

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: P192937

Luminaire Tested: **GAN-AF-09-LED-U-SL4-7030-600-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P192937  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24301)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-AF-09-LED-U-SL4-7030-600-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 27521.3 lumens  
Efficiency: N/A  
Efficacy: 94.9 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B2 - U0 - G4

Input Watts (W): 290  
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

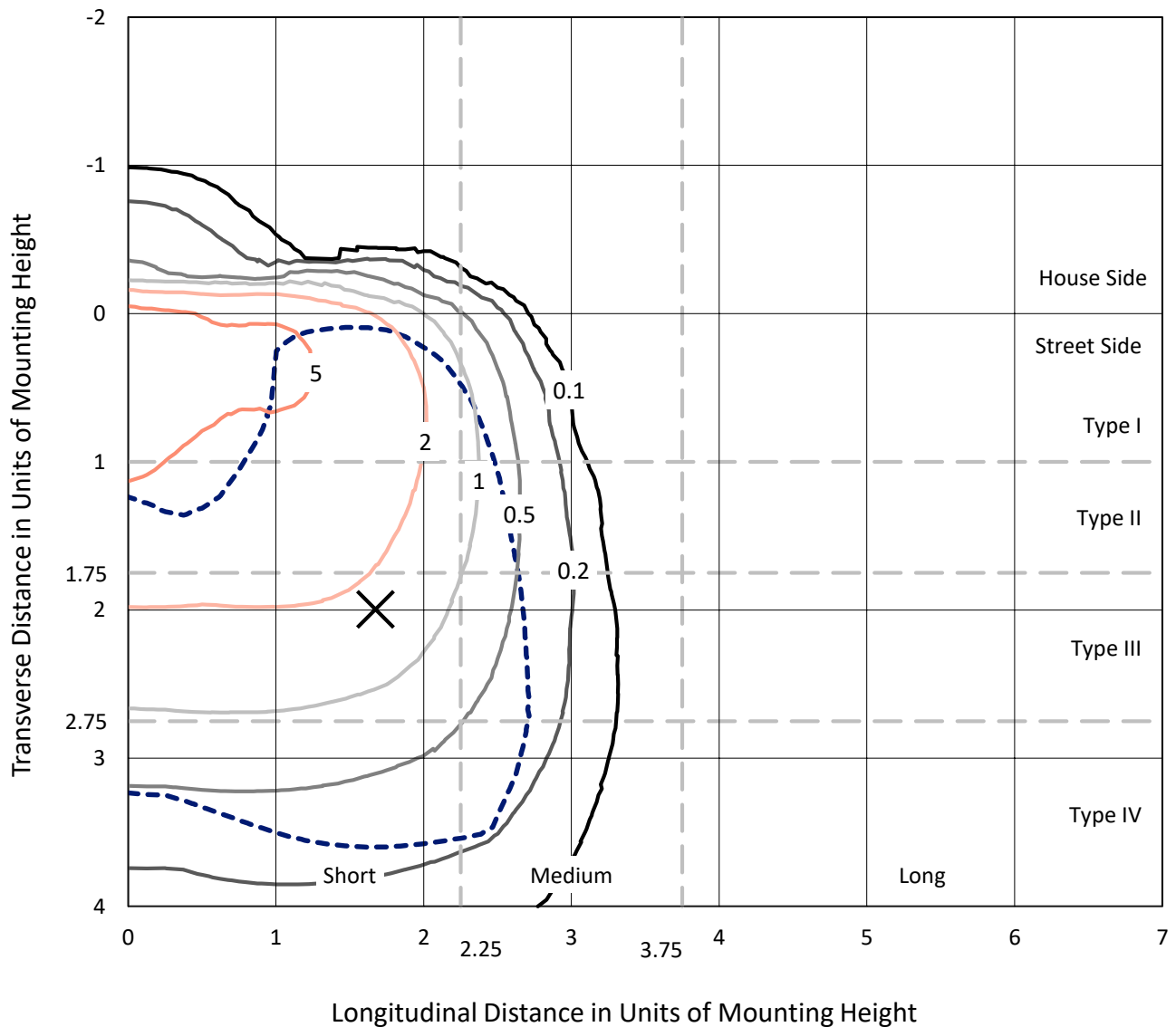


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

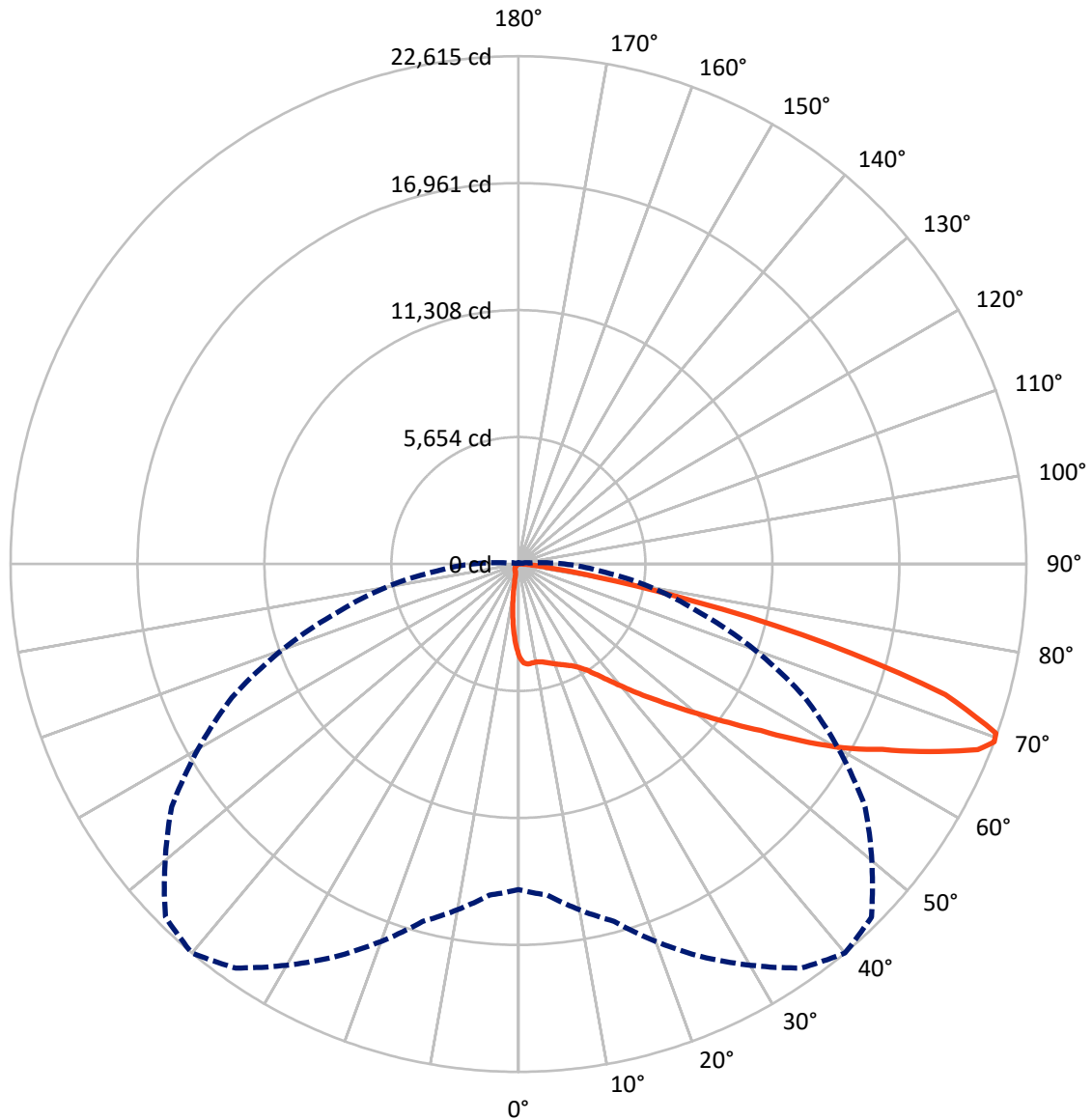


Based on 25 foot mounting height. Maximum calculated value = 7.2 fc  
 Type IV - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1610.2	0.0	1610.2
	% Fixture	5.9	0.0	5.9
<b>Street Side</b>	Lumens	25911.1	0.0	25911.1
	% Fixture	94.1	0.0	94.1
<b>Total</b>	Lumens	27521.3	0.0	27521.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	333.4	1.2
10°-20°	819.9	3.0
20°-30°	1380.9	5.0
30°-40°	2260.6	8.2
40°-50°	3914.2	14.2
50°-60°	6165.3	22.4
60°-70°	8051.6	29.3
70°-80°	4146.9	15.1
80°-90°	448.6	1.6
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°	27521.3	100.0
0°-180°	27521.3	100.0

**Coefficient of Utilization**



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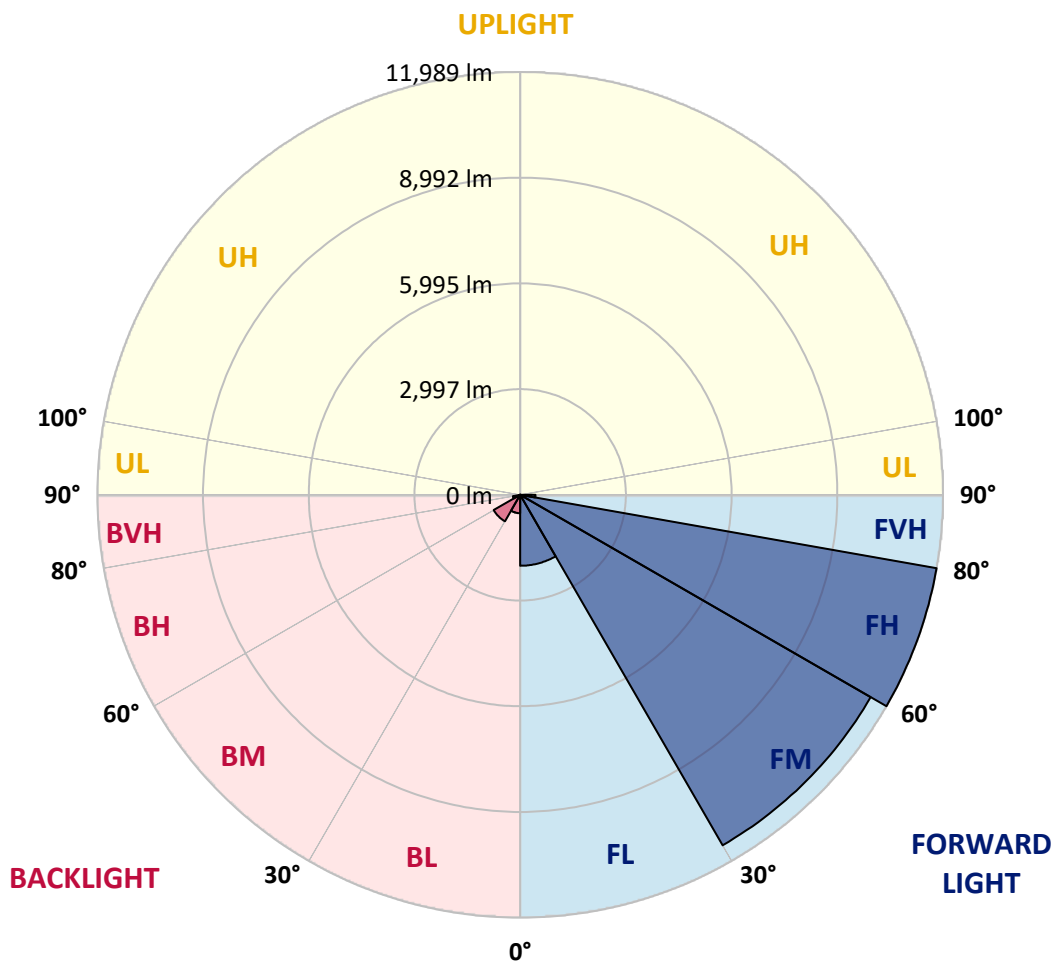
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2012.6	7.3			
FM	(30°-60°)	11474.7	41.7			
FH	(60°-80°)	11989.4	43.6			G4/12000
FVH	(80°-90°)	434.5	1.6			G3/500
BL	(0°-30°)	521.6	1.9	B2/1000		
BM	(30°-60°)	865.4	3.1	B1/1000		
BH	(60°-80°)	209.1	0.8	B1/500		G1/500
BVH	(80°-90°)	14.1	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	4111.9	4111.9	4111.9	4111.9	4111.9	4111.9	4111.9	4111.9	4111.9	4111.9	4111.9
2.5°	4514.8	4490.2	4475.5	4455.8	4431.2	4409.9	4401.8	4341.2	4283.8	4205.2	4115.1
5°	4598.4	4590.2	4564.0	4537.7	4508.2	4475.5	4457.4	4385.4	4303.5	4188.8	4031.5
7.5°	4606.6	4596.7	4564.0	4527.9	4486.9	4447.6	4416.5	4344.4	4269.1	4152.7	3961.0
10°	4593.5	4582.0	4557.4	4518.1	4467.3	4429.6	4398.6	4329.7	4265.8	4160.9	3948.0
12.5°	4578.7	4567.2	4555.8	4536.1	4491.8	4465.7	4439.4	4373.9	4316.7	4228.2	3995.5
15°	4593.5	4586.9	4600.1	4591.8	4567.2	4544.3	4518.1	4459.1	4406.7	4333.0	4082.4
17.5°	4655.6	4655.6	4696.6	4701.5	4678.6	4645.9	4608.2	4549.2	4505.0	4442.7	4185.5
20°	4801.5	4796.6	4849.0	4858.9	4803.1	4752.3	4696.6	4624.6	4590.2	4550.8	4287.2
22.5°	5052.1	5029.2	5060.4	5050.5	4940.7	4862.1	4793.3	4704.8	4686.7	4668.7	4400.2
25°	5378.2	5365.0	5386.4	5289.7	5096.4	4989.9	4907.9	4808.1	4808.1	4826.1	4527.9
27.5°	5851.6	5802.4	5730.3	5559.9	5270.0	5134.1	5045.6	4939.1	4966.9	5034.1	4696.6
30°	6336.5	6282.4	6117.0	5854.8	5481.3	5338.9	5235.6	5124.3	5189.7	5312.6	4922.6
32.5°	6814.8	6754.2	6519.9	6189.0	5784.4	5641.9	5541.9	5419.0	5528.8	5735.2	5253.6
35°	7278.5	7224.3	6954.1	6564.2	6187.4	6069.5	5977.7	5871.3	6012.1	6300.4	5720.5
37.5°	7799.4	7740.4	7411.2	6988.4	6677.2	6592.0	6524.9	6418.3	6664.2	7086.8	6370.9
40°	8439.8	8340.0	7896.0	7475.0	7244.0	7203.0	7157.2	7142.5	7524.1	8109.0	7237.5
42.5°	9173.9	9009.9	8403.9	7987.7	7866.5	7896.0	7884.5	7950.0	8600.5	9380.2	8292.4
45°	9907.7	9696.3	8969.0	8534.9	8551.2	8654.5	8718.4	8980.4	9948.6	10838.2	9427.8
47.5°	10530.2	10322.2	9511.2	9126.3	9322.9	9526.0	9699.6	10196.0	11334.5	12273.2	10310.7
50°	11062.6	10866.1	10086.3	9776.6	10218.9	10546.6	10828.3	11563.9	12825.3	13365.9	10930.0
52.5°	11498.3	11367.4	10682.6	10522.0	11242.8	11722.8	12135.7	13016.9	14145.7	14253.8	11411.6
55°	11922.7	11829.3	11323.1	11408.3	12445.2	13098.9	13621.5	14558.5	15282.5	14994.2	11873.5
57.5°	12410.9	12325.6	12053.7	12532.0	14026.0	14848.5	15418.5	15924.7	16283.5	15751.1	12309.2
60°	12908.9	12859.7	12866.3	13780.4	15841.2	16630.8	16945.3	17076.3	17266.4	16463.7	12333.8
62.5°	13383.9	13477.2	13795.1	15169.5	17579.3	18185.4	18344.3	18473.8	18250.8	16576.7	11395.2
65°	14188.3	14340.6	15099.1	17028.8	19491.1	20139.8	20303.5	19859.6	18406.6	15115.5	9268.8
67.5°	14581.4	14860.0	16213.1	18762.0	21345.4	22066.2	22005.7	19949.7	16517.7	11526.2	5948.2
69°	14499.5	14796.0	16470.3	19292.8	21961.4	22615.0	22230.1	18847.2	14071.9	8349.8	3651.5
70°	14175.2	14474.8	16337.5	19273.2	22040.0	22557.6	21813.9	17486.0	11898.2	6105.5	2283.6
72.5°	11837.4	12096.3	14504.3	17420.4	20303.5	19882.6	18249.2	12114.3	5797.6	1662.7	514.4
75°	7286.6	7430.7	10407.4	13123.4	15335.0	14253.8	12158.6	6026.8	1728.3	470.2	285.0
77.5°	3849.7	3915.2	5697.6	7735.4	9720.9	8043.4	6231.6	2350.8	796.2	294.9	206.4
80°	2275.5	2324.6	3068.3	3536.8	4206.8	3513.9	2491.6	1443.2	570.2	185.0	183.4
82.5°	1302.4	1333.5	2224.6	1965.8	1657.8	1415.4	1240.1	1367.9	342.4	124.5	190.0
85°	478.3	484.9	1251.6	1495.6	986.2	586.5	616.0	1133.6	91.8	78.6	149.0
87.5°	222.8	217.9	643.7	915.7	576.7	371.9	479.9	249.0	36.0	50.8	41.0
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°	4111.9	4111.9	4111.9	4111.9	4111.9	4111.9	4111.9	4111.9	4111.9	4111.9	4111.9
2.5°	4062.7	4002.0	3892.4	3779.3	3664.5	3576.2	3489.3	3420.5	3397.5	3355.1	3358.3
5°	3938.1	3826.8	3597.5	3364.8	3122.4	2922.4	2734.1	2581.8	2508.0	2432.6	2432.6
7.5°	3830.1	3667.9	3309.1	2930.7	2539.1	2209.9	1913.3	1690.6	1567.8	1469.4	1467.8
10°	3789.1	3569.6	3068.3	2526.1	1980.6	1531.7	1179.5	953.4	837.2	761.7	758.5
12.5°	3807.1	3535.2	2883.3	2152.5	1467.8	984.5	683.1	537.3	488.2	465.2	465.2
15°	3859.6	3525.4	2698.0	1787.3	1037.0	616.0	453.8	414.4	411.2	411.2	411.2
17.5°	3923.4	3528.6	2508.0	1431.8	706.1	440.7	391.4	386.6	389.8	389.8	389.8
20°	3988.9	3530.2	2303.3	1102.5	498.0	383.3	368.6	367.0	370.3	370.3	371.9
22.5°	4069.3	3538.5	2098.6	824.1	411.2	362.0	350.6	350.6	352.3	352.3	350.6
25°	4160.9	3554.9	1885.6	611.1	375.2	347.3	337.5	335.9	337.5	335.9	334.3
27.5°	4275.7	3577.8	1647.9	478.3	358.8	332.5	324.4	324.4	322.8	321.1	319.5
30°	4419.7	3604.0	1381.0	406.2	342.4	319.5	311.3	309.6	308.0	304.8	304.8
32.5°	4639.3	3661.3	1117.2	368.6	324.4	301.4	294.9	294.9	291.6	288.3	286.7
35°	4976.8	3774.4	881.2	345.7	304.8	281.8	273.5	273.5	270.3	268.7	267.0
37.5°	5443.7	3946.3	684.7	324.4	285.0	260.5	252.3	250.6	247.4	244.0	242.4
40°	6064.6	4159.3	538.9	304.8	265.4	239.2	232.6	229.3	222.8	217.9	217.9
42.5°	6844.3	4401.8	437.4	283.4	242.4	219.5	214.5	209.7	198.2	193.3	191.6
45°	7660.1	4619.7	370.3	258.8	219.5	199.8	196.5	188.4	173.6	168.7	168.7
47.5°	8248.2	4670.4	326.0	235.9	198.2	178.5	176.9	162.1	149.0	145.8	144.1
50°	8615.2	4570.6	290.0	212.9	178.5	158.9	153.9	135.9	127.8	124.5	122.9
52.5°	8862.6	4392.0	260.5	193.3	160.5	140.8	129.4	116.4	109.8	106.5	106.5
55°	9060.8	4139.8	231.0	175.3	145.8	126.0	109.8	100.0	93.4	90.1	90.1
57.5°	9116.5	3797.3	201.5	160.5	131.0	111.5	93.4	86.9	78.6	77.0	77.0
60°	8711.8	3179.7	178.5	142.5	118.0	96.7	82.0	73.8	65.5	63.9	62.3
62.5°	7645.4	2460.5	157.3	126.0	103.2	83.6	70.5	60.6	54.1	54.1	54.1
65°	5831.9	1649.6	137.5	109.8	90.1	70.5	60.6	49.1	45.9	45.9	47.5
67.5°	3491.0	897.7	118.0	93.4	77.0	59.0	50.8	42.6	41.0	42.6	42.6
69°	2046.1	527.5	106.5	83.6	67.2	52.5	44.2	37.7	41.0	42.6	42.6
70°	1263.0	355.5	98.4	75.4	60.6	47.5	41.0	36.0	39.4	41.0	41.0
72.5°	352.3	183.4	78.6	59.0	49.1	39.4	32.8	32.8	37.7	39.4	39.4
75°	229.3	135.9	60.6	44.2	37.7	31.1	27.9	31.1	36.0	37.7	37.7
77.5°	190.0	111.5	49.1	36.0	31.1	29.5	26.2	27.9	32.8	34.4	34.4
80°	173.6	78.6	39.4	32.8	27.9	26.2	24.6	23.0	29.5	31.1	31.1
82.5°	165.4	62.3	34.4	29.5	26.2	23.0	21.3	23.0	26.2	27.9	29.5
85°	103.2	41.0	31.1	27.9	23.0	21.3	21.3	21.3	24.6	26.2	26.2
87.5°	37.7	32.8	27.9	23.0	19.6	19.6	19.6	19.6	21.3	24.6	24.6
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)