

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: P191212

Luminaire Tested: **GAN-AF-04-LED-U-SL4-HSS-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191212
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-04-LED-U-SL4-HSS-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 1050mA 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: 19935.3 lumens
Efficiency: N/A
Efficacy: 88.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G4

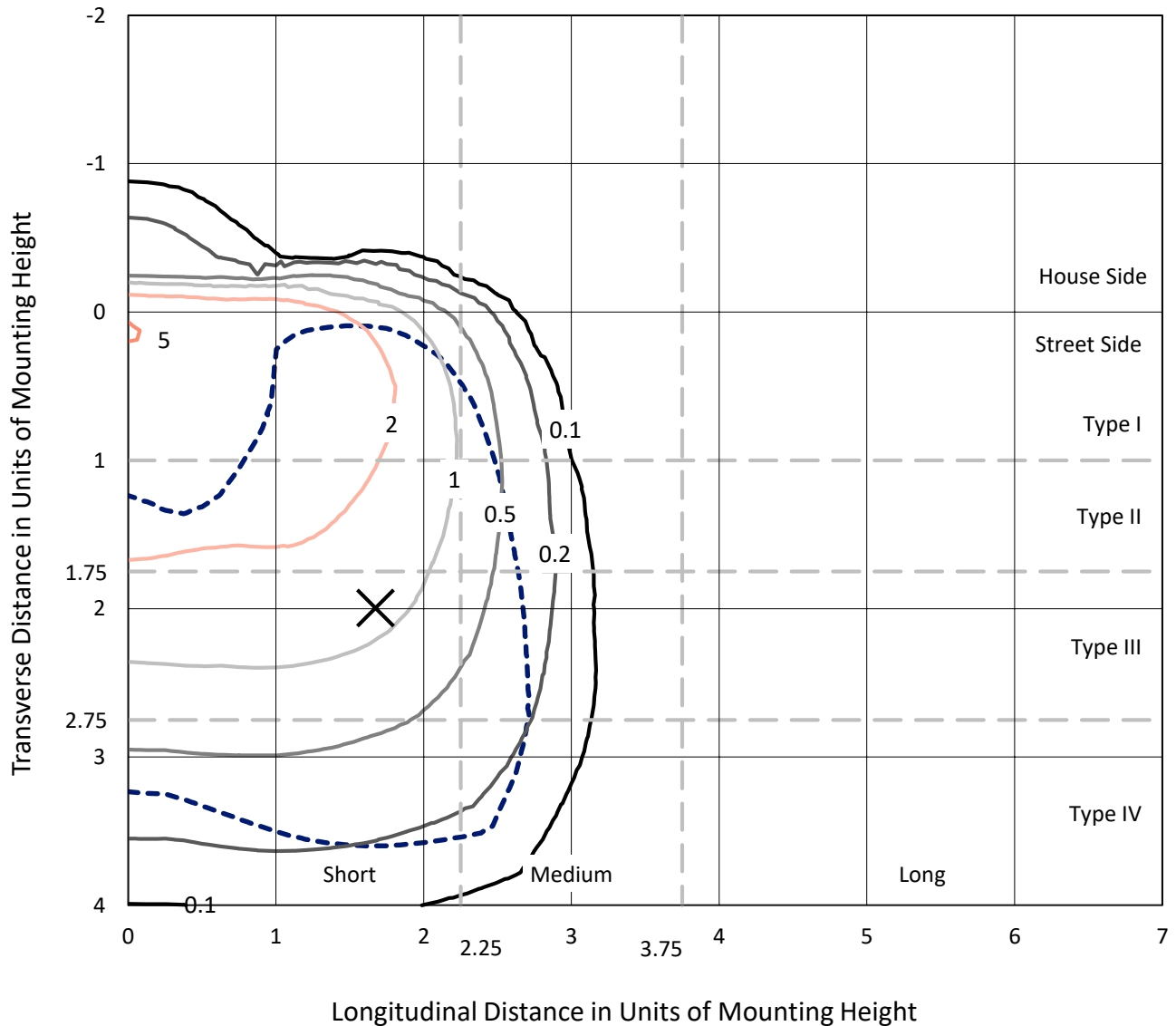
Input Watts (W): 225
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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 CATALOG NUMBER: GAN-AF-04-LED-U-SL4-HSS-ADJ

Iso-Footcandle Lines of Horizontal Illumination

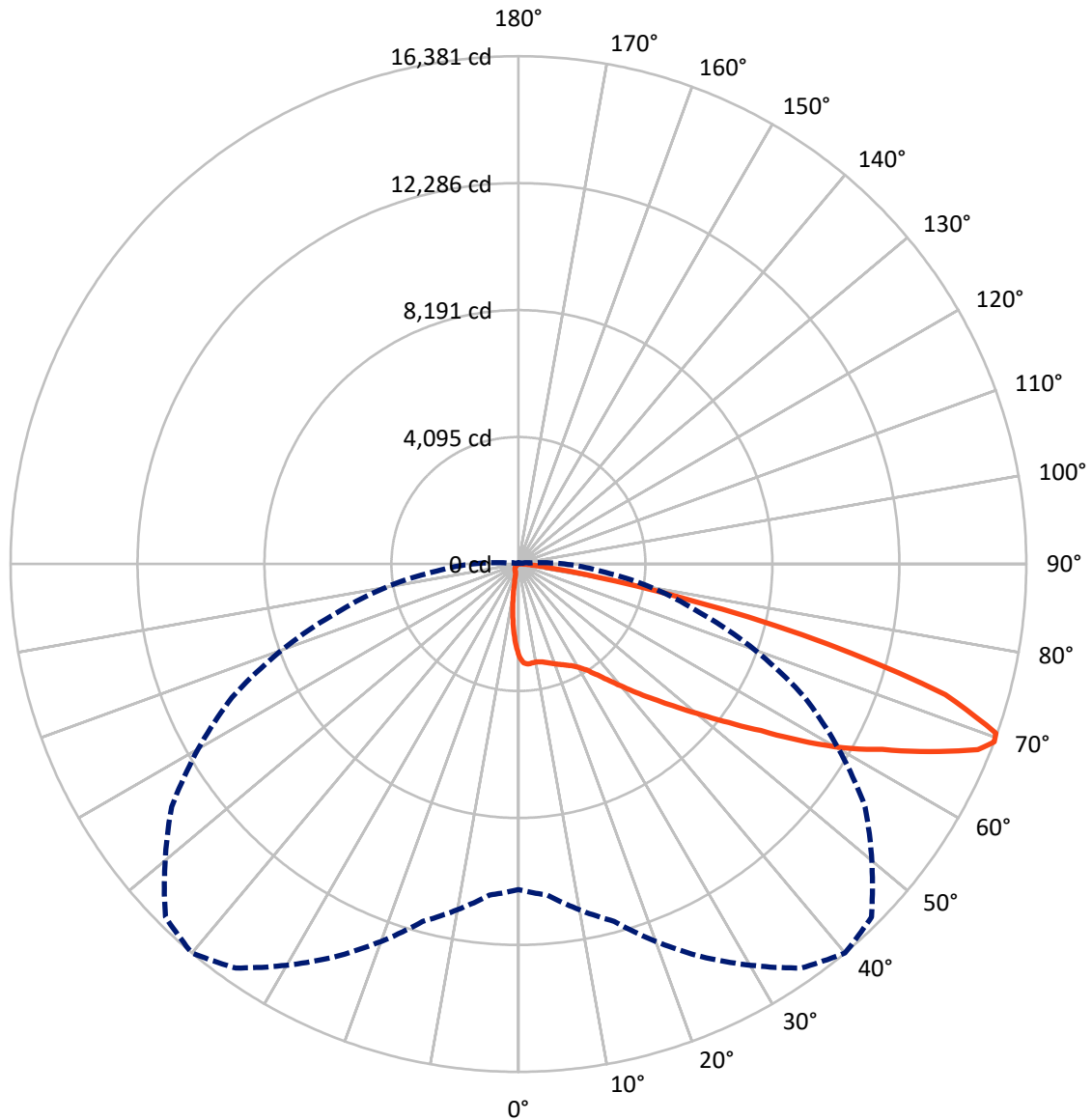
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
 Type IV - Short - Semi-Cutoff

REPORT NUMBER: P191212
CATALOG NUMBER: GAN-AF-04-LED-U-SL4-HSS-ADJ

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
House Side	Lumens	1166.3	0.0	1166.3
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	18768.9	0.0	18768.9
	% Fixture	94.1	0.0	94.1
Total	Lumens	19935.3	0.0	19935.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	241.5	1.2
10°-20°	593.9	3.0
20°-30°	1000.3	5.0
30°-40°	1637.5	8.2
40°-50°	2835.3	14.2
50°-60°	4465.8	22.4
60°-70°	5832.2	29.3
70°-80°	3003.9	15.1
80°-90°	324.9	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°	19935.3	100.0
0°-180°	19935.3	100.0

Coefficient of Utilization



REPORT NUMBER: P191212

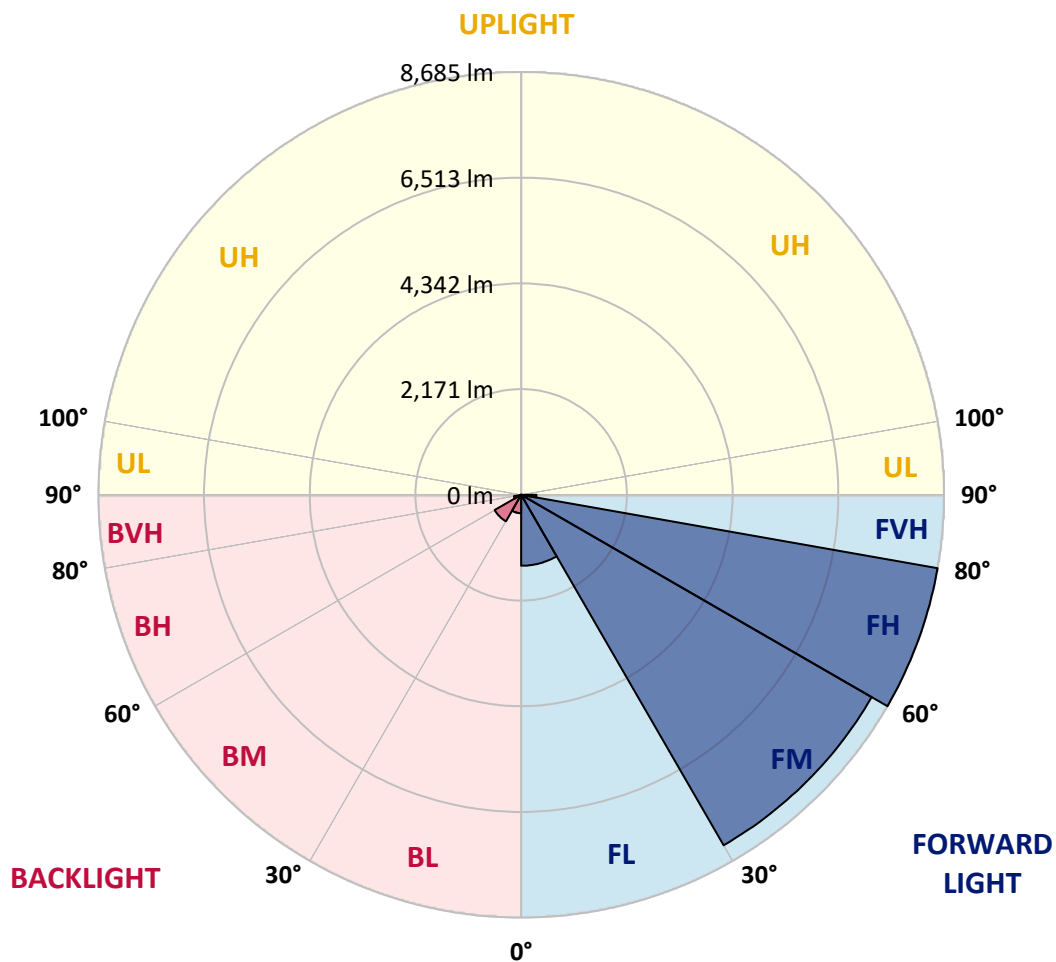
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1457.8	7.3			
FM	(30°-60°)	8311.8	41.7			
FH	(60°-80°)	8684.6	43.6			G4/12000
FVH	(80°-90°)	314.7	1.6			G3/500
BL	(0°-30°)	377.8	1.9	B1/500		
BM	(30°-60°)	626.9	3.1	B1/1000		
BH	(60°-80°)	151.4	0.8	B1/500		G1/500
BVH	(80°-90°)	10.2	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G4

Type IV Short





REPORT NUMBER: P191212

CATALOG NUMBER: GAN-AF-04-LED-U-SL4-HSS-ADJ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	2978.4	2978.4	2978.4	2978.4	2978.4	2978.4	2978.4	2978.4	2978.4	2978.4	2978.4
2.5°	3270.4	3252.6	3241.8	3227.6	3209.8	3194.4	3188.4	3144.6	3103.0	3046.0	2980.8
5°	3330.8	3324.9	3306.0	3286.9	3265.6	3241.8	3228.8	3176.6	3117.2	3034.2	2920.3
7.5°	3336.8	3329.7	3306.0	3279.8	3250.1	3221.7	3199.2	3146.9	3092.4	3008.1	2869.3
10°	3327.2	3319.0	3301.2	3272.7	3235.9	3208.6	3186.1	3136.3	3089.9	3014.0	2859.8
12.5°	3316.6	3308.3	3300.0	3285.7	3253.7	3234.8	3215.7	3168.3	3126.8	3062.7	2894.1
15°	3327.2	3322.5	3332.1	3326.1	3308.3	3291.7	3272.7	3230.0	3192.0	3138.6	2957.0
17.5°	3372.4	3372.4	3402.0	3405.6	3389.0	3365.3	3338.0	3295.2	3263.2	3218.1	3031.8
20°	3478.0	3474.5	3512.4	3519.6	3479.2	3442.4	3402.0	3349.9	3324.9	3296.5	3105.4
22.5°	3659.5	3642.9	3665.4	3658.4	3578.9	3521.9	3472.1	3408.0	3395.0	3381.9	3187.3
25°	3895.7	3886.2	3901.6	3831.6	3691.6	3614.5	3555.2	3482.7	3482.7	3495.8	3279.8
27.5°	4238.6	4203.0	4150.8	4027.5	3817.3	3718.8	3654.8	3577.7	3597.8	3646.5	3402.0
30°	4589.9	4550.7	4430.9	4241.1	3970.5	3867.2	3792.5	3711.8	3759.2	3848.2	3565.8
32.5°	4936.4	4892.5	4722.8	4483.1	4190.0	4086.8	4014.4	3925.4	4004.9	4154.4	3805.5
35°	5272.2	5233.0	5037.2	4754.8	4481.9	4396.4	4330.0	4252.9	4354.9	4563.8	4143.7
37.5°	5649.6	5606.8	5368.3	5062.2	4836.7	4775.0	4726.3	4649.2	4827.2	5133.4	4614.8
40°	6113.5	6041.1	5719.5	5414.6	5247.2	5217.6	5184.4	5173.7	5450.2	5873.8	5242.5
42.5°	6645.1	6526.4	6087.4	5786.0	5698.1	5719.5	5711.2	5758.7	6229.8	6794.6	6006.7
45°	7176.7	7023.7	6496.8	6182.3	6194.2	6268.9	6315.2	6505.0	7206.4	7850.7	6829.0
47.5°	7627.6	7477.0	6889.6	6610.7	6753.1	6900.2	7026.0	7385.6	8210.3	8890.2	7468.7
50°	8013.3	7870.9	7306.0	7081.8	7402.2	7639.5	7843.6	8376.4	9290.1	9681.7	7917.1
52.5°	8329.0	8234.0	7738.0	7621.7	8143.8	8491.5	8790.5	9428.9	10246.5	10324.8	8266.1
55°	8636.3	8568.6	8201.9	8263.7	9014.8	9488.3	9866.8	10545.5	11070.1	10861.2	8600.7
57.5°	8989.9	8928.2	8731.2	9077.7	10159.8	10755.6	11168.5	11535.2	11795.0	11409.4	8916.3
60°	9350.6	9315.0	9319.8	9981.9	11474.6	12046.6	12274.5	12369.4	12507.0	11925.6	8934.1
62.5°	9694.7	9762.3	9992.6	10988.1	12733.7	13172.7	13287.8	13381.6	13220.2	12007.5	8254.2
65°	10277.4	10387.8	10937.1	12334.9	14118.5	14588.4	14707.1	14385.5	13332.9	10948.9	6713.9
67.5°	10562.2	10763.9	11744.0	13590.4	15461.7	15983.8	15939.9	14450.7	11964.7	8349.1	4308.7
69°	10502.8	10717.6	11930.4	13974.9	15907.9	16381.3	16102.5	13652.1	10193.1	6048.2	2644.9
70°	10267.9	10485.0	11834.2	13960.6	15964.9	16339.8	15801.1	12666.1	8618.5	4422.5	1654.1
72.5°	8574.6	8762.1	10506.4	12618.6	14707.1	14402.1	13219.0	8775.1	4199.5	1204.4	372.6
75°	5278.1	5382.6	7538.6	9506.1	11108.0	10324.8	8807.1	4365.6	1251.9	340.5	206.4
77.5°	2788.6	2836.0	4127.1	5603.2	7041.5	5826.3	4514.0	1702.8	576.7	213.6	149.6
80°	1648.2	1683.8	2222.6	2561.9	3047.3	2545.3	1804.9	1045.5	413.0	134.1	132.9
82.5°	943.4	965.9	1611.5	1423.9	1200.8	1025.2	898.3	990.8	248.0	90.2	137.7
85°	346.5	351.3	906.5	1083.4	714.3	424.8	446.2	821.1	66.5	57.0	108.0
87.5°	161.4	157.8	466.4	663.3	417.7	269.3	347.7	180.3	26.1	36.8	29.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P191212

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2978.4	2978.4	2978.4	2978.4	2978.4	2978.4	2978.4	2978.4	2978.4	2978.4	2978.4
2.5°	2942.8	2898.9	2819.5	2737.5	2654.5	2590.4	2527.5	2477.7	2461.0	2430.2	2432.6
5°	2852.6	2772.0	2605.9	2437.3	2261.7	2116.9	1980.4	1870.2	1816.8	1762.1	1762.1
7.5°	2774.3	2656.8	2397.0	2122.8	1839.3	1600.7	1386.0	1224.6	1135.6	1064.4	1063.3
10°	2744.7	2585.6	2222.6	1829.8	1434.6	1109.5	854.4	690.6	606.4	551.8	549.4
12.5°	2757.7	2560.8	2088.5	1559.2	1063.3	713.2	494.8	389.2	353.6	337.0	337.0
15°	2795.7	2553.6	1954.3	1294.6	751.2	446.2	328.7	300.2	297.9	297.9	297.9
17.5°	2842.0	2555.9	1816.8	1037.1	511.5	319.2	283.6	280.1	282.4	282.4	282.4
20°	2889.4	2557.2	1668.4	798.6	360.7	277.6	267.0	265.8	268.2	268.2	269.3
22.5°	2947.5	2563.1	1520.1	596.9	297.9	262.3	253.9	253.9	255.1	255.1	253.9
25°	3014.0	2575.0	1365.8	442.6	271.7	251.5	244.5	243.3	244.5	243.3	242.0
27.5°	3097.1	2591.5	1193.8	346.5	259.8	240.9	235.0	235.0	233.7	232.6	231.4
30°	3201.5	2610.6	1000.3	294.3	248.0	231.4	225.5	224.2	223.1	220.8	220.8
32.5°	3360.5	2652.1	809.3	267.0	235.0	218.3	213.6	213.6	211.2	208.9	207.7
35°	3605.0	2733.9	638.4	250.4	220.8	204.1	198.1	198.1	195.8	194.6	193.4
37.5°	3943.2	2858.5	496.0	235.0	206.4	188.6	182.7	181.6	179.2	176.8	175.6
40°	4392.9	3012.8	390.4	220.8	192.2	173.3	168.5	166.1	161.4	157.8	157.8
42.5°	4957.7	3188.4	316.8	205.3	175.6	159.0	155.5	151.9	143.6	140.0	138.8
45°	5548.7	3346.3	268.2	187.5	159.0	144.7	142.4	136.5	125.8	122.2	122.2
47.5°	5974.6	3383.1	236.1	170.8	143.6	129.3	128.2	117.4	108.0	105.6	104.4
50°	6240.5	3310.7	210.0	154.3	129.3	115.1	111.5	98.5	92.6	90.2	89.0
52.5°	6419.6	3181.4	188.6	140.0	116.3	102.1	93.7	84.3	79.5	77.1	77.1
55°	6563.3	2998.6	167.4	126.9	105.6	91.3	79.5	72.4	67.6	65.3	65.3
57.5°	6603.6	2750.6	146.0	116.3	94.9	80.7	67.6	62.9	57.0	55.8	55.8
60°	6310.5	2303.3	129.3	103.2	85.4	70.0	59.3	53.4	47.5	46.2	45.1
62.5°	5537.9	1782.3	114.0	91.3	74.8	60.6	51.0	43.9	39.2	39.2	39.2
65°	4224.4	1194.9	99.6	79.5	65.3	51.0	43.9	35.6	33.2	33.2	34.4
67.5°	2528.7	650.3	85.4	67.6	55.8	42.8	36.8	30.9	29.7	30.9	30.9
69°	1482.1	382.1	77.1	60.6	48.7	38.0	32.0	27.3	29.7	30.9	30.9
70°	914.9	257.5	71.2	54.6	43.9	34.4	29.7	26.1	28.4	29.7	29.7
72.5°	255.1	132.9	57.0	42.8	35.6	28.4	23.7	23.7	27.3	28.4	28.4
75°	166.1	98.5	43.9	32.0	27.3	22.5	20.2	22.5	26.1	27.3	27.3
77.5°	137.7	80.7	35.6	26.1	22.5	21.4	19.0	20.2	23.7	25.0	25.0
80°	125.8	57.0	28.4	23.7	20.2	19.0	17.8	16.6	21.4	22.5	22.5
82.5°	119.9	45.1	25.0	21.4	19.0	16.6	15.4	16.6	19.0	20.2	21.4
85°	74.8	29.7	22.5	20.2	16.6	15.4	15.4	15.4	17.8	19.0	19.0
87.5°	27.3	23.7	20.2	16.6	14.2	14.2	14.2	14.2	15.4	17.8	17.8
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)