

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: P322094

Luminaire Tested: **GAN-SA0C-830-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322094
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0C-830-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39576 lumens
Efficiency: N/A
Efficacy: 70.9 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G5

Input Watts (W): 558
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

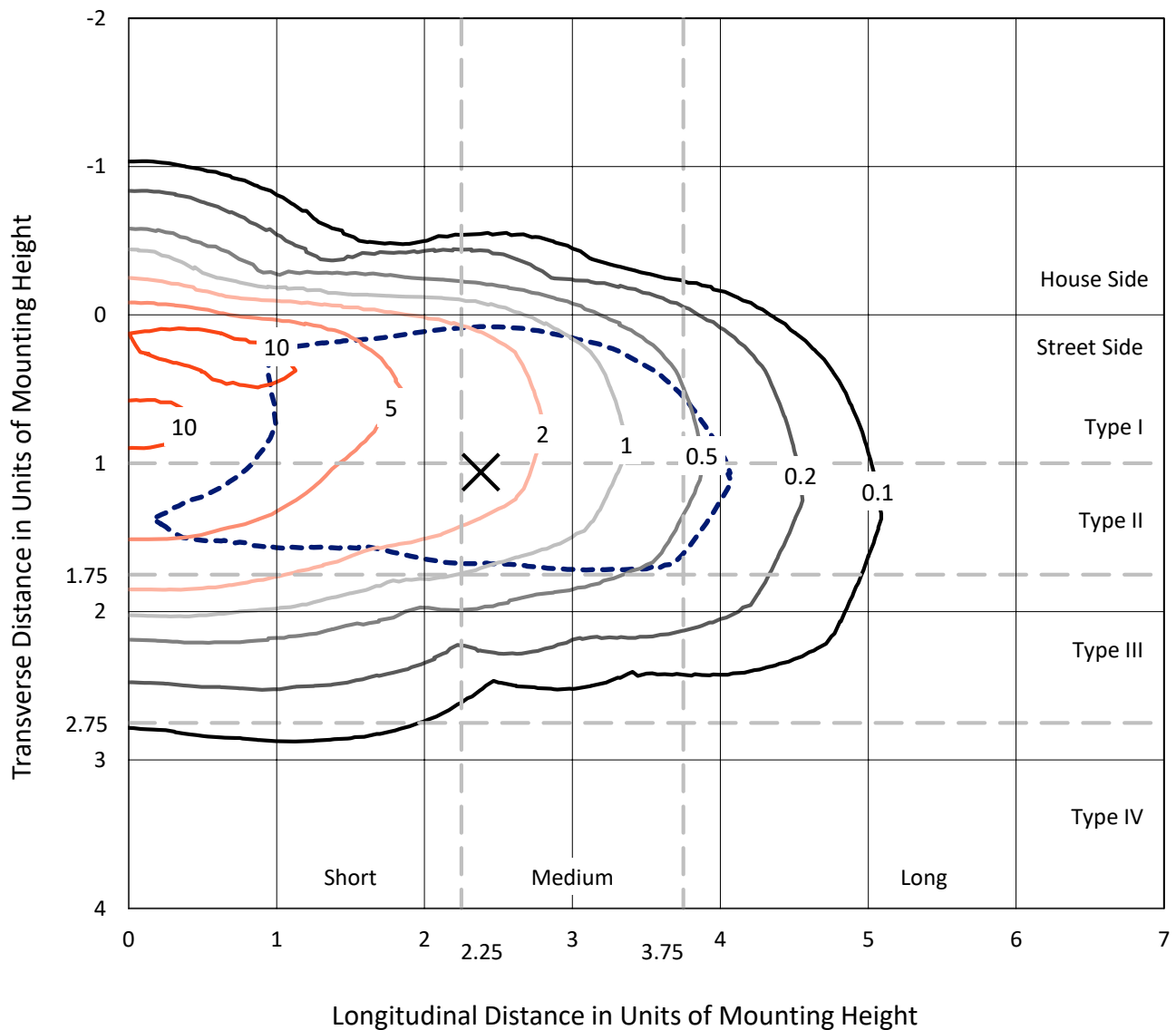


REPORT NUMBER: P322094

CATALOG NUMBER: GAN-SA0C-830-U-T2-HSS

Iso-Footcandle Lines of Horizontal Illumination

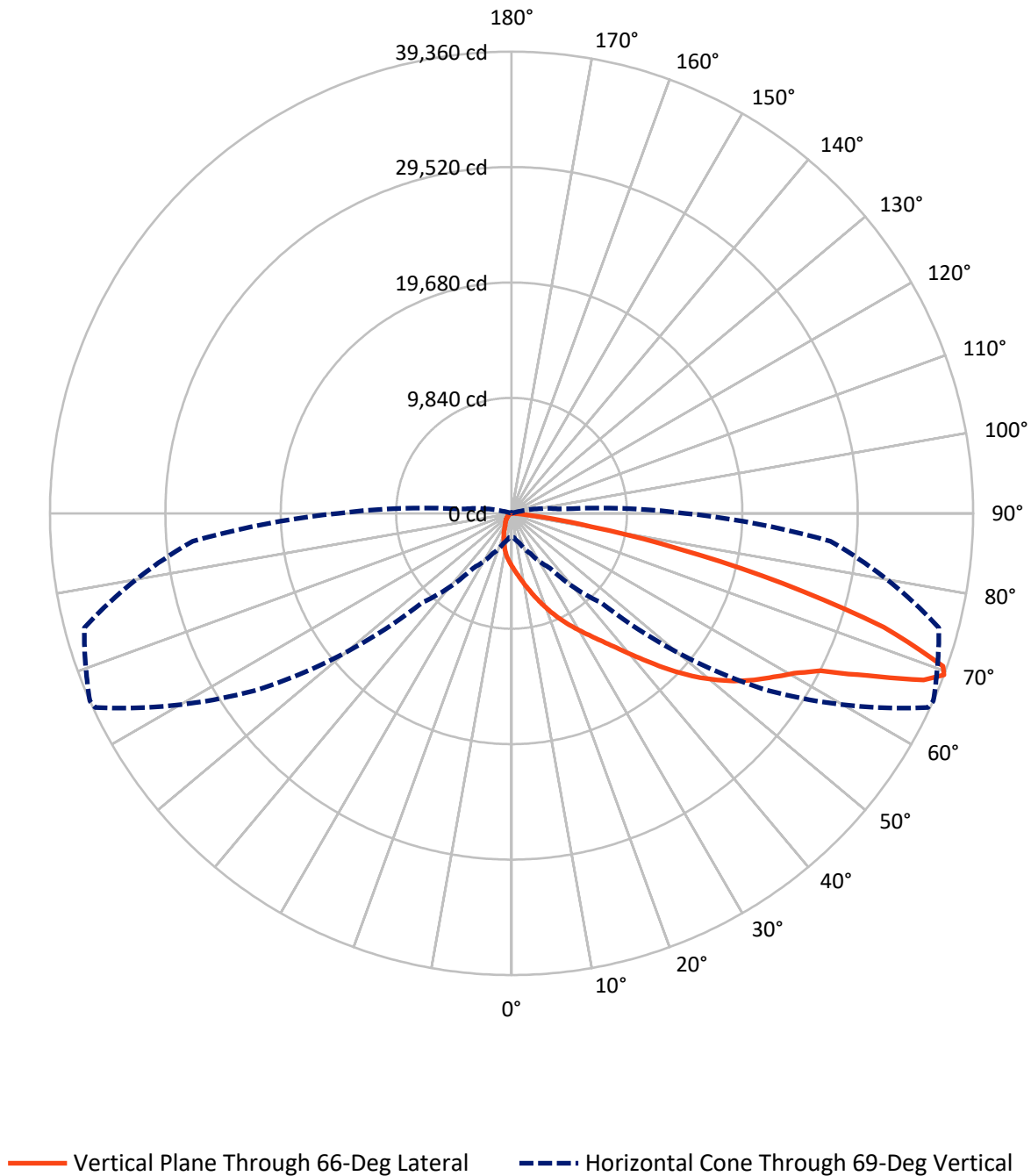
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.9 fc
 Type II - Medium - N/A

REPORT NUMBER: P322094
CATALOG NUMBER: GAN-SA0C-830-U-T2-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P322094

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2374.0	0.0	2374.0
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	37202.0	0.0	37202.0
	% Fixture	94.0	0.0	94.0
Total	Lumens	39576.0	0.0	39576.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	435.4	1.1
10°-20°	1295.7	3.3
20°-30°	2256.3	5.7
30°-40°	3958.7	10.0
40°-50°	6626.2	16.7
50°-60°	9739.9	24.6
60°-70°	10000.4	25.3
70°-80°	4936.9	12.5
80°-90°	326.4	0.8
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°	39576.0	100.0
0°-180°	39576.0	100.0

Coefficient of Utilization



REPORT NUMBER: P322094

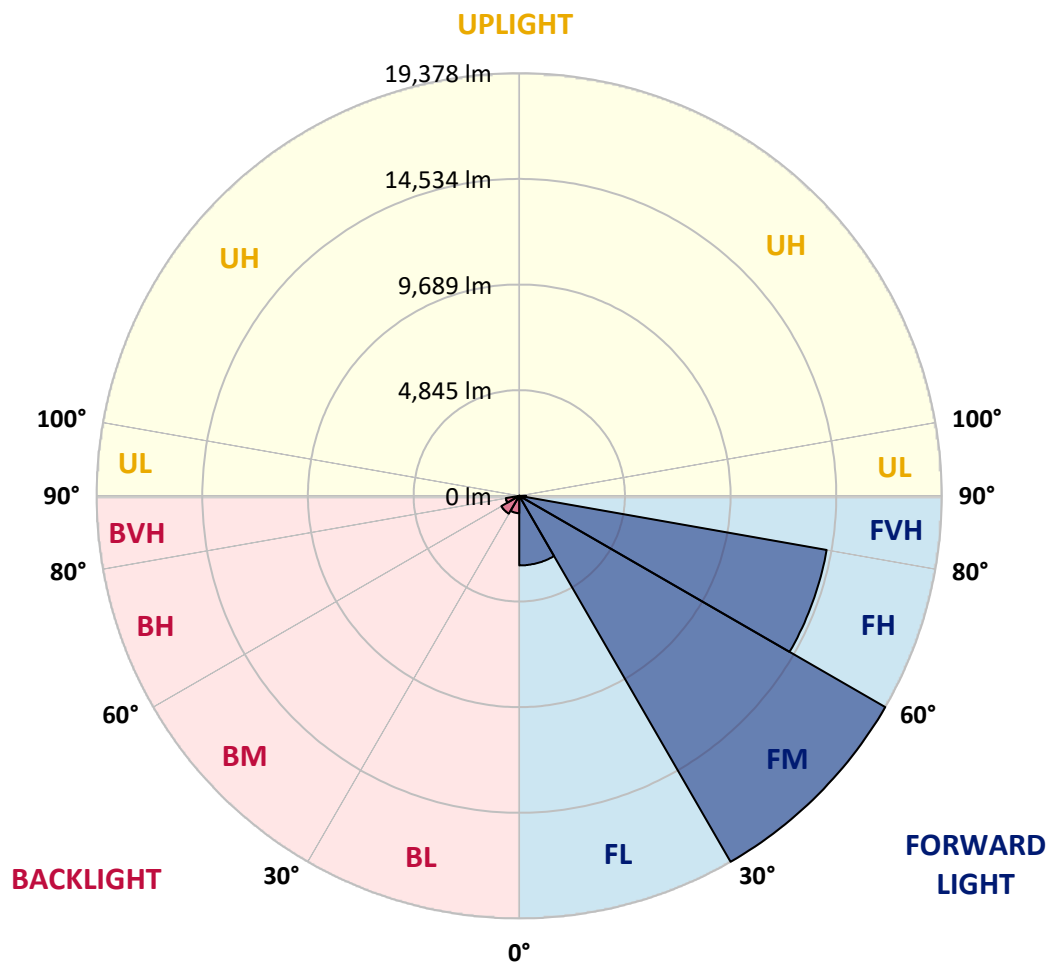
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3193.4	8.1			
FM	(30°-60°)	19378.3	49.0			
FH	(60°-80°)	14311.7	36.2			G5
FVH	(80°-90°)	318.5	0.8			G3/500
BL	(0°-30°)	794.0	2.0	B2/1000		
BM	(30°-60°)	946.5	2.4	B1/1000		
BH	(60°-80°)	625.6	1.6	B2/1000		G2/1000
BVH	(80°-90°)	7.9	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-G5

Type II Medium





REPORT NUMBER: P322094

CATALOG NUMBER: GAN-SA0C-830-U-T2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	4503.9	4503.9	4503.9	4503.9	4503.9	4503.9	4503.9	4503.9	4503.9	4503.9	4503.9
2.5°	5300.9	5278.3	5268.9	5227.6	5156.1	5101.6	4996.4	4874.2	4851.6	4733.2	4588.5
5°	5988.9	5970.1	5956.9	5898.6	5825.3	5688.1	5496.4	5268.9	5225.7	5000.1	4710.6
7.5°	6468.2	6502.0	6502.0	6464.5	6372.3	6269.0	6034.0	5723.8	5669.3	5323.4	4874.2
10°	6748.3	6789.6	6821.6	6853.6	6840.4	6799.0	6577.2	6227.6	6161.8	5703.2	5064.0
12.5°	6774.6	6816.0	6906.2	7039.7	7169.4	7263.3	7124.2	6785.9	6710.7	6143.0	5289.6
15°	6628.0	6671.2	6810.3	7069.7	7383.6	7658.1	7703.2	7404.3	7327.3	6667.5	5571.6
17.5°	6372.3	6400.5	6599.8	6958.8	7451.3	7955.1	8227.7	8067.9	7996.4	7267.1	5885.5
20°	6182.5	6203.2	6378.0	6763.3	7410.0	8141.2	8723.9	8772.8	8697.6	7910.0	6225.7
22.5°	6507.7	6545.3	6550.9	6733.3	7297.2	8233.3	9160.0	9466.4	9410.0	8592.3	6560.3
25°	7396.8	7440.0	7297.2	7184.4	7393.0	8274.7	9534.1	10177.0	10131.8	9327.3	6896.8
27.5°	8571.7	8616.8	8432.5	8096.1	7894.9	8430.7	9866.8	10898.8	10896.9	10105.5	7259.6
30°	9725.8	9770.9	9583.0	9246.5	8784.1	8872.4	10154.4	11654.4	11665.7	10908.2	7644.9
32.5°	10936.4	10992.8	10799.2	10366.8	9883.7	9635.6	10558.5	12413.9	12477.8	11838.7	8079.2
35°	12312.3	12319.9	12047.3	11594.3	11037.9	10656.3	11207.1	13265.4	13417.6	12990.9	8629.9
37.5°	13662.0	13716.5	13492.8	12778.5	12267.2	11834.9	12171.4	14329.3	14545.5	14398.9	9349.9
40°	14662.0	14776.7	14744.7	13974.0	13489.1	13180.8	13368.8	15594.4	15868.8	16038.0	10257.8
42.5°	15289.9	15376.3	15523.0	15058.7	14618.8	14669.6	14782.3	17068.1	17406.5	17906.5	11301.0
45°	16009.8	16051.2	16173.4	15968.5	15671.5	16182.7	16282.4	18727.9	19083.2	19915.9	12459.0
47.5°	16889.5	16987.3	17021.1	16833.1	16697.8	17521.1	17727.9	20237.4	20735.5	22068.2	13684.6
50°	18009.9	18036.2	18094.5	17972.3	17836.9	18671.5	19024.9	21822.0	22275.0	24228.1	14893.2
52.5°	19105.8	19199.7	19402.8	19325.7	19271.2	19650.9	20181.0	23250.6	23756.3	26028.9	16100.0
55°	19421.6	19502.4	20203.5	20682.9	21126.5	20857.7	21286.3	24530.7	25077.7	27637.9	17261.7
57.5°	18160.2	18323.8	19538.1	20786.3	22626.5	22733.7	22805.1	25844.7	26335.3	28871.0	18470.4
60°	14972.2	15004.1	16996.7	19137.7	22378.4	24370.9	25023.2	27256.3	27668.0	30019.6	19917.8
62.5°	9522.8	9848.0	12034.1	15056.8	19754.3	24134.1	27705.6	29391.7	29542.1	31397.4	21993.0
65°	4535.8	4746.4	6321.6	9302.9	14308.6	21102.0	29557.2	33254.6	33322.3	34128.7	24765.7
67.5°	2511.3	2612.8	3362.9	5007.6	8364.9	14923.3	28809.0	37829.9	37893.8	36918.2	27198.1
69°	1964.3	2050.8	2641.0	3774.5	5671.2	10725.8	26070.2	39170.2	39360.0	37717.1	27284.5
70°	1667.3	1751.9	2274.5	3188.1	4560.3	8287.8	23205.5	38837.5	39038.6	37642.0	26639.8
72.5°	1020.7	1069.6	1515.1	2244.4	3056.5	4169.3	14310.5	32844.8	33185.1	34529.1	22895.3
75°	688.0	714.3	947.4	1548.9	2186.1	2146.7	7434.4	23151.0	23887.8	26859.7	16910.2
77.5°	492.5	516.9	635.4	1001.9	1532.0	1417.3	3366.6	14387.6	14545.5	16109.4	9222.0
80°	280.1	302.6	449.3	595.9	1039.5	945.5	1338.4	6872.4	6951.3	6908.1	3079.0
82.5°	146.6	165.4	246.2	392.9	667.3	618.4	556.4	2300.8	2312.1	1923.0	674.8
85°	28.2	33.8	122.2	268.8	344.0	268.8	227.4	539.5	550.8	486.9	167.3
87.5°	0.0	1.9	48.9	60.2	67.7	69.6	73.3	105.3	112.8	152.3	45.1
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: P322094

CATALOG NUMBER: GAN-SA0C-830-U-T2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4503.9	4503.9	4503.9	4503.9	4503.9	4503.9	4503.9	4503.9	4503.9	4503.9	4503.9
2.5°	4524.6	4456.9	4327.2	4176.8	4060.3	3945.6	3855.4	3761.4	3727.5	3710.6	3708.7
5°	4569.7	4426.8	4152.4	3870.4	3639.2	3421.1	3265.1	3116.6	3047.1	3015.1	3002.0
7.5°	4644.9	4415.5	3973.8	3543.3	3210.6	2938.0	2721.9	2560.2	2479.4	2445.6	2432.4
10°	4733.2	4400.5	3765.1	3197.5	2772.6	2490.7	2276.4	2116.6	2028.2	1990.7	1971.9
12.5°	4836.6	4374.2	3524.5	2847.8	2398.6	2116.6	1857.2	1659.8	1558.3	1515.1	1494.4
15°	4964.4	4347.9	3272.6	2518.9	2069.6	1725.6	1441.8	1308.3	1287.6	1280.1	1282.0
17.5°	5090.4	4306.5	2998.2	2193.7	1723.7	1347.8	1203.0	1195.5	1199.3	1199.3	1199.3
20°	5203.1	4212.5	2699.3	1915.5	1394.8	1137.2	1107.2	1094.0	1084.6	1077.1	1067.7
22.5°	5291.5	4086.6	2411.7	1639.1	1139.1	1041.4	994.4	953.0	919.2	896.6	885.4
25°	5351.6	3919.3	2148.6	1374.1	1024.5	947.4	862.8	793.3	740.6	708.7	695.5
27.5°	5396.8	3738.8	1913.6	1150.4	945.5	838.4	727.5	644.8	590.2	562.0	550.8
30°	5428.7	3533.9	1706.8	1011.3	857.2	723.7	605.3	524.4	485.0	469.9	462.4
32.5°	5458.8	3306.5	1511.3	945.5	774.5	618.4	507.5	445.5	421.1	402.3	396.6
35°	5534.0	3095.9	1325.2	876.0	689.9	528.2	436.1	391.0	366.6	355.3	351.5
37.5°	5712.6	2939.9	1146.6	804.5	605.3	456.8	381.6	349.6	327.1	315.8	312.0
40°	6000.2	2861.0	996.3	727.5	522.6	402.3	345.9	315.8	291.4	274.4	270.7
42.5°	6423.1	2872.3	891.0	650.4	456.8	359.0	312.0	276.3	250.0	235.0	231.2
45°	6936.3	2955.0	817.7	575.2	402.3	325.2	274.4	236.8	212.4	199.3	195.5
47.5°	7492.7	3088.4	757.5	507.5	359.0	293.2	236.8	197.4	176.7	165.4	163.5
50°	8079.2	3218.1	695.5	441.7	321.4	261.3	199.3	163.5	146.6	137.2	133.5
52.5°	8673.2	3368.5	639.1	381.6	289.5	223.7	165.4	133.5	120.3	112.8	109.0
55°	9312.3	3481.3	584.6	334.6	257.5	189.9	137.2	110.9	99.6	90.2	88.3
57.5°	10064.2	3656.1	528.2	289.5	219.9	157.9	112.8	88.3	78.9	69.6	67.7
60°	11079.2	3861.0	468.1	255.6	180.5	129.7	92.1	71.4	60.2	52.6	50.8
62.5°	12417.6	4088.5	392.9	223.7	146.6	105.3	73.3	56.4	43.2	33.8	33.8
65°	14115.0	4458.8	321.4	188.0	120.3	86.5	56.4	41.4	24.4	15.0	15.0
67.5°	15105.7	4522.7	259.4	154.1	97.7	73.3	47.0	28.2	7.5	1.9	0.0
69°	14788.0	4152.4	219.9	131.6	84.6	69.6	43.2	20.7	3.8	0.0	0.0
70°	14190.2	3797.1	193.6	116.5	77.1	65.8	41.4	15.0	3.8	0.0	0.0
72.5°	11725.9	2703.1	146.6	86.5	56.4	58.3	37.6	9.4	3.8	0.0	0.0
75°	8541.6	1642.9	105.3	60.2	35.7	43.2	26.3	3.8	1.9	0.0	0.0
77.5°	4752.0	774.5	65.8	33.8	22.6	26.3	13.2	0.0	0.0	0.0	0.0
80°	1543.3	210.5	30.1	18.8	13.2	15.0	5.6	0.0	0.0	0.0	0.0
82.5°	285.7	60.2	16.9	9.4	3.8	3.8	0.0	0.0	0.0	0.0	0.0
85°	62.0	24.4	9.4	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	20.7	7.5	1.9	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)