

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: P299835

Luminaire Tested: **GAA-AF-04-LED-U-SL3-8030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P299835  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24288)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAA-AF-04-LED-U-SL3-8030  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 3000K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND Type V  
Square Medium OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

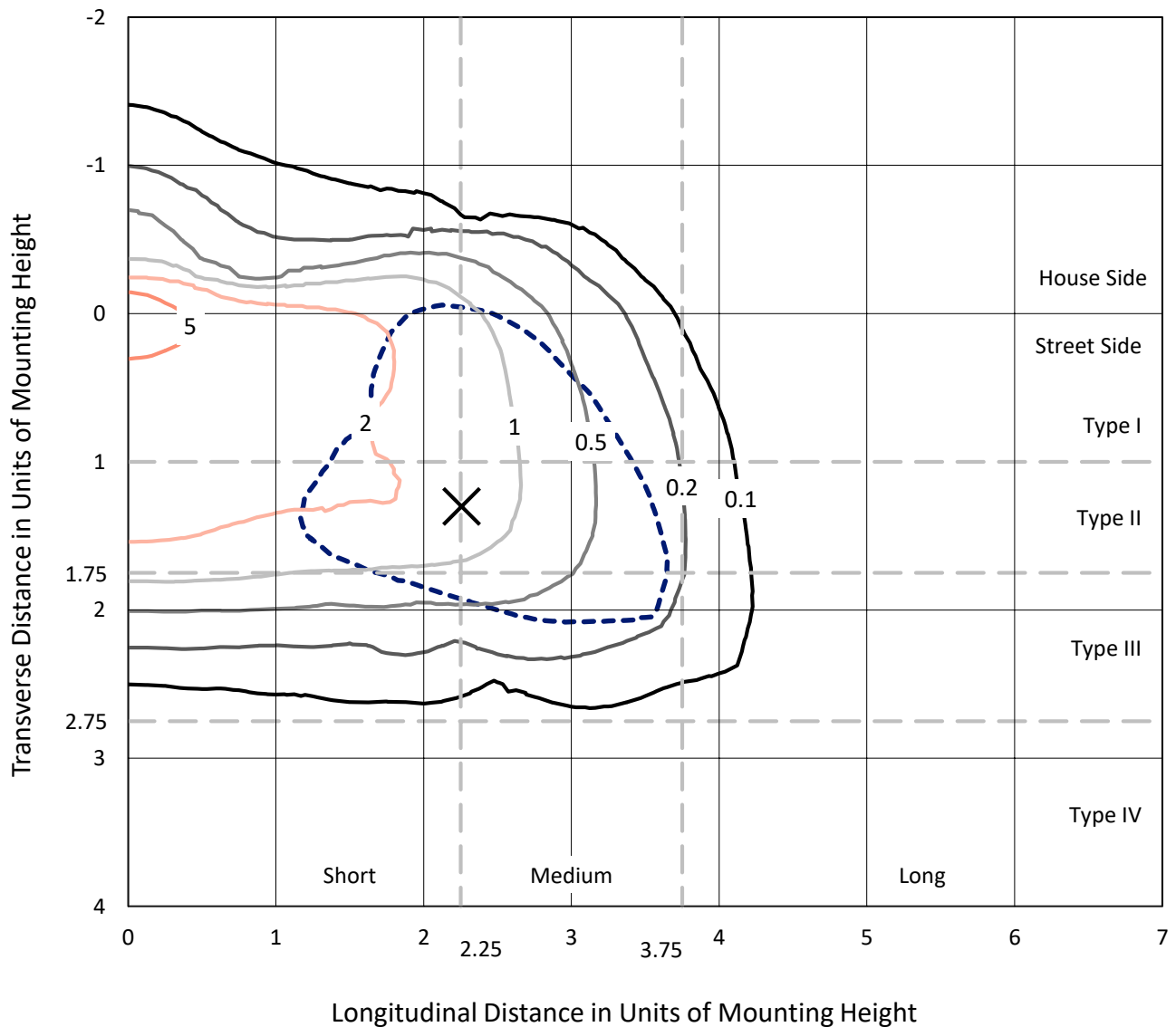
Lumens per Lamp: N/A  
Luminaire Lumens: 19528.7 lumens  
Efficiency: N/A  
Efficacy: 86.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium - Non-Cutoff  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 225  
Input Voltage (V): NR  
Input Current (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: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

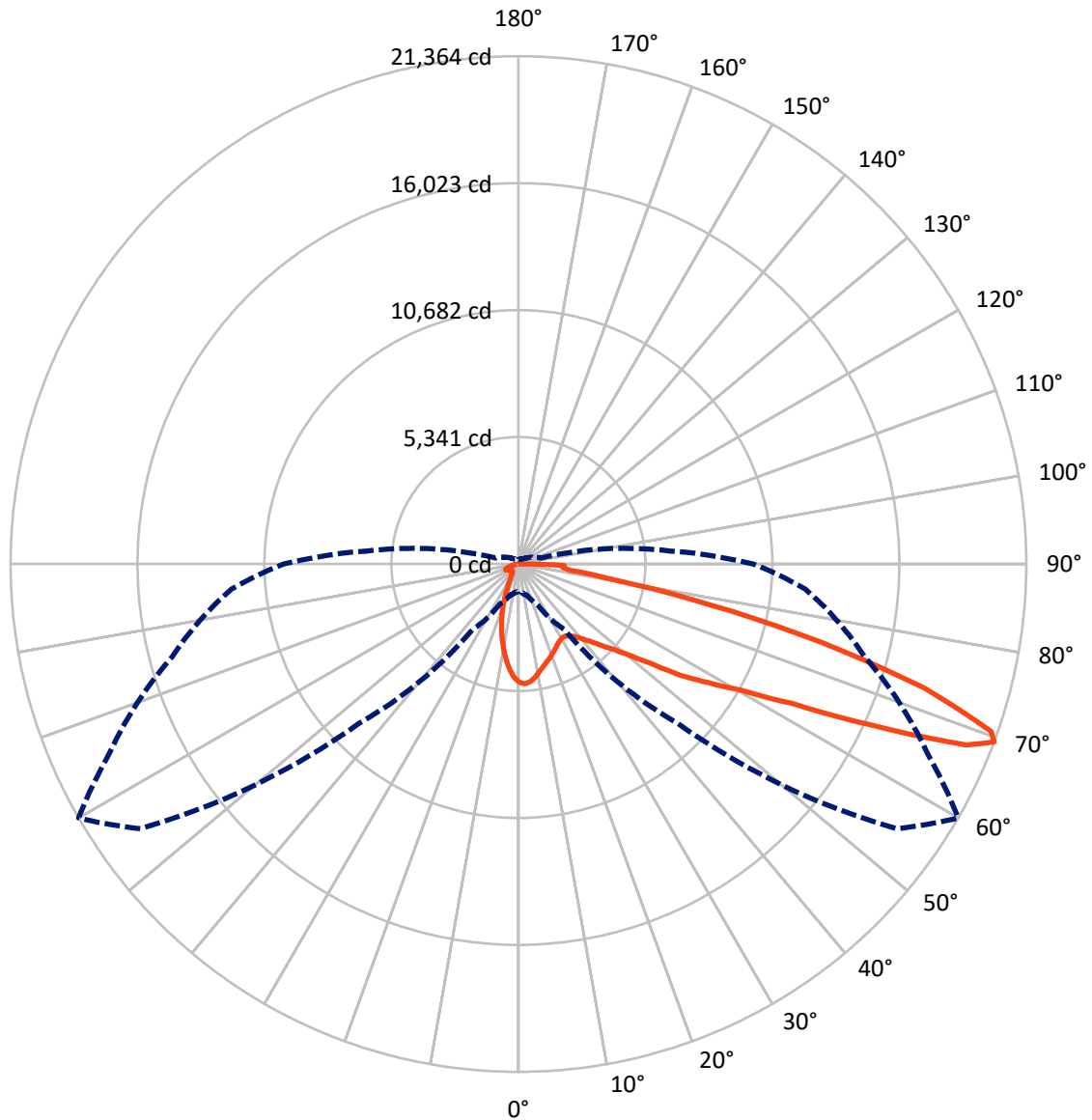
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc  
 Type III - Medium - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2778.3	0.0	2778.3
	% Fixture	14.2	0.0	14.2
<b>Street Side</b>	Lumens	16750.4	0.0	16750.4
	% Fixture	85.8	0.0	85.8
<b>Total</b>	Lumens	19528.7	0.0	19528.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	420.8	2.2
10°-20°	896.5	4.6
20°-30°	1142.2	5.8
30°-40°	1570.3	8.0
40°-50°	2547.9	13.0
50°-60°	4086.2	20.9
60°-70°	5438.5	27.8
70°-80°	2936.4	15.0
80°-90°	490.0	2.5
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°	19528.7	100.0
0°-180°	19528.7	100.0

**Coefficient of Utilization**



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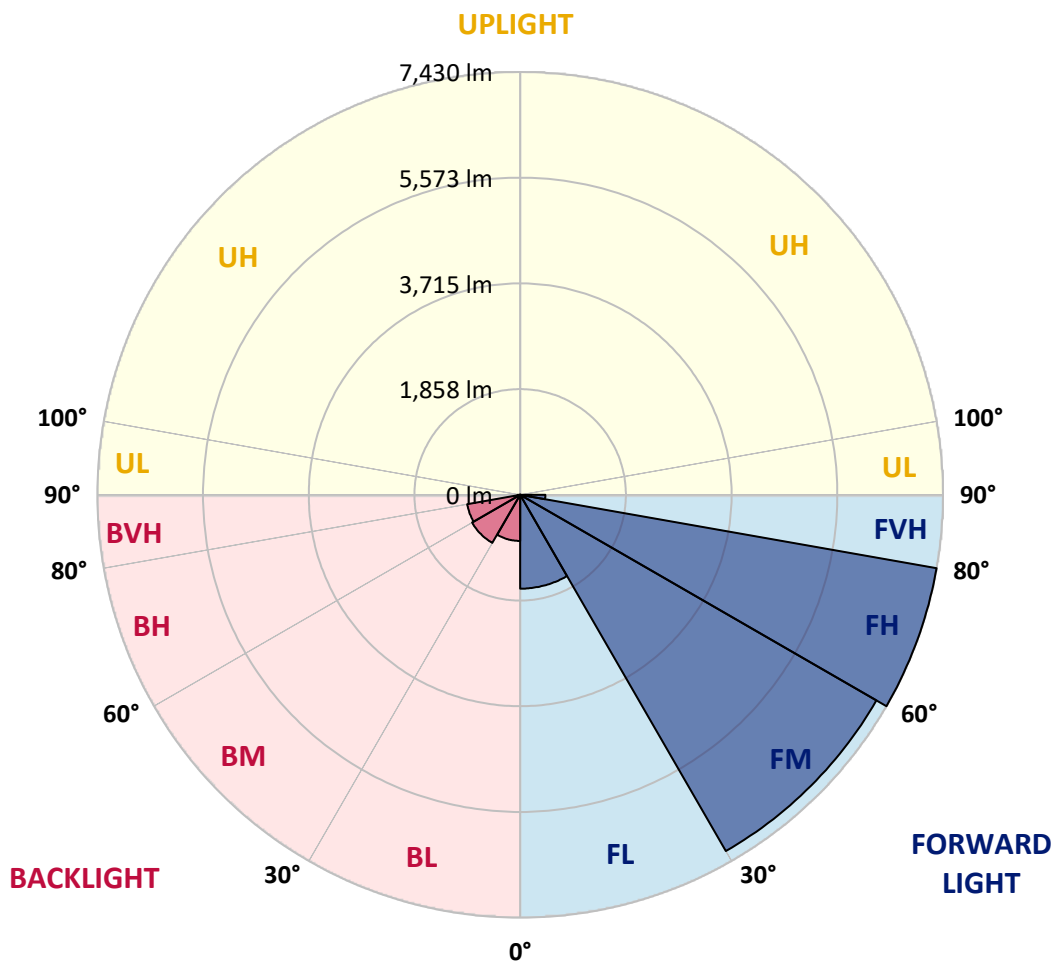
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1648.9	8.4			
FM	(30°-60°)	7228.4	37.0			
FH	(60°-80°)	7430.3	38.0			G3/7500
FVH	(80°-90°)	442.8	2.3			G3/500
BL	(0°-30°)	810.5	4.2	B2/1000		
BM	(30°-60°)	976.1	5.0	B1/1000		
BH	(60°-80°)	944.5	4.8	B2/1000		G2/1000
BVH	(80°-90°)	47.2	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	4976.2	4976.2	4976.2	4976.2	4976.2	4976.2	4976.2	4976.2	4976.2	4976.2	4976.2
2.5°	5078.1	5089.4	5084.7	5081.9	5090.4	5077.1	5049.8	5041.3	5028.1	4997.0	4944.1
5°	4887.5	4921.5	4919.6	4945.1	4987.5	4998.8	4986.6	4988.5	4963.9	4925.3	4837.5
7.5°	4558.3	4572.4	4580.0	4635.7	4713.0	4775.3	4828.1	4845.1	4833.8	4800.7	4687.5
10°	4218.7	4230.0	4247.9	4313.0	4411.1	4497.0	4597.0	4654.5	4679.0	4673.4	4547.0
12.5°	3927.2	3938.5	3962.1	4035.7	4152.7	4258.3	4403.6	4475.3	4533.8	4568.7	4432.8
15°	3665.9	3690.4	3713.0	3798.0	3929.1	4067.8	4231.9	4322.5	4413.0	4491.3	4331.9
17.5°	3462.1	3486.6	3499.9	3577.2	3716.8	3886.6	4079.1	4185.7	4298.9	4427.2	4231.9
20°	3344.2	3355.5	3349.9	3393.3	3518.7	3698.9	3927.2	4050.8	4187.6	4366.8	4131.9
22.5°	3311.2	3312.1	3291.4	3286.7	3367.8	3519.7	3764.9	3914.9	4082.8	4327.2	4046.1
25°	3391.4	3388.5	3331.9	3285.7	3294.2	3382.9	3608.3	3782.9	3995.1	4318.7	3980.0
27.5°	3569.7	3578.2	3494.2	3407.4	3321.6	3318.7	3489.5	3673.4	3923.4	4357.4	3951.7
30°	3819.6	3833.8	3744.2	3633.8	3472.5	3339.5	3443.3	3608.3	3879.1	4437.5	3947.0
32.5°	4093.2	4108.3	4040.4	3924.4	3713.0	3467.8	3475.3	3614.0	3877.2	4549.8	3979.1
35°	4384.7	4401.7	4366.8	4268.7	4033.8	3704.6	3598.0	3705.5	3938.5	4721.5	4064.9
37.5°	4710.2	4736.6	4746.0	4652.6	4401.7	4016.8	3798.9	3879.1	4077.2	4960.2	4222.5
40°	5179.0	5215.8	5213.0	5079.0	4823.4	4438.5	4109.3	4130.0	4293.2	5279.0	4474.3
42.5°	6077.1	6084.6	5849.8	5558.3	5287.5	4881.9	4475.3	4458.3	4591.3	5682.8	4845.1
45°	7219.5	7188.4	6665.8	6102.6	5772.4	5391.3	4951.7	4868.7	4969.6	6175.2	5309.2
47.5°	8167.6	8095.9	7435.5	6658.2	6285.6	5945.0	5511.1	5365.8	5421.5	6733.7	5909.2
50°	8496.8	8443.0	7895.9	7120.5	6771.4	6620.5	6199.7	5994.1	6009.2	7399.7	6612.0
52.5°	8426.1	8418.5	8053.4	7425.2	7226.1	7329.9	7175.2	6896.9	6749.7	8139.3	7370.4
55°	8259.1	8275.1	8143.1	7779.9	7745.9	8014.8	8449.6	8244.0	7786.5	8885.5	8154.4
57.5°	7678.9	7720.4	8011.0	8226.1	8582.7	8982.6	9476.0	9417.5	8902.5	9692.0	9086.4
60°	6186.5	6282.8	7062.0	8139.3	9443.9	10694.8	10915.6	10779.7	10053.3	10692.9	10317.5
62.5°	4334.7	4434.7	5361.1	7046.9	9302.4	12628.7	13489.1	12903.2	11706.1	12167.4	11910.8
65°	2320.7	2368.8	3076.3	4889.4	7853.4	13027.7	17250.2	16358.7	14323.0	13985.3	13274.0
67.5°	1280.1	1306.5	1577.3	2468.8	5030.0	11472.2	19646.3	20319.9	17593.6	15195.6	13025.9
69°	1157.5	1182.0	1359.4	1869.7	3365.9	9485.4	19412.4	21364.2	19027.5	15075.8	12108.9
70°	1132.0	1154.7	1314.1	1723.5	2724.4	7818.5	18628.5	21097.2	19369.0	14646.5	11309.0
72.5°	1018.8	1043.4	1198.1	1548.0	2328.2	3897.9	14756.0	17837.9	17585.1	12699.5	8577.9
75°	950.0	972.6	1234.9	1516.0	2229.2	2466.9	9727.9	13146.6	12926.8	8883.6	4625.3
77.5°	406.6	404.7	572.6	1283.0	2262.2	2388.6	5227.1	8212.9	7493.1	3797.0	1328.2
80°	271.7	267.0	271.7	377.3	2074.4	2401.8	2738.6	4168.7	3148.9	967.9	654.7
82.5°	234.0	230.2	238.7	230.2	729.2	2741.4	2328.2	2216.9	1497.1	550.0	324.5
85°	157.5	150.9	205.7	206.6	344.3	2435.7	2622.5	1872.6	1211.3	326.4	160.4
87.5°	75.5	73.6	119.8	146.2	201.9	989.6	2942.3	1918.8	1221.6	167.0	76.4
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°	4976.2	4976.2	4976.2	4976.2	4976.2	4976.2	4976.2	4976.2	4976.2	4976.2	4976.2
2.5°	4928.1	4889.4	4851.7	4806.4	4759.2	4706.4	4680.0	4653.6	4647.0	4639.4	4613.0
5°	4792.2	4737.5	4643.2	4539.4	4430.0	4323.4	4242.3	4191.3	4152.7	4132.8	4097.9
7.5°	4616.8	4536.6	4371.5	4192.3	4008.3	3840.4	3695.1	3603.6	3516.8	3476.3	3430.0
10°	4449.8	4330.0	4073.4	3809.3	3545.1	3291.4	3052.7	2883.8	2733.8	2649.9	2590.5
12.5°	4306.4	4142.3	3786.6	3429.1	3066.9	2705.5	2348.0	2066.9	1832.0	1708.4	1645.2
15°	4166.8	3968.7	3514.0	3060.2	2595.2	2103.7	1633.9	1315.0	1120.7	1043.4	1016.9
17.5°	4040.4	3786.6	3240.4	2688.6	2108.4	1514.1	1098.1	922.6	848.1	822.6	814.1
20°	3903.6	3602.7	2956.5	2299.9	1600.9	1058.4	857.5	780.2	750.0	742.4	738.6
22.5°	3771.5	3421.6	2684.8	1883.9	1150.0	816.9	736.8	704.7	700.0	706.6	706.6
25°	3659.3	3259.3	2391.4	1449.0	844.3	687.7	659.4	651.9	669.8	694.3	699.0
27.5°	3575.3	3126.3	2079.2	1069.8	672.6	598.1	597.1	609.4	653.7	700.9	710.3
30°	3517.8	2999.9	1745.2	771.7	564.1	526.4	541.5	567.9	633.0	700.0	717.9
32.5°	3488.5	2906.5	1397.1	597.1	483.0	462.2	487.7	519.8	583.9	646.2	669.8
35°	3511.2	2837.6	1068.8	498.1	426.4	410.4	436.8	467.9	505.6	532.1	550.0
37.5°	3596.1	2810.3	806.6	446.2	387.7	372.6	393.4	411.3	426.4	433.9	442.4
40°	3779.1	2839.5	646.2	419.8	366.0	347.2	355.6	362.2	371.7	379.2	383.0
42.5°	4048.9	2927.2	579.2	409.4	354.7	327.3	325.5	328.3	340.6	354.7	357.5
45°	4426.2	3081.9	574.5	416.0	349.0	311.3	302.8	306.6	325.5	347.2	350.9
47.5°	4908.3	3317.8	612.2	435.8	353.8	302.8	288.7	293.4	317.0	346.2	350.9
50°	5492.2	3647.0	675.4	465.1	374.5	304.7	284.0	286.8	311.3	343.4	348.1
52.5°	6181.8	4114.0	744.3	493.4	396.2	317.0	287.7	281.1	303.8	332.1	337.7
55°	6948.8	4713.0	815.1	518.8	407.5	332.1	295.3	273.6	289.6	313.2	317.9
57.5°	7890.2	5550.7	937.7	543.4	415.1	342.4	302.8	266.0	271.7	288.7	292.4
60°	9164.7	6735.6	1153.7	583.9	432.1	346.2	301.9	259.4	253.8	263.2	265.1
62.5°	10692.0	8022.3	1333.9	634.9	460.4	349.0	296.2	254.7	238.7	238.7	240.6
65°	11598.6	8366.6	1233.9	677.3	483.9	346.2	289.6	250.0	227.3	217.0	217.9
67.5°	10829.7	7358.2	1057.5	685.8	483.0	333.0	279.2	241.5	216.0	200.0	199.0
69°	9866.6	6348.8	978.3	663.2	460.4	316.0	266.0	232.1	207.5	190.6	189.6
70°	9090.2	5732.8	926.4	638.7	435.8	303.8	255.6	223.6	200.9	184.9	183.0
72.5°	6609.2	3756.4	791.5	549.0	359.4	254.7	220.7	196.2	179.2	169.8	167.9
75°	3302.7	1791.4	642.4	445.3	275.5	203.8	181.1	164.1	155.7	153.8	152.8
77.5°	1084.9	820.7	459.4	332.1	204.7	159.4	146.2	134.0	132.1	137.7	135.8
80°	596.2	477.3	291.5	219.8	139.6	117.0	115.1	108.5	111.3	120.7	118.9
82.5°	303.8	248.1	180.2	132.1	94.3	84.0	91.5	87.7	91.5	100.0	99.1
85°	150.0	135.8	114.1	80.2	62.3	53.8	65.1	67.9	69.8	76.4	76.4
87.5°	86.8	80.2	60.4	37.7	31.1	28.3	37.7	36.8	43.4	47.2	46.2
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)