

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: P323753

Luminaire Tested: **GAN-SA9A-727-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323753
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9A-727-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 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: 28277 lumens
Efficiency: N/A
Efficacy: 97.5 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

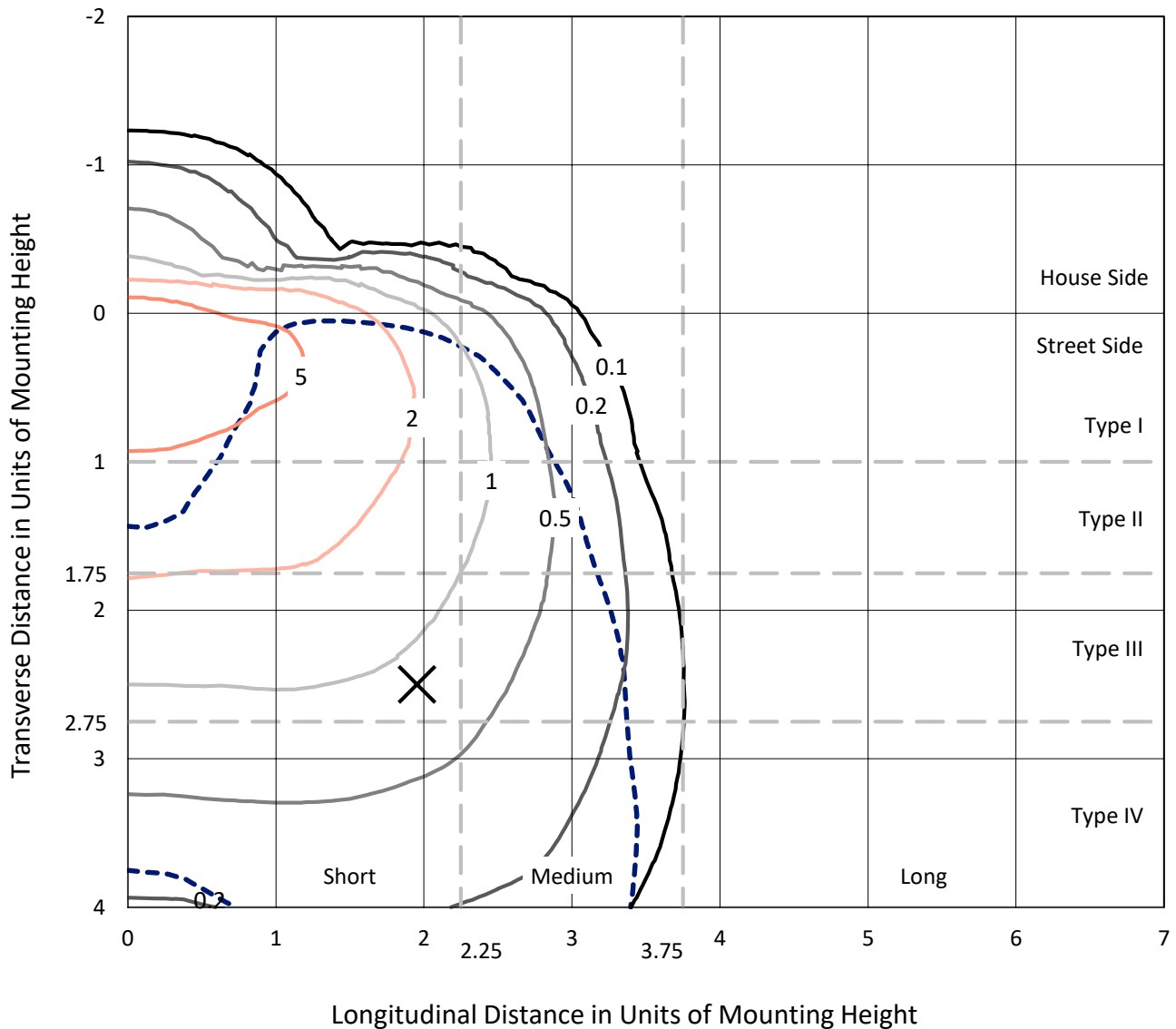
Input Watts (W): 290
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P323753
 CATALOG NUMBER: GAN-SA9A-727-U-SL4-HSS

Iso-Footcandle Lines of Horizontal Illumination

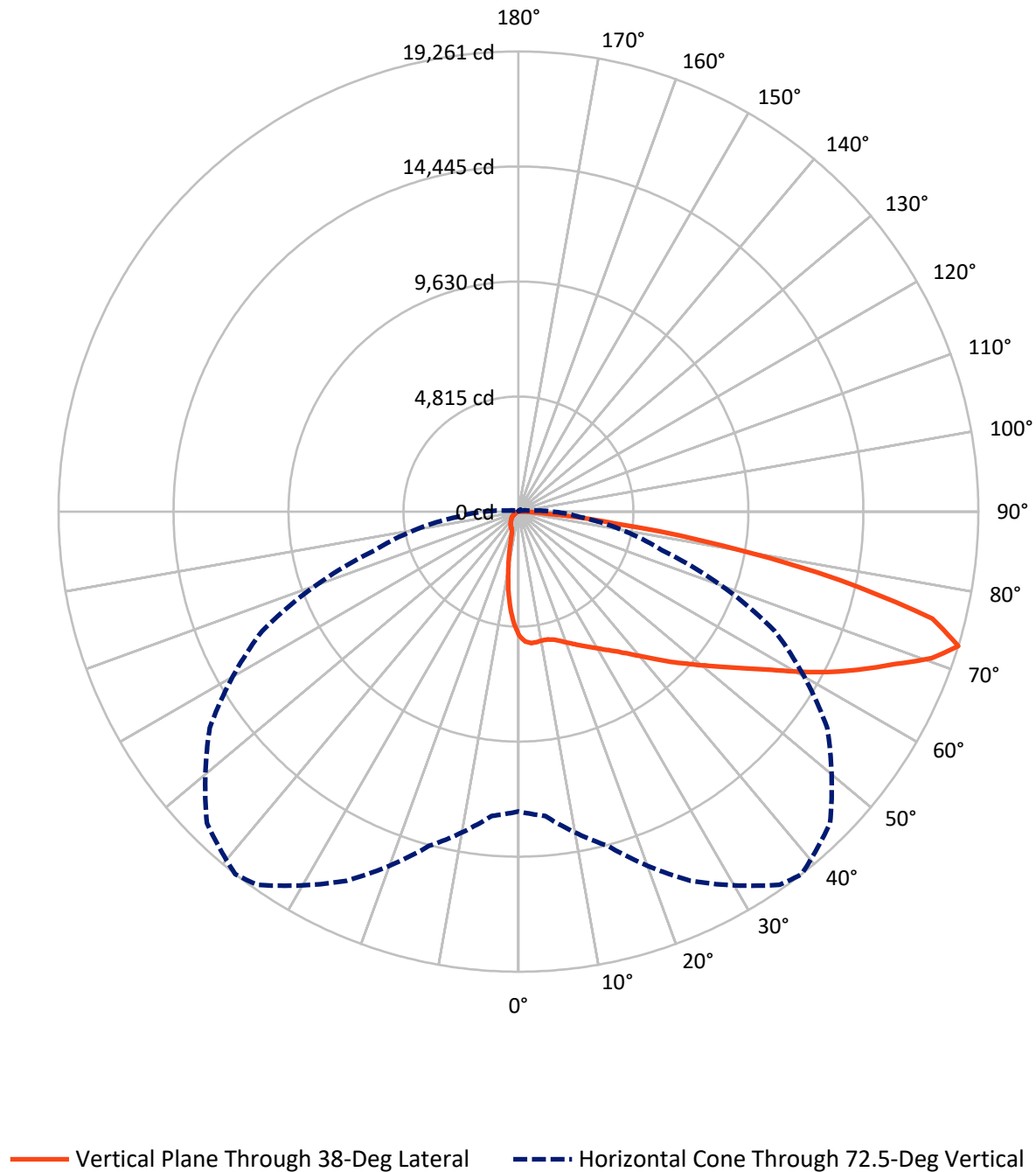
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 fc
 Type IV - Short - N/A

REPORT NUMBER: P323753
CATALOG NUMBER: GAN-SA9A-727-U-SL4-HSS

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2379.6	0.0	2379.6
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	25897.4	0.0	25897.4
	% Fixture	91.6	0.0	91.6
Total	Lumens	28277.0	0.0	28277.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	443.1	1.6
10°-20°	1083.6	3.8
20°-30°	1723.4	6.1
30°-40°	2591.0	9.2
40°-50°	3952.7	14.0
50°-60°	5586.5	19.8
60°-70°	7007.4	24.8
70°-80°	5239.5	18.5
80°-90°	649.7	2.3
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°	28277.0	100.0
0°-180°	28277.0	100.0

Coefficient of Utilization



REPORT NUMBER: P323753

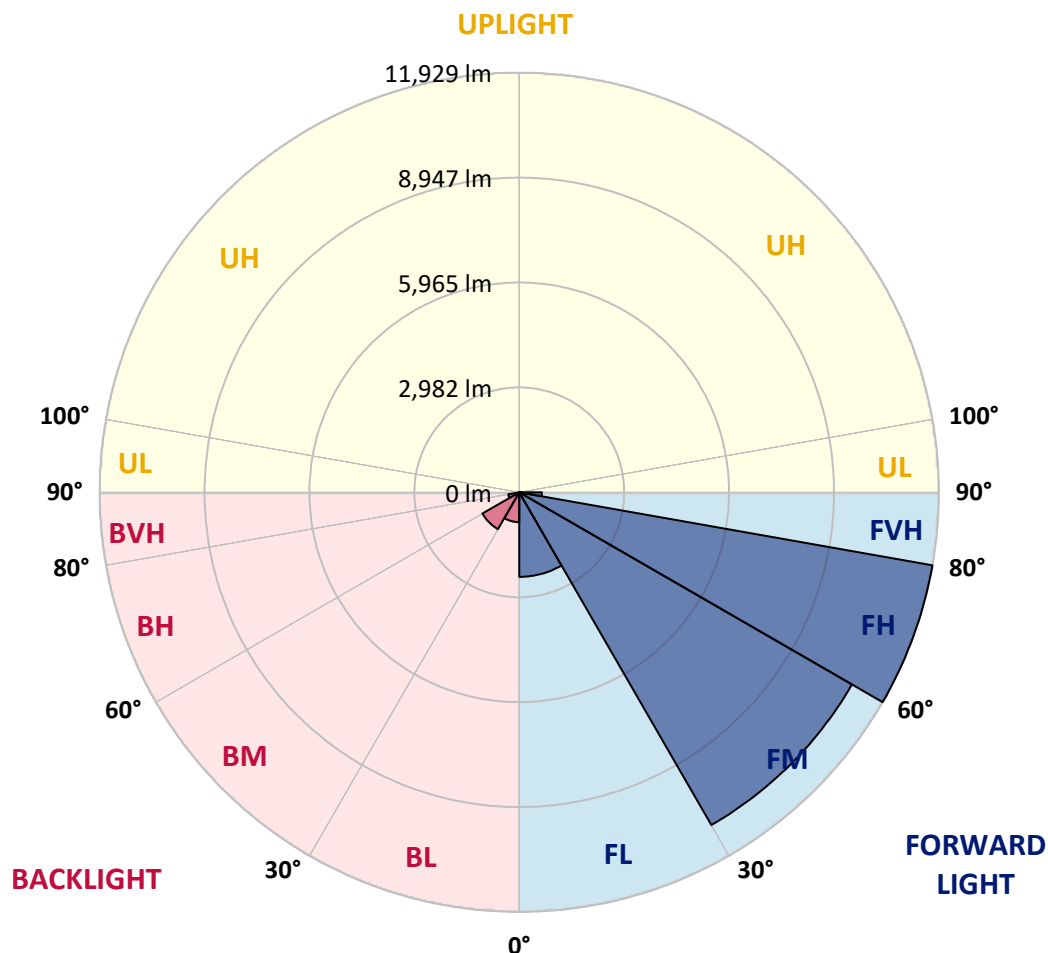
CATALOG NUMBER: GAN-SA9A-727-U-SL4-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2402.9	8.5			
FM	(30°-60°)	10921.8	38.6			
FH	(60°-80°)	11929.1	42.2			G4/12000
FVH	(80°-90°)	643.6	2.3			G4/750
BL	(0°-30°)	847.3	3.0	B2/1000		
BM	(30°-60°)	1208.4	4.3	B2/2500		
BH	(60°-80°)	317.9	1.1	B1/500		G1/500
BVH	(80°-90°)	6.1	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-G4

Type IV Short



REPORT NUMBER: P323753

CATALOG NUMBER: GAN-SA9A-727-U-SL4-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	5200.0	5200.0	5200.0	5200.0	5200.0	5200.0	5200.0	5200.0	5200.0	5200.0	5200.0
2.5°	5519.5	5520.6	5507.7	5486.6	5459.6	5445.5	5422.0	5384.4	5344.5	5272.9	5195.3
5°	5632.2	5632.2	5615.8	5587.6	5544.1	5531.2	5486.6	5426.7	5344.5	5228.2	5097.9
7.5°	5620.5	5622.8	5600.5	5571.1	5527.7	5515.9	5461.9	5395.0	5292.8	5151.9	4985.1
10°	5559.4	5565.3	5547.7	5533.6	5493.6	5480.7	5430.2	5363.3	5261.1	5110.8	4919.4
12.5°	5497.2	5503.0	5508.9	5521.8	5497.2	5492.5	5452.5	5396.2	5298.7	5142.5	4926.4
15°	5457.2	5469.0	5511.3	5561.7	5567.6	5562.9	5537.1	5484.2	5385.6	5223.5	4976.9
17.5°	5457.2	5476.0	5564.1	5660.4	5694.5	5698.0	5675.7	5601.7	5484.2	5310.4	5023.9
20°	5503.0	5528.9	5666.3	5802.5	5858.9	5858.9	5815.4	5712.1	5574.7	5389.1	5055.6
22.5°	5620.5	5654.5	5827.2	5984.5	6044.4	6031.5	5972.8	5822.5	5668.6	5478.4	5095.5
25°	5851.8	5877.7	6057.3	6215.9	6252.3	6222.9	6148.9	5956.3	5788.4	5599.3	5168.3
27.5°	6150.1	6153.6	6339.2	6473.0	6450.7	6430.8	6338.0	6124.3	5961.0	5772.0	5294.0
30°	6477.7	6477.7	6641.0	6743.2	6675.0	6658.6	6565.8	6327.4	6181.8	6006.8	5472.5
32.5°	6794.8	6808.9	6941.6	7006.2	6929.9	6913.4	6823.0	6584.6	6475.4	6365.0	5750.8
35°	7101.3	7111.9	7237.6	7272.8	7200.0	7204.7	7140.1	6938.1	6897.0	6882.9	6170.1
37.5°	7398.4	7400.8	7528.8	7551.1	7514.7	7554.6	7560.5	7382.0	7458.3	7572.2	6760.8
40°	7669.7	7672.1	7798.9	7856.4	7918.7	7970.4	8016.2	7921.0	8173.5	8437.7	7464.2
42.5°	7887.0	7911.6	8072.5	8181.7	8346.1	8444.8	8569.3	8564.6	9024.9	9421.9	8314.4
45°	8078.4	8120.7	8345.0	8536.4	8818.2	8975.6	9170.5	9323.2	9983.2	10517.5	9175.2
47.5°	8330.9	8370.8	8626.8	8940.4	9316.2	9522.9	9845.8	10175.8	11036.6	11593.2	10016.1
50°	8686.7	8669.1	8921.6	9371.4	9854.0	10125.3	10585.6	11080.0	12081.8	12530.4	10510.5
52.5°	9066.0	9059.0	9245.7	9839.9	10488.2	10805.2	11413.6	12014.8	13081.1	13176.3	10737.1
55°	9535.8	9485.3	9642.6	10374.3	11240.9	11581.5	12297.9	12940.2	13877.4	13540.3	10851.0
57.5°	10027.8	9944.4	10094.8	10969.7	12090.0	12492.8	13277.3	13842.1	14407.0	13789.3	10849.9
60°	10536.3	10437.7	10616.2	11714.2	13144.6	13610.8	14338.9	14451.6	14901.4	13914.9	10770.0
62.5°	10961.4	10902.7	11168.1	12510.4	14322.4	14780.4	15141.0	15005.9	15318.3	14012.4	10583.3
65°	11411.2	11414.7	11843.4	13439.3	15574.3	15883.2	15913.7	15724.6	15667.1	13992.4	9951.5
67.5°	12019.5	12075.9	12791.1	14700.6	16792.1	17030.5	17028.2	16503.2	15921.9	13198.6	8550.5
70°	12663.1	12795.8	13883.2	16143.9	18121.5	18363.4	18238.9	16998.8	14991.8	10672.5	6051.5
72.5°	12555.0	12785.2	14490.4	17054.0	19076.2	19260.6	18451.5	15781.0	11849.2	6202.9	2576.5
75°	9686.1	9952.7	13286.7	16152.1	18074.5	17908.9	15853.8	12280.2	6475.4	1731.0	580.1
77.5°	5116.7	5258.8	8777.1	12304.9	14093.4	13747.0	11168.1	6812.4	1974.1	428.6	260.7
80°	2679.9	2712.8	3824.9	6981.5	8698.5	8700.8	6618.7	2992.3	813.8	219.6	175.0
82.5°	1435.1	1463.2	2021.1	3226.0	4557.7	4131.4	2534.3	1646.4	473.3	124.5	167.9
85°	345.3	351.1	1146.2	1473.8	1792.1	1280.0	752.8	1382.2	128.0	72.8	136.2
87.5°	132.7	135.1	425.1	637.7	456.8	295.9	352.3	515.5	16.4	28.2	21.1
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: P323753

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5200.0	5200.0	5200.0	5200.0	5200.0	5200.0	5200.0	5200.0	5200.0	5200.0	5200.0
2.5°	5148.4	5117.8	5042.7	4947.6	4863.0	4801.9	4710.3	4650.4	4610.5	4609.3	4594.1
5°	5018.0	4955.8	4793.7	4601.1	4426.1	4268.8	4083.2	3936.4	3827.2	3809.6	3772.0
7.5°	4878.3	4776.1	4527.1	4226.5	3932.9	3634.6	3288.2	3073.3	2888.9	2800.8	2791.4
10°	4792.5	4649.3	4295.8	3861.3	3400.9	2915.9	2462.6	2149.1	1922.4	1857.8	1809.7
12.5°	4774.9	4585.9	4117.3	3518.4	2860.7	2219.5	1718.1	1384.6	1203.7	1146.2	1130.9
15°	4792.5	4556.5	3967.0	3179.0	2313.5	1574.8	1153.2	959.4	891.3	874.9	873.7
17.5°	4803.1	4521.3	3796.7	2802.0	1782.7	1125.0	883.1	826.7	816.2	815.0	817.4
20°	4801.9	4467.2	3593.5	2381.6	1325.8	884.3	798.6	786.8	784.5	785.6	784.5
22.5°	4793.7	4403.8	3370.4	1948.3	1001.7	790.3	762.2	755.1	753.9	753.9	753.9
25°	4809.0	4353.3	3125.0	1533.7	825.6	746.9	729.3	723.4	722.2	722.2	719.9
27.5°	4864.2	4325.2	2856.0	1180.2	745.7	708.1	694.0	692.9	689.3	688.2	690.5
30°	4953.4	4325.2	2561.3	918.3	697.6	668.2	657.6	655.3	654.1	652.9	654.1
32.5°	5110.8	4358.0	2239.5	763.3	651.8	623.6	616.5	620.1	616.5	616.5	616.5
35°	5395.0	4456.7	1902.5	665.9	603.6	580.1	573.1	577.8	575.4	575.4	574.3
37.5°	5809.5	4639.9	1563.1	607.1	561.3	536.7	527.3	534.3	532.0	532.0	530.8
40°	6314.5	4906.5	1240.1	562.5	520.2	494.4	486.2	489.7	483.8	483.8	486.2
42.5°	6938.1	5244.7	958.3	519.1	479.1	454.5	449.8	446.3	435.7	429.8	431.0
45°	7631.0	5597.0	746.9	476.8	440.4	420.4	413.4	404.0	386.4	374.6	375.8
47.5°	8249.8	5868.3	607.1	435.7	405.2	389.9	379.3	361.7	335.9	321.8	322.9
50°	8575.1	5909.4	516.7	394.6	372.3	357.0	341.7	314.7	284.2	268.9	267.8
52.5°	8658.5	5716.8	449.8	357.0	339.4	321.8	301.8	265.4	231.3	214.9	212.6
55°	8689.1	5423.2	389.9	321.8	304.2	284.2	258.4	217.3	185.5	169.1	167.9
57.5°	8588.1	4985.1	342.9	290.1	268.9	244.3	212.6	173.8	143.3	130.4	130.4
60°	8363.8	4392.1	306.5	256.0	232.5	204.3	171.5	135.1	106.9	96.3	96.3
62.5°	7916.3	3624.1	272.5	220.8	198.5	169.1	138.6	102.2	75.2	69.3	70.5
65°	7072.0	2749.2	238.4	189.1	169.1	139.7	108.0	72.8	50.5	50.5	52.8
67.5°	5767.3	1909.5	203.2	160.9	145.6	113.9	82.2	50.5	35.2	39.9	44.6
70°	3817.8	1071.0	173.8	132.7	124.5	90.4	61.1	34.1	28.2	37.6	45.8
72.5°	1440.9	416.9	145.6	106.9	108.0	69.3	43.5	25.8	25.8	41.1	54.0
75°	401.6	204.3	104.5	78.7	84.6	50.5	31.7	22.3	24.7	47.0	63.4
77.5°	236.0	150.3	68.1	45.8	57.5	35.2	21.1	17.6	21.1	39.9	61.1
80°	190.2	79.9	39.9	23.5	31.7	20.0	14.1	10.6	5.9	15.3	31.7
82.5°	190.2	48.1	18.8	16.4	16.4	10.6	7.0	4.7	1.2	0.0	8.2
85°	128.0	20.0	11.7	10.6	8.2	3.5	2.3	1.2	0.0	0.0	0.0
87.5°	21.1	8.2	4.7	2.3	1.2	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)