

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: P321687

Luminaire Tested: **GAN-SA3C-760-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321687
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA3C-760-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16607 lumens
Efficiency: N/A
Efficacy: 100.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

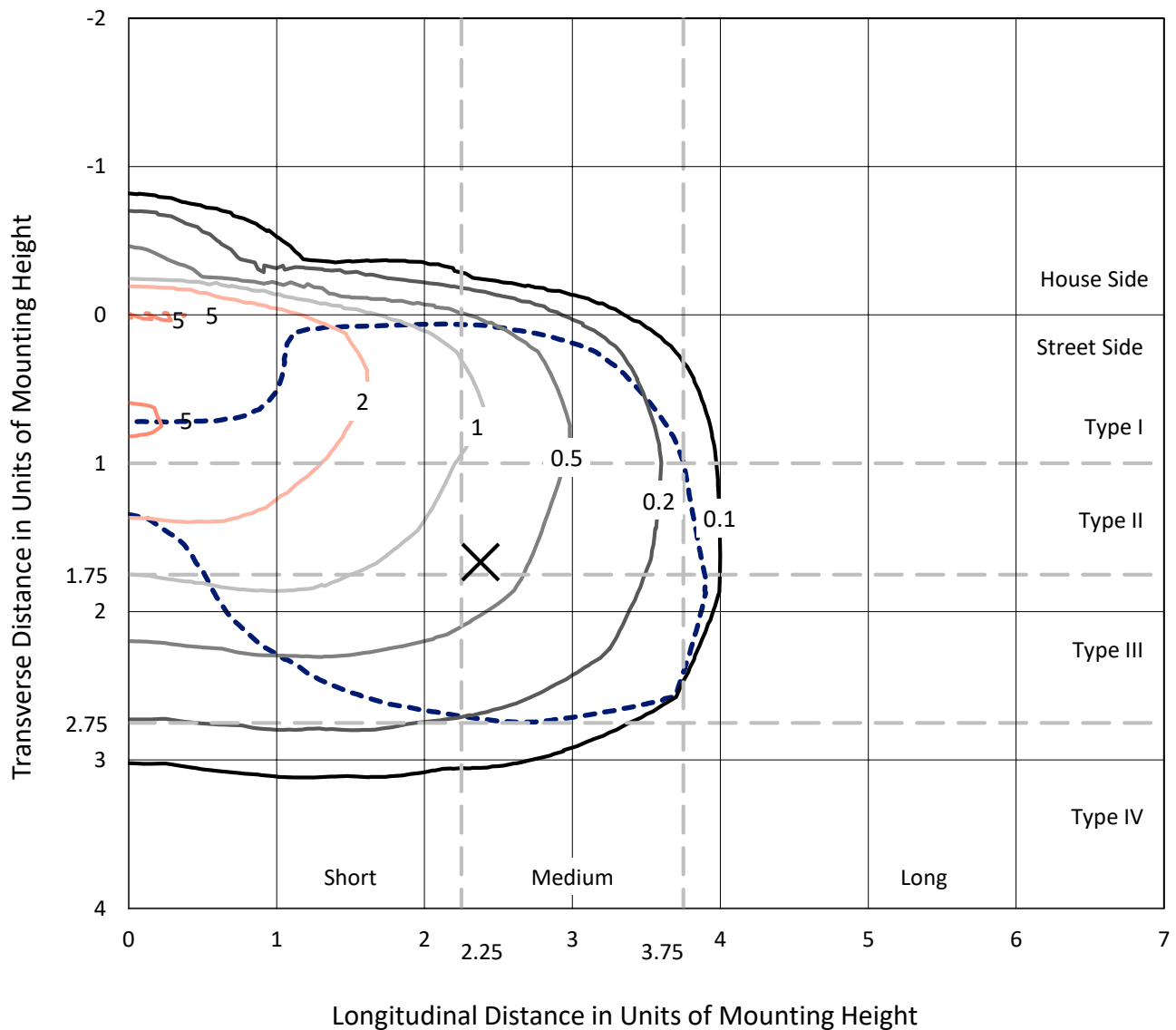
Input Watts (W): 166
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

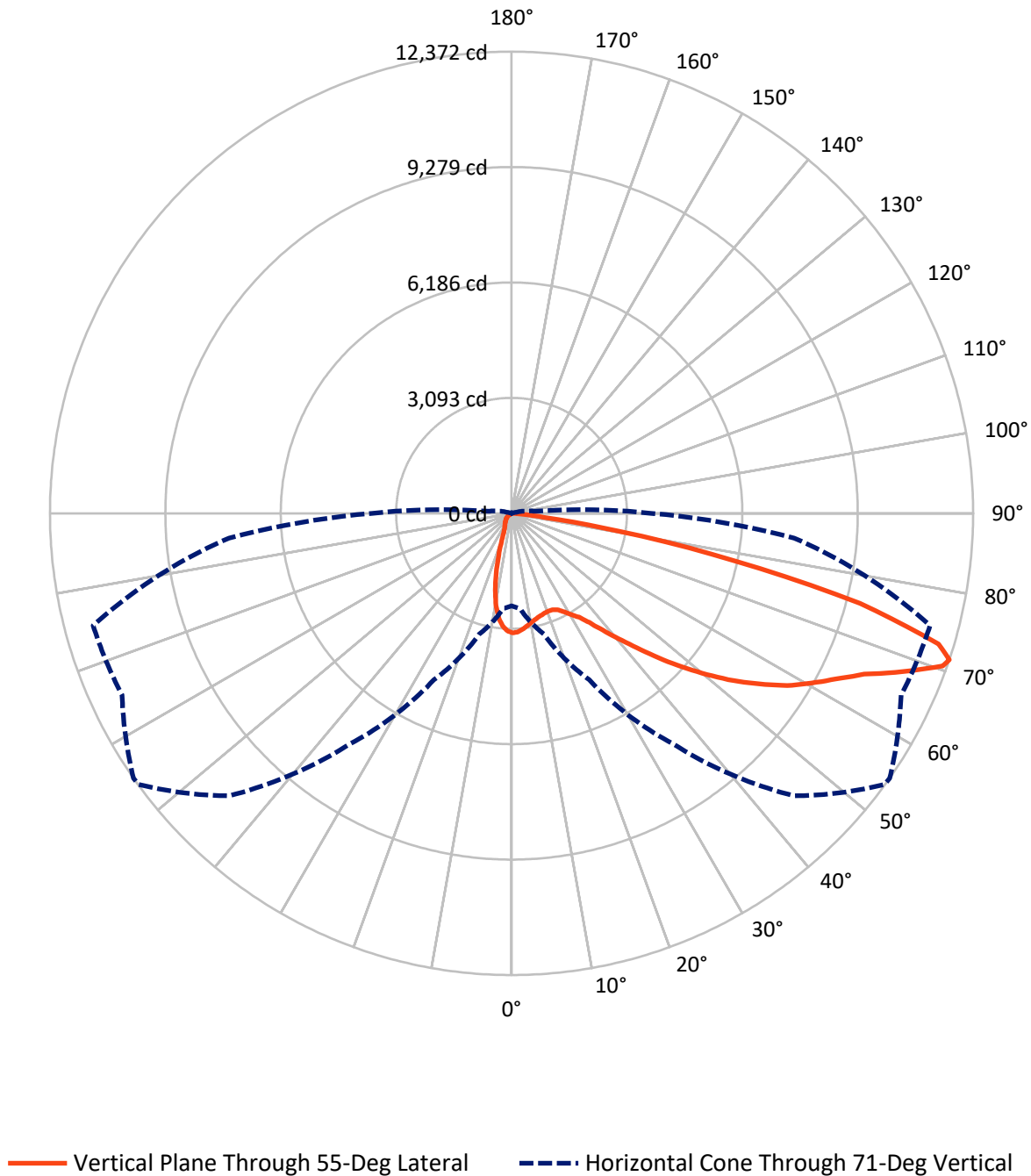
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1314.8	0.0	1314.8
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	15292.2	0.0	15292.2
	% Fixture	92.1	0.0	92.1
Total	Lumens	16607.0	0.0	16607.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	273.1	1.6
10°-20°	616.5	3.7
20°-30°	990.7	6.0
30°-40°	1683.3	10.1
40°-50°	2612.7	15.7
50°-60°	3512.6	21.2
60°-70°	4297.1	25.9
70°-80°	2512.4	15.1
80°-90°	108.6	0.7
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°	16607.0	100.0
0°-180°	16607.0	100.0

Coefficient of Utilization



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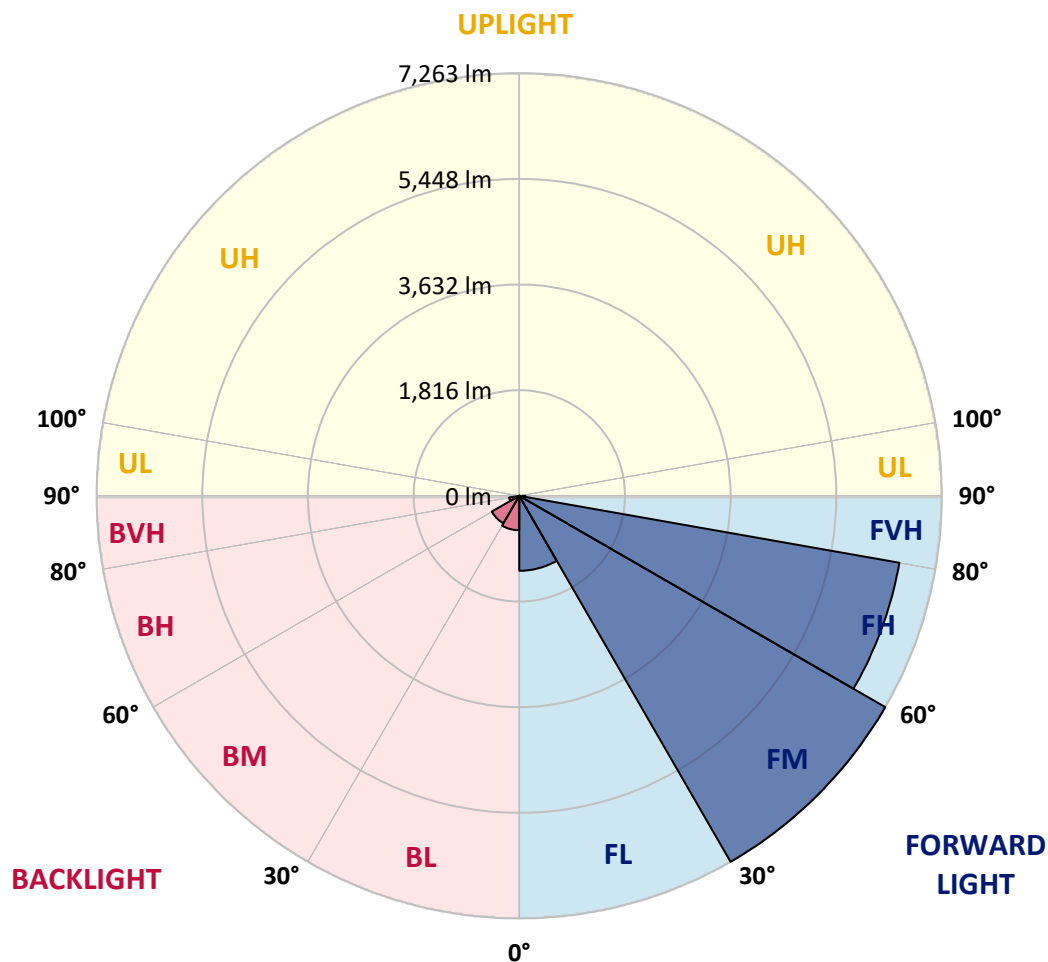
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1288.5	7.8			
FM	(30°-60°)	7263.4	43.7			
FH	(60°-80°)	6633.4	39.9			G3/7500
FVH	(80°-90°)	106.9	0.6			G2/225
BL	(0°-30°)	591.8	3.6	B2/1000		
BM	(30°-60°)	545.1	3.3	B1/1000		
BH	(60°-80°)	176.2	1.1	B1/500		G1/500
BVH	(80°-90°)	1.7	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-G3

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	3202.7	3202.7	3202.7	3202.7	3202.7	3202.7	3202.7	3202.7	3202.7	3202.7	3202.7
2.5°	3108.8	3112.5	3125.9	3131.9	3146.0	3169.9	3181.8	3182.6	3202.0	3209.4	3215.4
5°	2888.8	2911.2	2933.5	2957.4	3000.6	3058.1	3114.7	3119.9	3182.6	3228.8	3253.4
7.5°	2699.4	2719.5	2746.4	2784.4	2845.5	2935.8	3030.5	3041.7	3160.2	3265.4	3320.5
10°	2504.8	2521.2	2559.9	2615.9	2700.1	2820.9	2948.4	2967.1	3140.1	3314.6	3411.5
12.5°	2296.7	2306.4	2353.4	2433.9	2557.7	2711.3	2879.1	2903.7	3127.4	3371.2	3518.9
15°	2138.6	2143.1	2187.8	2271.4	2413.0	2612.9	2825.4	2855.2	3130.4	3439.1	3636.0
17.5°	2098.4	2100.6	2124.5	2181.9	2307.2	2524.9	2782.9	2819.4	3139.3	3505.5	3753.8
20°	2261.7	2246.0	2221.4	2212.4	2266.1	2471.9	2757.5	2798.6	3151.3	3564.4	3859.7
22.5°	2709.8	2663.6	2561.4	2425.0	2342.2	2475.7	2764.3	2805.3	3189.3	3636.7	3982.0
25°	3375.0	3310.8	3137.1	2868.7	2610.6	2583.1	2820.2	2861.9	3263.1	3723.2	4099.0
27.5°	4131.8	4068.5	3855.9	3472.7	3032.7	2795.6	2948.4	2987.2	3372.7	3800.0	4188.5
30°	4856.7	4838.8	4588.2	4152.7	3563.6	3140.1	3114.0	3146.8	3454.0	3846.2	4259.4
32.5°	5471.1	5442.8	5241.4	4817.9	4171.4	3553.9	3308.6	3318.3	3515.2	3905.9	4351.8
35°	6040.8	6005.8	5829.0	5428.6	4794.8	4059.5	3608.4	3594.2	3648.6	4026.0	4486.0
37.5°	6538.2	6570.2	6374.1	5993.1	5354.0	4585.2	4012.5	3970.0	3857.4	4221.3	4680.7
40°	6954.3	6954.3	6852.1	6534.4	5958.0	5128.8	4469.6	4413.7	4171.4	4522.6	4927.5
42.5°	7104.1	7136.2	7174.2	6994.5	6498.6	5694.1	4978.9	4920.8	4613.6	4949.9	5239.2
45°	7113.1	7163.8	7358.4	7357.7	6987.1	6255.6	5553.1	5525.5	5180.3	5498.7	5625.5
47.5°	6987.1	7050.5	7371.1	7553.0	7374.1	6778.3	6181.0	6146.7	5846.2	6171.3	6029.6
50°	6792.4	6862.5	7235.4	7629.9	7637.3	7233.2	6842.4	6791.0	6579.2	6940.1	6447.2
52.5°	6444.2	6579.9	7113.8	7647.8	7810.3	7626.1	7471.8	7449.4	7399.4	7680.6	6779.8
55°	5699.3	5849.9	6808.9	7653.7	7970.6	7974.4	8061.6	8067.6	8168.2	8372.6	7027.3
57.5°	5347.3	5432.3	6276.4	7682.1	8208.5	8369.6	8662.6	8708.9	8864.7	9029.5	7310.0
60°	5125.8	5226.5	6014.0	7643.3	8582.1	8887.8	9219.7	9235.3	9402.3	9707.3	7692.5
62.5°	4949.1	5048.3	5848.4	7494.1	9001.9	9511.2	9764.0	9765.5	9890.8	10514.9	8127.2
65°	4512.9	4596.4	5513.6	7326.4	9279.3	10127.9	10396.3	10386.7	10488.8	11366.5	8632.1
67.5°	3882.0	3946.2	4829.8	6690.3	9174.9	10688.7	11350.8	11318.8	11195.0	12102.5	8830.4
70°	3001.4	3024.5	3806.7	5575.5	8196.6	10904.2	12273.2	12256.8	11628.2	11970.5	8103.4
71°	2480.9	2557.0	3354.8	4920.8	7541.1	10705.1	12362.7	12372.4	11519.4	11611.1	7603.0
72.5°	1440.7	1505.5	2431.7	3779.1	6402.5	9874.4	11898.9	11969.0	11010.8	10561.1	6494.2
75°	308.7	330.3	901.5	1829.2	3521.9	6920.7	9391.9	9641.7	8974.3	7184.7	3914.1
77.5°	214.8	231.9	386.3	829.9	1164.0	3419.7	5834.2	6116.1	5361.5	2700.1	1252.8
80°	170.0	189.4	301.3	410.1	314.7	1102.9	2732.9	2905.2	1788.2	602.5	211.0
82.5°	94.7	112.6	234.9	221.5	120.8	209.5	765.1	865.0	357.9	121.5	50.0
85°	27.6	33.6	151.4	161.1	51.5	40.3	130.5	161.8	67.9	32.1	22.4
87.5°	0.0	0.0	73.1	61.9	14.9	6.0	11.9	13.4	13.4	13.4	14.9
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°	3202.7	3202.7	3202.7	3202.7	3202.7	3202.7	3202.7	3202.7	3202.7	3202.7	3202.7
2.5°	3215.4	3220.6	3202.0	3177.4	3151.3	3119.2	3085.6	3059.5	3058.8	3046.1	3033.4
5°	3254.9	3251.9	3200.5	3122.2	3029.7	2933.5	2841.8	2738.2	2703.9	2661.4	2647.2
7.5°	3328.0	3307.1	3198.2	3026.7	2823.9	2622.6	2414.5	2205.0	2115.5	2035.0	2020.8
10°	3419.7	3380.2	3184.1	2883.6	2511.5	2140.1	1826.2	1541.3	1416.1	1319.9	1315.4
12.5°	3515.2	3454.8	3144.6	2667.3	2102.1	1580.1	1218.5	938.1	833.7	766.6	772.5
15°	3615.1	3524.9	3059.5	2375.8	1636.0	1072.3	748.7	583.9	542.1	525.0	529.4
17.5°	3717.2	3573.3	2941.0	2024.5	1175.9	692.0	518.3	472.0	472.0	475.7	477.2
20°	3806.0	3599.4	2766.5	1630.8	797.1	504.1	453.4	446.7	450.4	456.4	457.1
22.5°	3894.0	3600.9	2539.1	1231.9	557.8	441.4	431.8	428.8	431.0	437.7	438.5
25°	3965.6	3583.0	2254.2	876.2	445.2	416.1	411.6	410.1	411.6	419.8	419.8
27.5°	3994.6	3518.1	1906.7	615.9	398.9	387.8	386.3	387.8	390.0	396.0	396.7
30°	3997.6	3404.8	1527.9	445.9	361.7	349.7	352.7	357.9	355.7	354.2	355.7
32.5°	4005.1	3273.6	1158.8	366.9	330.3	311.7	308.0	308.0	299.0	293.8	290.8
35°	4029.7	3119.2	840.4	329.6	298.3	276.6	262.5	246.1	228.9	220.0	217.7
37.5°	4068.5	2957.4	601.8	305.0	269.9	245.3	218.5	189.4	164.8	158.1	158.1
40°	4139.3	2790.4	445.2	285.6	247.6	217.0	176.7	138.7	116.3	112.6	112.6
42.5°	4251.2	2614.4	354.9	268.4	228.2	187.9	135.0	100.7	84.3	82.0	81.3
45°	4367.5	2420.5	310.2	252.0	207.3	154.4	99.9	74.6	64.9	62.6	62.6
47.5°	4483.8	2213.9	288.6	236.4	187.2	120.1	74.6	58.9	54.4	54.4	55.2
50°	4582.2	1998.4	272.9	219.2	161.1	91.0	58.9	50.0	48.5	51.5	52.2
52.5°	4606.8	1786.7	253.5	197.6	129.0	69.3	48.5	44.0	44.0	44.0	44.0
55°	4591.9	1622.6	228.2	170.8	95.4	55.2	41.8	38.8	38.0	38.0	38.0
57.5°	4642.6	1525.7	182.7	132.7	68.6	44.7	36.5	34.3	32.8	32.1	32.1
60°	4744.8	1462.3	130.5	95.4	51.5	37.3	31.3	29.1	26.8	25.4	25.4
62.5°	4880.5	1407.1	96.9	70.8	39.5	29.8	26.1	23.9	20.9	19.4	19.4
65°	4984.9	1308.7	73.8	52.9	29.8	23.9	20.1	19.4	14.9	13.4	12.7
67.5°	4825.3	1092.4	59.7	38.8	22.4	18.6	15.7	14.9	8.9	7.5	7.5
70°	4138.6	760.6	47.7	28.3	16.4	14.9	12.7	9.7	6.7	6.0	6.0
71°	3753.0	635.3	43.2	23.9	14.2	14.2	11.9	8.2	6.0	5.2	5.2
72.5°	3117.7	451.1	36.5	18.6	12.7	14.9	12.7	7.5	6.0	5.2	4.5
75°	1809.8	188.7	25.4	12.7	9.7	17.9	16.4	6.7	4.5	3.7	3.7
77.5°	544.4	69.3	14.2	8.2	7.5	15.7	18.6	6.0	2.2	0.7	0.7
80°	99.2	29.8	8.9	5.2	5.2	9.7	14.2	3.0	0.0	0.0	0.0
82.5°	35.0	14.9	5.2	3.0	2.2	4.5	6.7	0.0	0.0	0.0	0.0
85°	20.1	10.4	3.0	1.5	0.0	0.7	1.5	0.0	0.0	0.0	0.0
87.5°	13.4	3.0	0.0	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)