	4281.2
2.5°	5038.8	5017.3	5008.4	4969.1	4901.2	4849.4	4749.3	4633.2	4611.7	4499.2	4361.6
5°	5692.7	5674.9	5662.4	5607.0	5537.3	5406.8	5224.6	5008.4	4967.3	4752.9	4477.7
7.5°	6148.4	6180.5	6180.5	6144.8	6057.2	5959.0	5735.6	5440.8	5389.0	5060.2	4633.2
10°	6414.6	6453.9	6484.3	6514.7	6502.2	6462.8	6252.0	5919.7	5857.1	5421.1	4813.6
12.5°	6439.6	6478.9	6564.7	6691.6	6814.8	6904.2	6772.0	6450.3	6378.9	5839.2	5028.0
15°	6300.2	6341.3	6473.6	6720.1	7018.5	7279.4	7322.3	7038.2	6964.9	6337.8	5296.1
17.5°	6057.2	6084.0	6273.4	6614.7	7082.9	7561.7	7820.8	7668.9	7601.0	6907.8	5594.5
20°	5876.8	5896.4	6062.6	6428.9	7043.5	7738.6	8292.5	8339.0	8267.5	7518.8	5917.9
22.5°	6185.9	6221.6	6227.0	6400.3	6936.3	7826.2	8707.1	8998.3	8944.7	8167.4	6235.9
25°	7031.0	7072.1	6936.3	6829.1	7027.5	7865.5	9062.6	9673.7	9630.8	8866.1	6555.8
27.5°	8147.8	8190.7	8015.6	7695.7	7504.5	8013.8	9378.9	10359.8	10358.1	9605.8	6900.6
30°	9244.9	9287.8	9109.1	8789.2	8349.7	8433.7	9652.3	11078.1	11088.9	10368.8	7266.9
32.5°	10395.6	10449.2	10265.1	9854.2	9395.0	9159.1	10036.4	11800.0	11860.8	11253.2	7679.6
35°	11703.5	11710.7	11451.6	11021.0	10492.1	10129.3	10652.9	12609.4	12754.1	12348.5	8203.2
37.5°	12986.4	13038.2	12825.6	12146.6	11660.6	11249.7	11569.5	13620.7	13826.2	13686.9	8887.5
40°	13937.0	14046.0	14015.6	13283.0	12822.0	12529.0	12707.7	14823.3	15084.1	15244.9	9750.5
42.5°	14533.8	14616.0	14755.4	14314.0	13895.9	13944.2	14051.4	16224.1	16545.7	17021.0	10742.2
45°	15218.1	15257.5	15373.6	15178.8	14896.5	15382.5	15477.2	17801.8	18139.6	18931.1	11842.9
47.5°	16054.4	16147.3	16179.4	16000.8	15872.1	16654.7	16851.3	19236.6	19710.1	20977.0	13007.9
50°	17119.3	17144.3	17199.7	17083.6	16954.9	17748.2	18084.2	20742.9	21173.5	23030.0	14156.8
52.5°	18161.0	18250.3	18443.3	18370.0	18318.2	18679.2	19183.0	22100.9	22581.5	24741.8	15303.9
55°	18461.2	18538.0	19204.5	19660.1	20081.8	19826.3	20233.7	23317.7	23837.6	26271.3	16408.1
57.5°	17262.2	17417.7	18572.0	19758.4	21507.7	21609.5	21677.4	24566.7	25033.0	27443.4	17557.1
60°	14231.8	14262.2	16156.2	18191.4	21271.8	23165.8	23785.8	25908.5	26299.8	28535.1	18932.9
62.5°	9051.9	9361.0	11439.1	14312.2	18777.4	22940.7	26335.6	27938.3	28081.3	29844.9	20905.5
65°	4311.5	4511.7	6009.0	8842.9	13601.1	20058.6	28095.6	31610.2	31674.5	32441.1	23541.0
67.5°	2387.2	2483.6	3196.6	4760.0	7951.2	14185.4	27384.4	35959.3	36020.0	35092.7	25853.1
69°	1867.2	1949.4	2510.4	3587.9	5390.8	10195.5	24781.1	37233.3	37413.7	35852.1	25935.3
70°	1584.9	1665.3	2162.0	3030.4	4334.8	7878.0	22058.0	36917.0	37108.2	35780.6	25322.5
72.5°	970.2	1016.7	1440.2	2133.4	2905.3	3963.1	13602.9	31220.7	31544.1	32821.7	21763.2
75°	654.0	679.0	900.5	1472.3	2078.0	2040.5	7066.8	22006.2	22706.6	25531.5	16074.0
77.5°	468.1	491.4	603.9	952.4	1456.2	1347.2	3200.2	13676.1	13826.2	15312.8	8766.0
80°	266.2	287.7	427.0	566.4	988.1	898.8	1272.2	6532.5	6607.6	6566.5	2926.8
82.5°	139.4	157.2	234.1	373.4	634.3	587.9	528.9	2187.0	2197.8	1827.9	641.5
85°	26.8	32.2	116.1	255.5	327.0	255.5	216.2	512.8	523.5	462.8	159.0
87.5°	0.0	1.8	46.5	57.2	64.3	66.1	69.7	100.1	107.2	144.7	42.9
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°	4281.2	4281.2	4281.2	4281.2	4281.2	4281.2	4281.2	4281.2	4281.2	4281.2	4281.2
2.5°	4300.8	4236.5	4113.2	3970.3	3859.5	3750.5	3664.7	3575.4	3543.2	3527.1	3525.3
5°	4343.7	4207.9	3947.0	3679.0	3459.2	3252.0	3103.7	2962.5	2896.4	2866.0	2853.5
7.5°	4415.2	4197.2	3777.3	3368.1	3051.8	2792.8	2587.3	2433.6	2356.8	2324.6	2312.1
10°	4499.2	4182.9	3579.0	3039.3	2635.5	2367.5	2163.8	2011.9	1928.0	1892.2	1874.3
12.5°	4597.4	4157.9	3350.2	2707.0	2280.0	2011.9	1765.4	1577.7	1481.3	1440.2	1420.5
15°	4718.9	4132.9	3110.8	2394.3	1967.3	1640.3	1370.5	1243.6	1224.0	1216.8	1218.6
17.5°	4838.6	4093.5	2849.9	2085.2	1638.5	1281.1	1143.5	1136.4	1140.0	1140.0	1140.0
20°	4945.9	4004.2	2565.8	1820.7	1325.8	1081.0	1052.4	1039.9	1031.0	1023.8	1014.9
22.5°	5029.8	3884.5	2292.5	1558.1	1082.8	989.9	945.2	905.9	873.7	852.3	841.6
25°	5087.0	3725.5	2042.3	1306.1	973.8	900.5	820.1	754.0	704.0	673.6	661.1
27.5°	5129.9	3553.9	1819.0	1093.5	898.8	796.9	691.5	612.9	561.1	534.3	523.5
30°	5160.3	3359.2	1622.4	961.3	814.8	687.9	575.3	498.5	461.0	446.7	439.6
32.5°	5188.9	3143.0	1436.6	898.8	736.2	587.9	482.4	423.5	400.2	382.4	377.0
35°	5260.3	2942.9	1259.7	832.6	655.8	502.1	414.5	371.7	348.4	337.7	334.1
37.5°	5430.1	2794.5	1089.9	764.7	575.3	434.2	362.7	332.3	310.9	300.2	296.6
40°	5703.5	2719.5	947.0	691.5	496.7	382.4	328.8	300.2	277.0	260.9	257.3
42.5°	6105.5	2730.2	846.9	618.2	434.2	341.3	296.6	262.7	237.6	223.3	219.8
45°	6593.3	2808.8	777.3	546.8	382.4	309.1	260.9	225.1	201.9	189.4	185.8
47.5°	7122.2	2935.7	720.1	482.4	341.3	278.7	225.1	187.6	168.0	157.2	155.5
50°	7679.6	3059.0	661.1	419.9	305.5	248.4	189.4	155.5	139.4	130.4	126.9
52.5°	8244.3	3201.9	607.5	362.7	275.2	212.6	157.2	126.9	114.4	107.2	103.6
55°	8851.8	3309.1	555.7	318.0	244.8	180.5	130.4	105.4	94.7	85.8	84.0
57.5°	9566.5	3475.3	502.1	275.2	209.1	150.1	107.2	84.0	75.0	66.1	64.3
60°	10531.4	3670.1	444.9	243.0	171.5	123.3	87.6	67.9	57.2	50.0	48.2
62.5°	11803.6	3886.3	373.4	212.6	139.4	100.1	69.7	53.6	41.1	32.2	32.2
65°	13417.1	4238.3	305.5	178.7	114.4	82.2	53.6	39.3	23.2	14.3	14.3
67.5°	14358.7	4299.0	246.6	146.5	92.9	69.7	44.7	26.8	7.1	1.8	0.0
69°	14056.7	3947.0	209.1	125.1	80.4	66.1	41.1	19.7	3.6	0.0	0.0
70°	13488.5	3609.3	184.0	110.8	73.3	62.5	39.3	14.3	3.6	0.0	0.0
72.5°	11146.0	2569.4	139.4	82.2	53.6	55.4	35.7	8.9	3.6	0.0	0.0
75°	8119.2	1561.7	100.1	57.2	33.9	41.1	25.0	3.6	1.8	0.0	0.0
77.5°	4517.0	736.2	62.5	32.2	21.4	25.0	12.5	0.0	0.0	0.0	0.0
80°	1467.0	200.1	28.6	17.9	12.5	14.3	5.4	0.0	0.0	0.0	0.0
82.5°	271.6	57.2	16.1	8.9	3.6	3.6	0.0	0.0	0.0	0.0	0.0
85°	59.0	23.2	8.9	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	19.7	7.1	1.8	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)