

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: P268681

Luminaire Tested: **GAN-AF-07-LED-U-SL4-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268681
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24294)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-07-LED-U-SL4-7027
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34757.2 lumens
Efficiency: N/A
Efficacy: 88.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 391
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

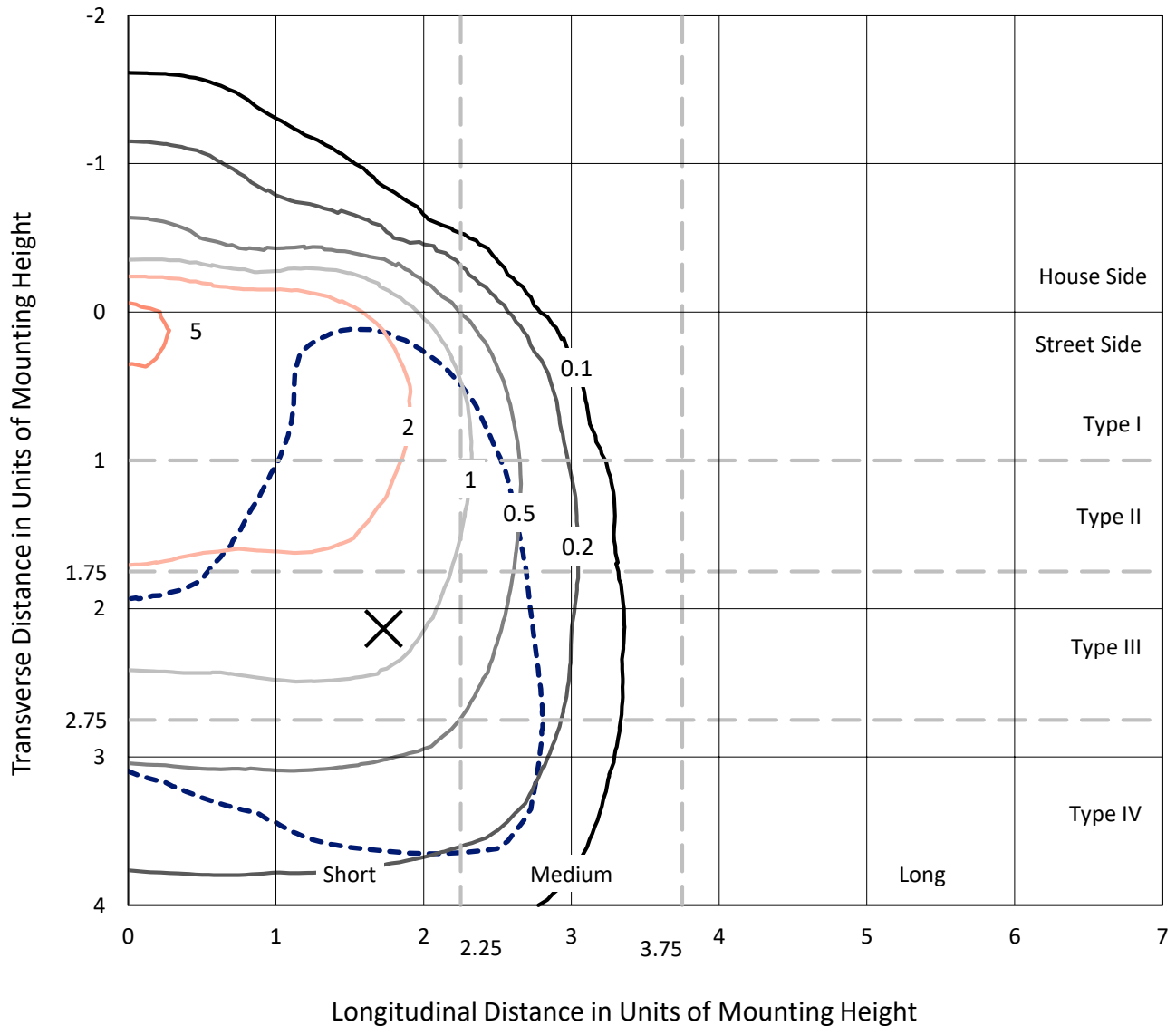


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

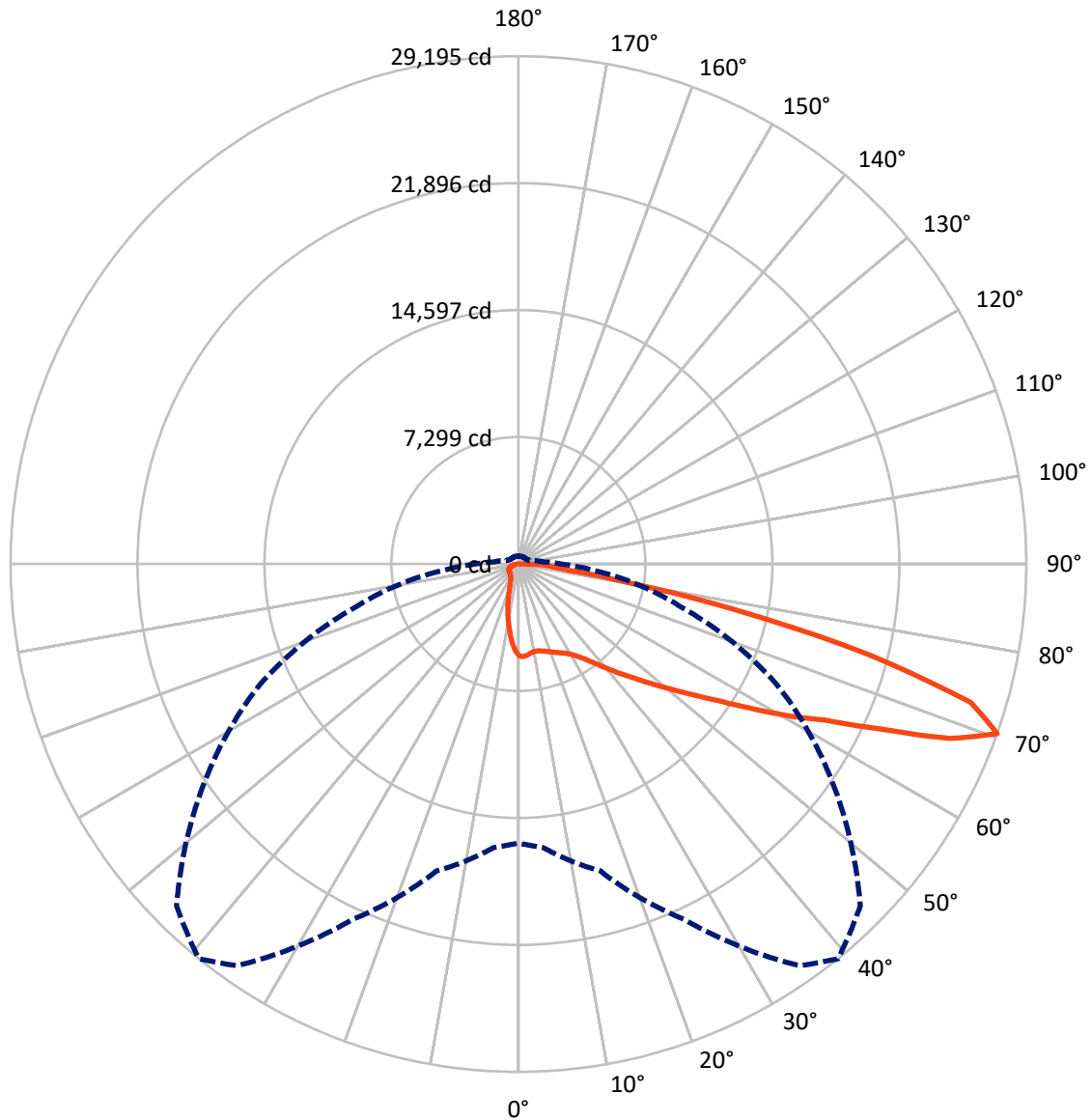


Based on 30 foot mounting height. Maximum calculated value = 5.9 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3953.1	0.0	3953.1
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	30804.1	0.0	30804.1
	% Fixture	88.6	0.0	88.6
Total	Lumens	34757.2	0.0	34757.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	452.8	1.3
10°-20°	1131.9	3.3
20°-30°	1762.4	5.1
30°-40°	2745.6	7.9
40°-50°	4609.3	13.3
50°-60°	7322.3	21.1
60°-70°	9767.2	28.1
70°-80°	5898.2	17.0
80°-90°	1067.5	3.1
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°	34757.2	100.0
0°-180°	34757.2	100.0

Coefficient of Utilization



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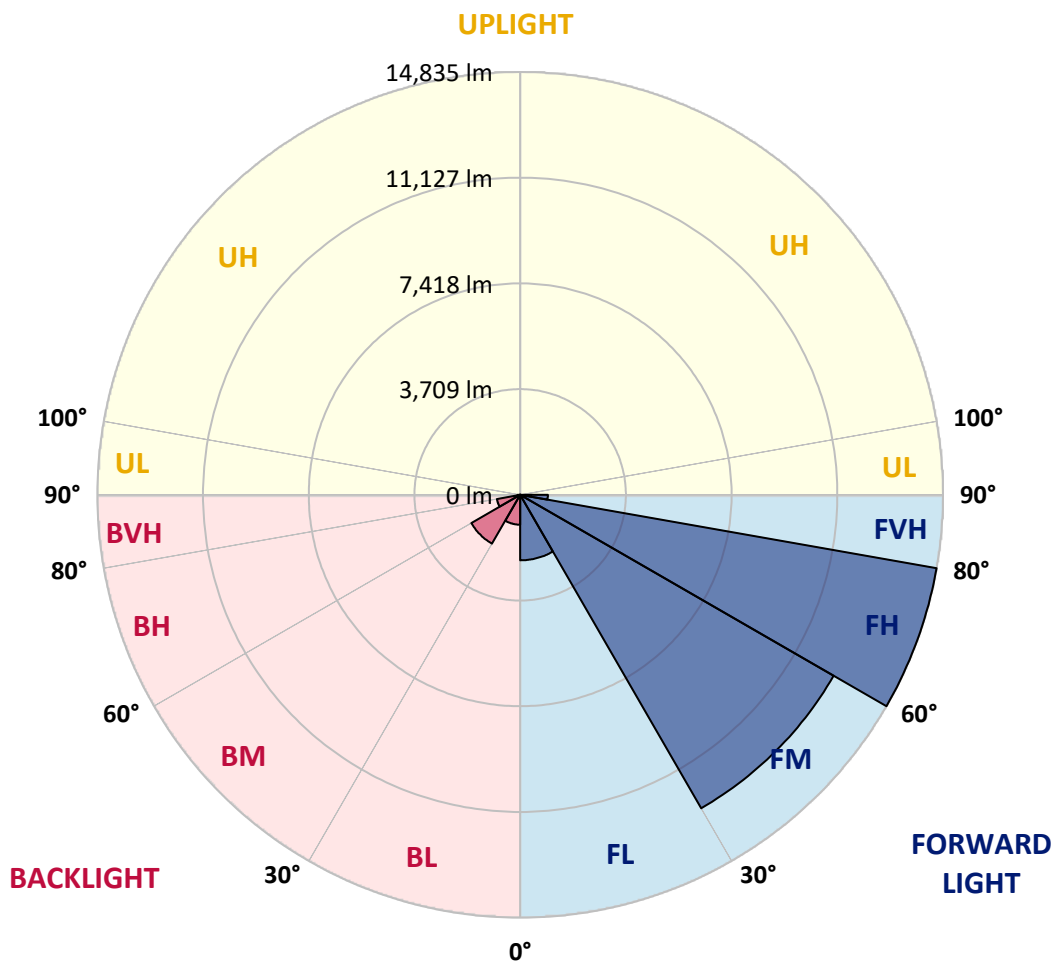
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2298.5	6.6			
FM	(30°-60°)	12698.9	36.5			
FH	(60°-80°)	14835.4	42.7			G5
FVH	(80°-90°)	971.3	2.8			G5
BL	(0°-30°)	1048.7	3.0	B3/2500		
BM	(30°-60°)	1978.3	5.7	B2/2500		
BH	(60°-80°)	829.9	2.4	B2/1000		G2/1000
BVH	(80°-90°)	96.2	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	5276.6	5276.6	5276.6	5276.6	5276.6	5276.6	5276.6	5276.6	5276.6	5276.6	5276.6
2.5°	5379.2	5377.4	5363.3	5352.7	5343.8	5340.3	5347.4	5320.9	5297.8	5269.5	5239.5
5°	5338.5	5336.8	5313.8	5292.5	5271.3	5264.2	5262.5	5214.8	5186.5	5144.1	5087.6
7.5°	5294.3	5285.4	5255.4	5220.1	5183.0	5165.3	5147.6	5085.8	5054.0	5011.6	4946.2
10°	5248.3	5237.7	5209.5	5174.1	5138.8	5112.3	5082.3	5022.2	4988.6	4956.8	4880.9
12.5°	5200.6	5191.8	5184.7	5168.8	5144.1	5121.1	5098.2	5046.9	5011.6	4974.5	4886.2
15°	5193.6	5190.0	5205.9	5216.5	5202.4	5188.3	5163.5	5119.4	5082.3	5045.2	4930.3
17.5°	5250.1	5248.3	5289.0	5317.3	5310.3	5285.4	5251.9	5202.4	5172.4	5140.6	4997.5
20°	5373.9	5382.7	5432.2	5469.3	5433.9	5398.6	5343.8	5274.8	5258.9	5244.8	5066.4
22.5°	5607.1	5615.9	5651.2	5665.4	5573.5	5522.3	5446.3	5358.0	5347.4	5358.0	5149.4
25°	5971.2	5962.3	5957.0	5904.0	5736.1	5656.5	5559.4	5467.5	5472.8	5520.5	5266.0
27.5°	6453.7	6406.0	6331.7	6172.7	5905.7	5817.5	5699.0	5614.1	5647.7	5739.7	5441.0
30°	6953.7	6900.7	6729.3	6469.6	6128.4	6031.2	5898.7	5803.3	5891.7	6036.5	5674.4
32.5°	7416.6	7409.6	7158.8	6824.8	6435.9	6351.0	6218.5	6110.8	6253.9	6474.9	6024.2
35°	7922.2	7938.1	7637.6	7236.4	6851.3	6762.8	6667.4	6586.2	6777.1	7080.9	6531.3
37.5°	8462.8	8494.6	8139.5	7687.1	7324.8	7287.7	7231.1	7195.9	7490.8	7911.6	7240.0
40°	9185.6	9153.8	8660.7	8196.0	7906.3	7904.5	7886.8	7929.2	8420.4	8996.5	8150.1
42.5°	9959.6	9865.9	9213.8	8742.0	8544.0	8604.2	8639.5	8812.7	9539.0	10314.8	9259.8
45°	10793.8	10583.4	9788.2	9319.8	9252.7	9380.0	9500.1	9876.5	10855.6	11815.0	10475.7
47.5°	11459.9	11256.8	10381.9	9926.0	10072.8	10265.3	10496.9	11092.4	12329.3	13365.0	11675.5
50°	11984.7	11852.1	10981.1	10632.9	10975.8	11272.7	11650.7	12469.0	13863.3	14874.0	12787.1
52.5°	12493.6	12394.8	11585.4	11357.5	12036.0	12445.9	12960.1	13946.2	15435.9	16358.5	13721.9
55°	12953.1	12882.5	12235.6	12260.4	13283.5	13817.3	14464.1	15628.6	17150.1	17682.0	14513.6
57.5°	13471.0	13380.9	12977.9	13393.2	14886.4	15579.1	16420.3	17519.5	18758.1	18858.9	15116.0
60°	13992.2	13914.4	13801.4	14700.9	16922.1	17650.2	18447.1	19351.9	20389.3	19772.6	15080.7
62.5°	14444.6	14453.5	14653.2	16073.9	18915.5	19758.4	20730.4	21624.4	21864.8	19931.6	13965.7
65°	15211.5	15351.1	15946.7	18017.8	21721.6	22849.1	24042.0	23898.8	22273.0	18445.3	11574.8
67.5°	16123.4	16369.0	17576.0	20608.3	25268.3	26765.1	27226.3	24413.1	20638.4	14994.1	8250.8
70°	16031.5	16369.0	18279.3	22539.9	28191.1	29194.9	27795.4	22094.5	16388.5	9795.3	4382.6
72.5°	14236.1	14718.5	16846.2	21654.5	27270.6	27182.2	24130.4	16471.5	9737.0	3933.7	1712.3
75°	10850.3	11338.0	13168.8	17107.7	21553.8	20811.7	17121.9	9099.0	3695.1	1562.2	1079.8
77.5°	6241.6	6619.7	8033.5	10491.6	13674.1	12912.4	9530.2	4046.8	1798.9	1088.6	842.9
80°	3484.9	3695.1	4553.9	5322.6	6700.9	6142.6	4264.2	2514.6	1343.1	789.9	650.4
82.5°	2755.0	2942.3	3682.7	3357.5	3060.6	2823.9	2449.3	2238.9	1072.7	498.3	388.7
85°	2406.9	2585.3	3117.3	2643.6	2090.5	1917.3	1989.7	2203.6	834.0	300.5	332.3
87.5°	2230.1	2468.7	2778.0	2037.5	1627.5	1442.0	1836.0	2415.7	268.7	187.3	134.2
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°	5276.6	5276.6	5276.6	5276.6	5276.6	5276.6	5276.6	5276.6	5276.6	5276.6	5276.6
2.5°	5213.0	5184.7	5138.8	5098.2	5034.6	5001.0	4963.9	4937.4	4916.2	4898.5	4926.8
5°	5052.2	4999.2	4902.1	4797.8	4674.2	4577.0	4495.6	4419.7	4366.7	4331.3	4356.1
7.5°	4900.3	4813.7	4661.8	4472.7	4260.7	4080.3	3931.9	3801.1	3711.0	3652.7	3675.7
10°	4813.7	4706.0	4470.9	4174.0	3861.3	3580.3	3346.9	3145.5	3005.9	2926.4	2938.7
12.5°	4792.5	4653.0	4327.8	3919.6	3491.9	3101.3	2772.7	2493.4	2297.2	2194.7	2198.3
15°	4808.4	4630.0	4193.4	3675.7	3134.9	2641.8	2231.8	1892.5	1664.6	1548.0	1546.3
17.5°	4834.9	4612.3	4052.1	3412.3	2772.7	2200.0	1742.4	1410.2	1208.7	1115.1	1108.0
20°	4863.2	4584.1	3893.1	3127.9	2396.3	1790.1	1364.3	1104.5	977.3	926.1	922.5
22.5°	4903.8	4559.2	3728.7	2827.4	2026.9	1457.9	1122.2	947.3	880.0	853.5	849.9
25°	4969.2	4546.9	3553.8	2514.6	1694.7	1219.3	977.3	869.4	830.6	812.8	811.1
27.5°	5078.7	4564.5	3389.3	2210.6	1424.4	1058.6	895.9	830.6	802.2	786.3	784.6
30°	5220.1	4619.4	3216.2	1922.6	1214.0	949.0	846.5	804.1	781.0	765.1	765.1
32.5°	5455.1	4711.3	3034.1	1673.5	1063.9	873.0	809.4	781.0	761.7	749.2	747.5
35°	5801.6	4884.4	2864.5	1466.8	956.1	818.1	777.6	756.4	742.2	735.2	735.2
37.5°	6305.2	5158.2	2714.3	1318.4	890.6	781.0	747.5	731.6	722.7	722.7	722.7
40°	6981.9	5536.4	2592.4	1219.3	853.5	754.5	724.6	712.1	706.8	708.7	708.7
42.5°	7817.8	6027.6	2511.1	1150.4	835.9	738.6	708.7	698.1	692.8	690.9	692.8
45°	8770.3	6586.2	2502.3	1099.2	818.1	728.0	698.1	687.5	676.9	669.7	669.7
47.5°	9696.3	7153.5	2574.7	1081.5	798.8	715.7	689.2	678.6	662.7	646.8	646.8
50°	10514.5	7635.9	2671.9	1088.6	791.6	698.1	675.0	669.7	645.1	627.3	625.6
52.5°	11164.9	8007.0	2751.5	1109.8	798.8	685.6	657.4	659.1	632.6	613.3	611.4
55°	11686.1	8250.8	2730.2	1131.0	814.7	678.6	641.5	645.1	623.9	604.4	604.4
57.5°	11914.1	8160.7	2495.2	1113.3	827.0	680.3	629.2	643.2	625.6	608.0	608.0
60°	11424.6	7360.2	2055.2	1035.6	811.1	675.0	623.9	650.4	648.5	630.9	629.2
62.5°	9943.7	5926.9	1594.0	920.8	756.4	648.5	609.7	648.5	668.0	662.7	661.0
65°	7664.1	4221.8	1217.6	796.9	682.2	604.4	572.6	608.0	634.5	641.5	639.8
67.5°	4974.5	2587.1	938.4	680.3	599.1	553.1	524.8	540.7	546.0	546.0	542.4
70°	2445.7	1392.6	747.5	572.6	514.2	498.3	482.4	473.5	464.8	457.6	457.6
72.5°	1207.0	910.1	615.0	484.1	443.6	436.4	433.0	422.4	415.2	406.5	402.9
75°	892.3	740.5	523.1	408.2	381.7	374.7	381.7	372.8	371.1	364.1	360.5
77.5°	733.3	630.9	450.6	349.9	327.0	314.5	325.1	327.0	328.7	318.1	314.5
80°	595.5	533.7	376.4	289.9	268.7	259.8	266.8	281.0	284.6	268.7	261.5
82.5°	429.4	436.4	303.9	226.3	208.5	201.5	215.7	233.3	236.9	213.8	208.5
85°	360.5	364.1	233.3	160.7	143.1	132.5	155.4	173.2	185.6	162.6	157.3
87.5°	150.1	213.8	134.2	90.1	79.5	68.9	83.1	91.8	111.3	102.4	100.7
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)