

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: P321863

Luminaire Tested: **GAN-SA9D-727-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321863
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-SA9D-727-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 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: 41268 lumens
Efficiency: N/A
Efficacy: 71.8 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): 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

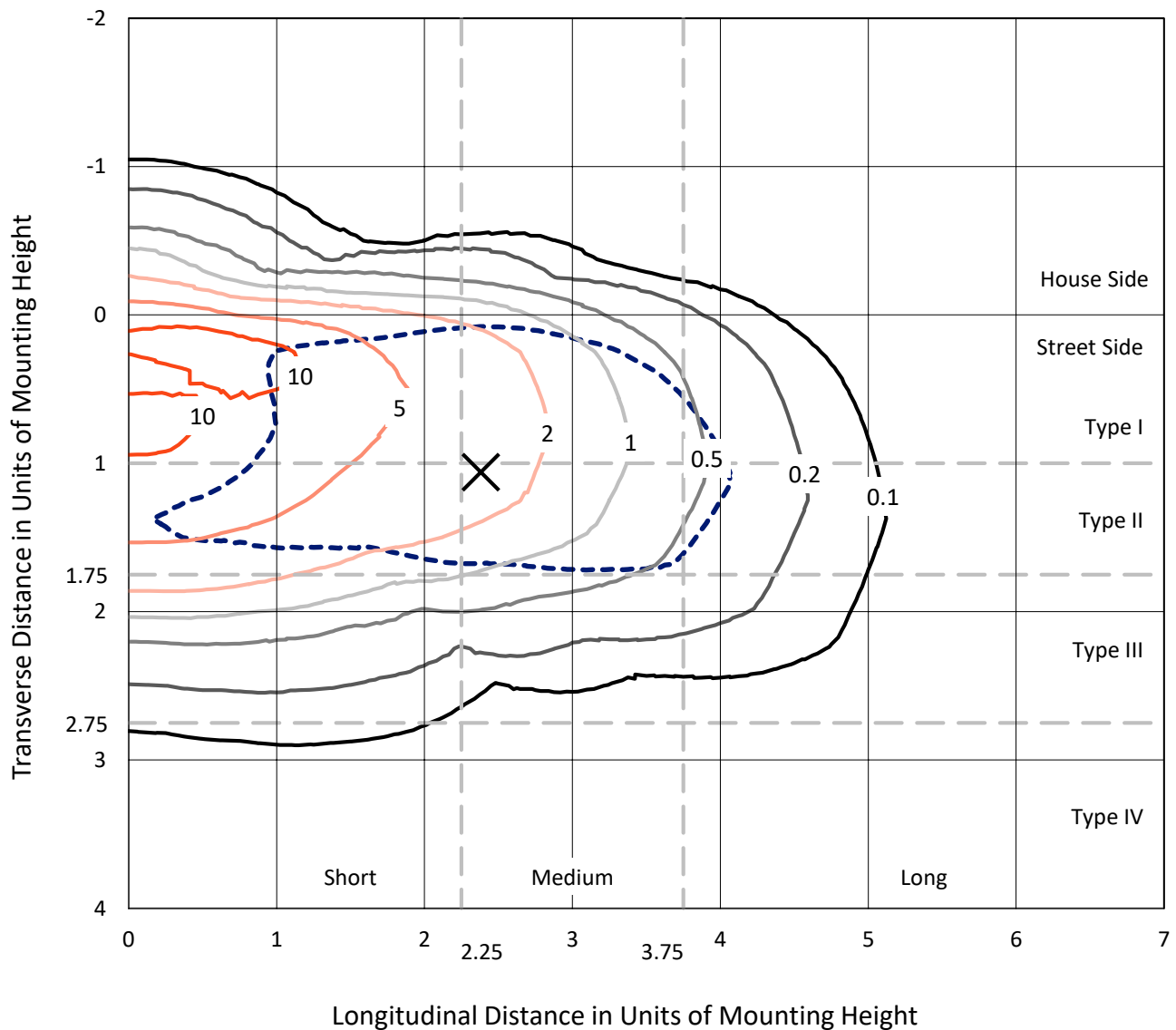


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Iso-Footcandle Lines of Horizontal Illumination

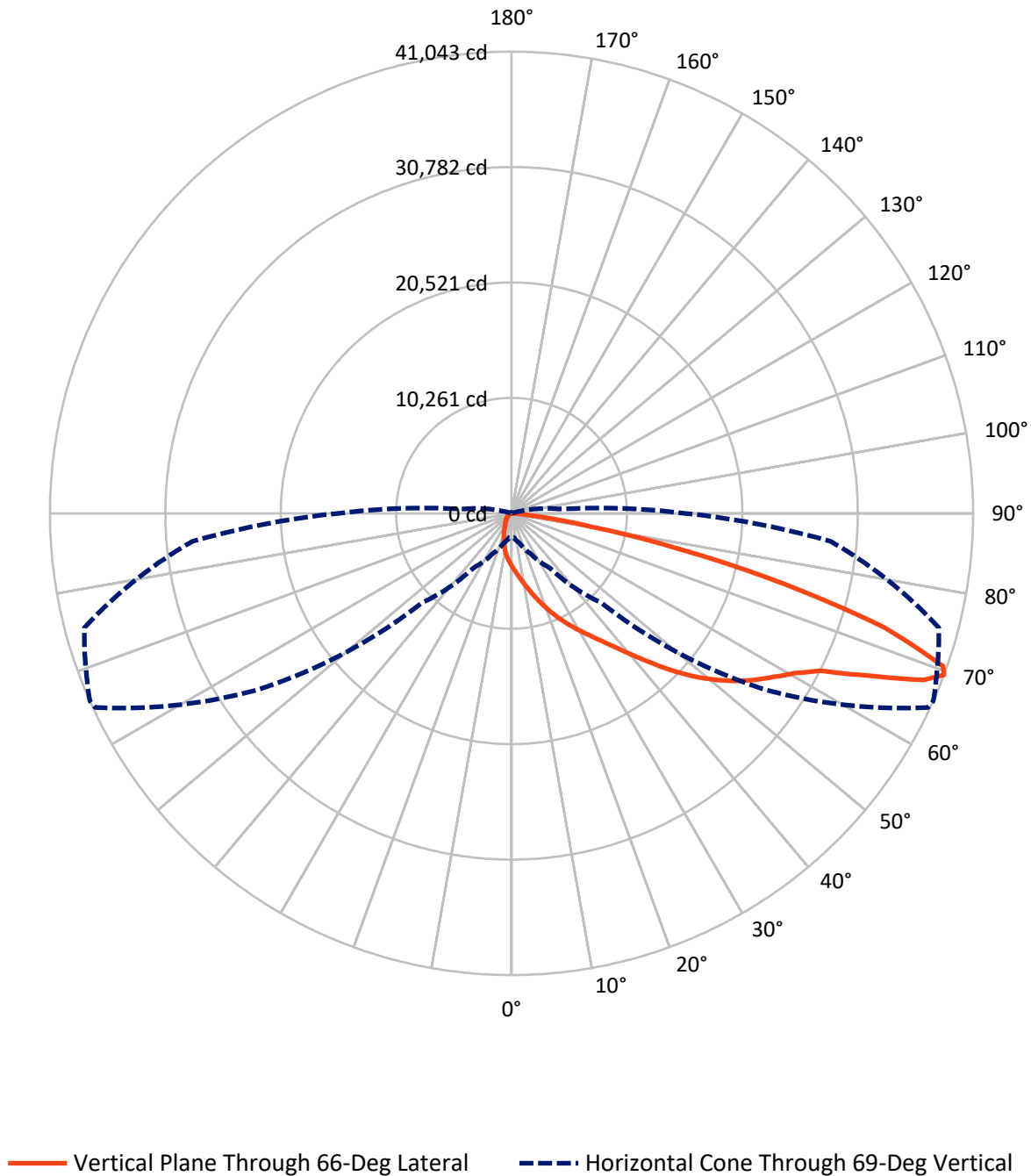
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.4 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	2475.5	0.0	2475.5
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	38792.5	0.0	38792.5
	% Fixture	94.0	0.0	94.0
Total	Lumens	41268.0	0.0	41268.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	454.0	1.1
10°-20°	1351.1	3.3
20°-30°	2352.8	5.7
30°-40°	4127.9	10.0
40°-50°	6909.5	16.7
50°-60°	10156.3	24.6
60°-70°	10428.0	25.3
70°-80°	5148.0	12.5
80°-90°	340.4	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°	41268.0	100.0
0°-180°	41268.0	100.0

Coefficient of Utilization



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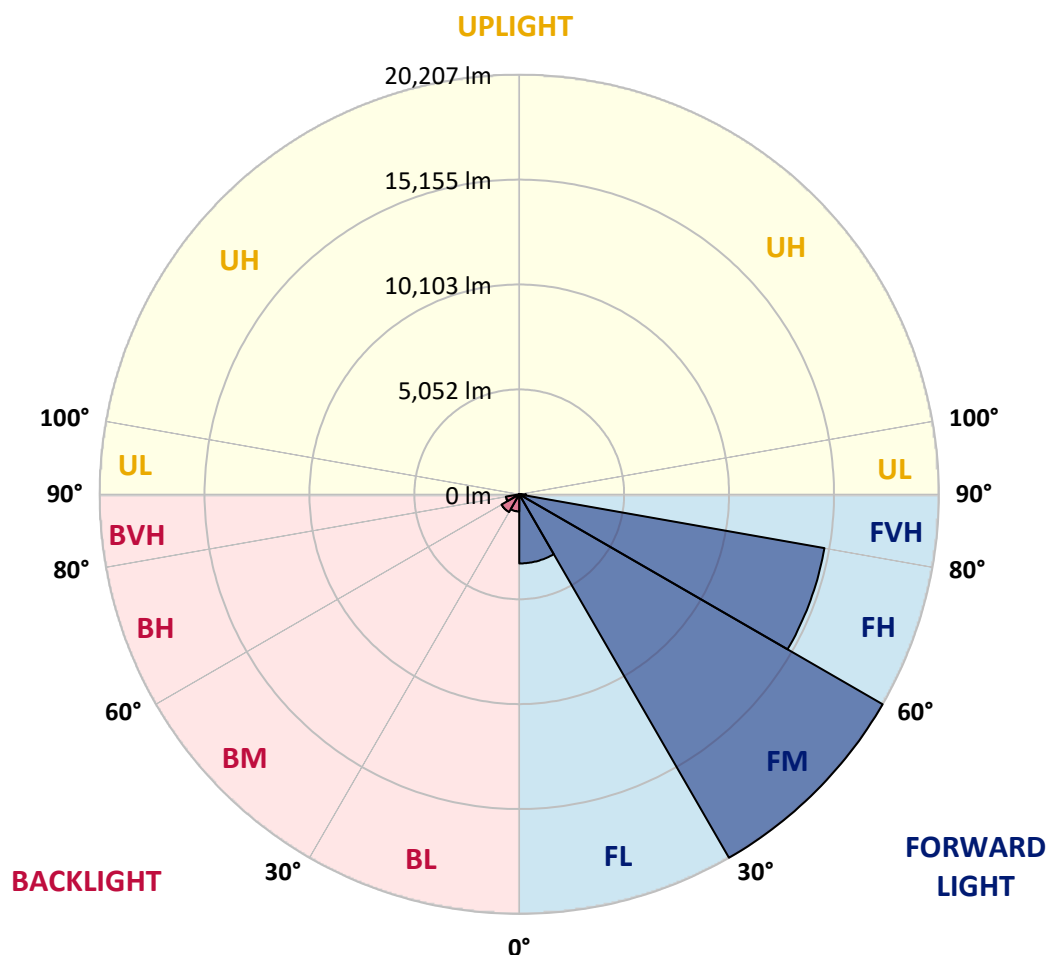
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3329.9	8.1			
FM	(30°-60°)	20206.8	49.0			
FH	(60°-80°)	14923.6	36.2			G5
FVH	(80°-90°)	332.2	0.8			G3/500
BL	(0°-30°)	827.9	2.0	B2/1000		
BM	(30°-60°)	987.0	2.4	B1/1000		
BH	(60°-80°)	652.4	1.6	B2/1000		G2/1000
BVH	(80°-90°)	8.2	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°	4696.4	4696.4	4696.4	4696.4	4696.4	4696.4	4696.4	4696.4	4696.4	4696.4	4696.4
2.5°	5527.5	5504.0	5494.2	5451.1	5376.6	5319.7	5210.0	5082.6	5059.1	4935.6	4784.6
5°	6244.9	6225.3	6211.6	6150.8	6074.4	5931.3	5731.4	5494.2	5449.1	5213.9	4912.0
7.5°	6744.7	6780.0	6780.0	6740.8	6644.8	6537.0	6292.0	5968.5	5911.7	5551.0	5082.6
10°	7036.8	7079.9	7113.3	7146.6	7132.9	7089.7	6858.4	6493.9	6425.3	5947.0	5280.5
12.5°	7064.2	7107.4	7201.5	7340.6	7475.9	7573.9	7428.8	7076.0	6997.6	6405.6	5515.8
15°	6911.4	6956.4	7101.5	7372.0	7699.3	7985.5	8032.5	7720.9	7640.5	6952.5	5809.8
17.5°	6644.8	6674.2	6882.0	7256.3	7769.9	8295.2	8579.4	8412.8	8338.3	7577.8	6137.1
20°	6446.8	6468.4	6650.7	7052.5	7726.8	8489.2	9096.9	9147.8	9069.4	8248.2	6491.9
22.5°	6785.9	6825.1	6831.0	7021.1	7609.2	8585.3	9551.6	9871.1	9812.3	8959.7	6840.8
25°	7713.0	7758.1	7609.2	7491.6	7709.1	8628.4	9941.7	10612.1	10565.0	9726.1	7191.7
27.5°	8938.1	8985.2	8793.1	8442.2	8232.5	8791.1	10288.6	11364.7	11362.8	10537.6	7570.0
30°	10141.6	10188.7	9992.7	9641.8	9159.6	9251.7	10588.5	12152.7	12164.5	11374.5	7971.8
32.5°	11403.9	11462.7	11260.8	10810.0	10306.3	10047.5	11010.0	12944.6	13011.2	12344.8	8424.6
35°	12838.7	12846.6	12562.4	12090.0	11509.8	11111.9	11686.2	13832.5	13991.3	13546.3	8998.9
37.5°	14246.1	14302.9	14069.7	13324.8	12791.7	12340.9	12691.7	14941.9	15167.4	15014.5	9749.6
40°	15288.9	15408.4	15375.1	14571.5	14065.8	13744.3	13940.3	16261.1	16547.3	16723.7	10696.3
42.5°	15943.6	16033.7	16186.6	15702.5	15243.8	15296.7	15414.3	17797.8	18150.6	18672.0	11784.2
45°	16694.3	16737.4	16864.8	16651.2	16341.5	16874.6	16978.5	19528.6	19899.1	20767.4	12991.6
47.5°	17611.6	17713.5	17748.8	17552.8	17411.7	18270.2	18485.8	21102.6	21622.0	23011.7	14269.6
50°	18779.8	18807.3	18868.0	18740.6	18599.5	19469.8	19838.3	22755.0	23227.3	25263.9	15530.0
52.5°	19922.6	20020.6	20232.3	20151.9	20095.1	20491.0	21043.8	24244.6	24771.9	27141.7	16788.4
55°	20251.9	20336.2	21067.3	21567.1	22029.7	21749.4	22196.3	25579.5	26149.9	28819.5	17999.7
57.5°	18936.7	19107.2	20373.4	21674.9	23593.9	23705.6	23780.1	26949.6	27461.2	30105.4	19260.1
60°	15612.3	15645.6	17723.3	19955.9	23335.1	25412.9	26093.0	28421.6	28850.9	31303.0	20769.4
62.5°	9929.9	10269.0	12548.6	15700.5	20598.8	25165.9	28890.1	30648.3	30805.1	32739.8	22933.3
65°	4729.8	4949.3	6591.9	9700.6	14920.4	22004.2	30820.8	34676.4	34746.9	35587.8	25824.5
67.5°	2618.7	2724.6	3506.6	5221.7	8722.5	15561.3	30040.7	39447.3	39513.9	38496.6	28360.9
69°	2048.3	2138.5	2754.0	3935.9	5913.7	11184.4	27184.8	40844.8	41042.8	39329.7	28451.0
70°	1738.6	1826.8	2371.7	3324.4	4755.2	8642.1	24197.6	40497.9	40707.6	39251.3	27778.7
72.5°	1064.3	1115.3	1579.9	2340.4	3187.1	4347.5	14922.3	34249.1	34603.8	36005.3	23874.2
75°	717.4	744.8	987.9	1615.1	2279.6	2238.4	7752.2	24140.8	24909.1	28008.1	17633.2
77.5°	513.5	539.0	662.5	1044.7	1597.5	1477.9	3510.6	15002.7	15167.4	16798.2	9616.3
80°	292.1	315.6	468.5	621.4	1083.9	985.9	1395.6	7166.2	7248.5	7203.4	3210.7
82.5°	152.9	172.5	256.8	409.7	695.8	644.9	580.2	2399.2	2410.9	2005.2	703.7
85°	29.4	35.3	127.4	280.3	358.7	280.3	237.2	562.6	574.3	507.7	174.5
87.5°	0.0	2.0	51.0	62.7	70.6	72.5	76.4	109.8	117.6	158.8	47.0
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°	4696.4	4696.4	4696.4	4696.4	4696.4	4696.4	4696.4	4696.4	4696.4	4696.4	4696.4
2.5°	4718.0	4647.4	4512.2	4355.4	4233.8	4114.3	4020.2	3922.2	3886.9	3869.3	3867.3
5°	4765.0	4616.1	4329.9	4035.9	3794.8	3567.4	3404.7	3249.9	3177.3	3144.0	3130.3
7.5°	4843.4	4604.3	4143.7	3694.8	3347.9	3063.7	2838.2	2669.7	2585.4	2550.1	2536.4
10°	4935.6	4588.6	3926.1	3334.2	2891.2	2597.1	2373.7	2207.1	2115.0	2075.8	2056.2
12.5°	5043.4	4561.2	3675.2	2969.6	2501.1	2207.1	1936.6	1730.8	1624.9	1579.9	1558.3
15°	5176.7	4533.7	3412.6	2626.6	2158.1	1799.4	1503.4	1364.2	1342.7	1334.8	1336.8
17.5°	5308.0	4490.6	3126.4	2287.5	1797.4	1405.4	1254.5	1246.6	1250.6	1250.6	1250.6
20°	5425.6	4392.6	2814.7	1997.4	1454.4	1185.9	1154.5	1140.8	1131.0	1123.1	1113.3
22.5°	5517.7	4261.3	2514.8	1709.2	1187.8	1085.9	1036.9	993.8	958.5	935.0	923.2
25°	5580.4	4086.8	2240.4	1432.8	1068.3	987.9	899.7	827.2	772.3	739.0	725.2
27.5°	5627.5	3898.7	1995.4	1199.6	985.9	874.2	758.6	672.3	615.5	586.1	574.3
30°	5660.8	3685.0	1779.8	1054.5	893.8	754.6	631.2	546.9	505.7	490.0	482.2
32.5°	5692.2	3447.8	1575.9	985.9	807.6	644.9	529.2	464.5	439.1	419.5	413.6
35°	5770.6	3228.3	1381.9	913.4	719.4	550.8	454.7	407.7	382.2	370.5	366.5
37.5°	5956.8	3065.6	1195.7	838.9	631.2	476.3	397.9	364.6	341.1	329.3	325.4
40°	6256.7	2983.3	1038.9	758.6	544.9	419.5	360.7	329.3	303.8	286.2	282.3
42.5°	6697.7	2995.1	929.1	678.2	476.3	374.4	325.4	288.1	260.7	245.0	241.1
45°	7232.8	3081.3	852.6	599.8	419.5	339.1	286.2	247.0	221.5	207.8	203.9
47.5°	7813.0	3220.5	789.9	529.2	374.4	305.8	247.0	205.8	184.3	172.5	170.5
50°	8424.6	3355.7	725.2	460.6	335.2	272.5	207.8	170.5	152.9	143.1	139.2
52.5°	9044.0	3512.5	666.4	397.9	301.9	233.3	172.5	139.2	125.4	117.6	113.7
55°	9710.4	3630.1	609.6	348.9	268.5	198.0	143.1	115.6	103.9	94.1	92.1
57.5°	10494.4	3812.4	550.8	301.9	229.3	164.6	117.6	92.1	82.3	72.5	70.6
60°	11552.9	4026.1	488.1	266.6	188.2	135.2	96.0	74.5	62.7	54.9	52.9
62.5°	12948.5	4263.2	409.7	233.3	152.9	109.8	76.4	58.8	45.1	35.3	35.3
65°	14718.5	4649.4	335.2	196.0	125.4	90.2	58.8	43.1	25.5	15.7	15.7
67.5°	15751.5	4716.0	270.5	160.7	101.9	76.4	49.0	29.4	7.8	2.0	0.0
69°	15420.2	4329.9	229.3	137.2	88.2	72.5	45.1	21.6	3.9	0.0	0.0
70°	14796.9	3959.4	201.9	121.5	80.4	68.6	43.1	15.7	3.9	0.0	0.0
72.5°	12227.2	2818.6	152.9	90.2	58.8	60.8	39.2	9.8	3.9	0.0	0.0
75°	8906.8	1713.1	109.8	62.7	37.2	45.1	27.4	3.9	2.0	0.0	0.0
77.5°	4955.2	807.6	68.6	35.3	23.5	27.4	13.7	0.0	0.0	0.0	0.0
80°	1609.3	219.5	31.4	19.6	13.7	15.7	5.9	0.0	0.0	0.0	0.0
82.5°	297.9	62.7	17.6	9.8	3.9	3.9	0.0	0.0	0.0	0.0	0.0
85°	64.7	25.5	9.8	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	21.6	7.8	2.0	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)