

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: P321541

Luminaire Tested: **GAN-SA7D-727-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321541
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-SA7D-727-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 1200mA 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: 35298 lumens
Efficiency: N/A
Efficacy: 78.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

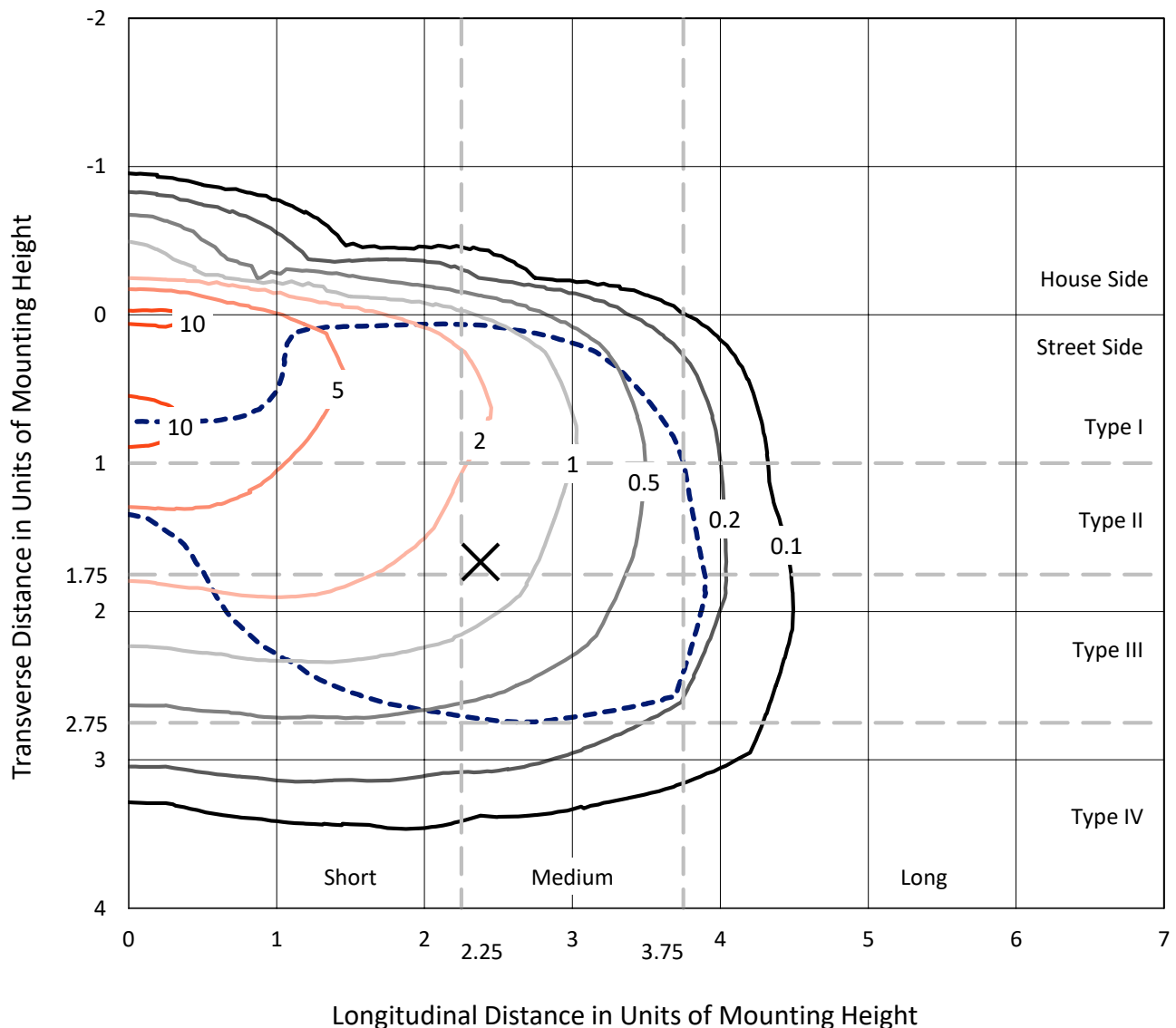
Input Watts (W): 448
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

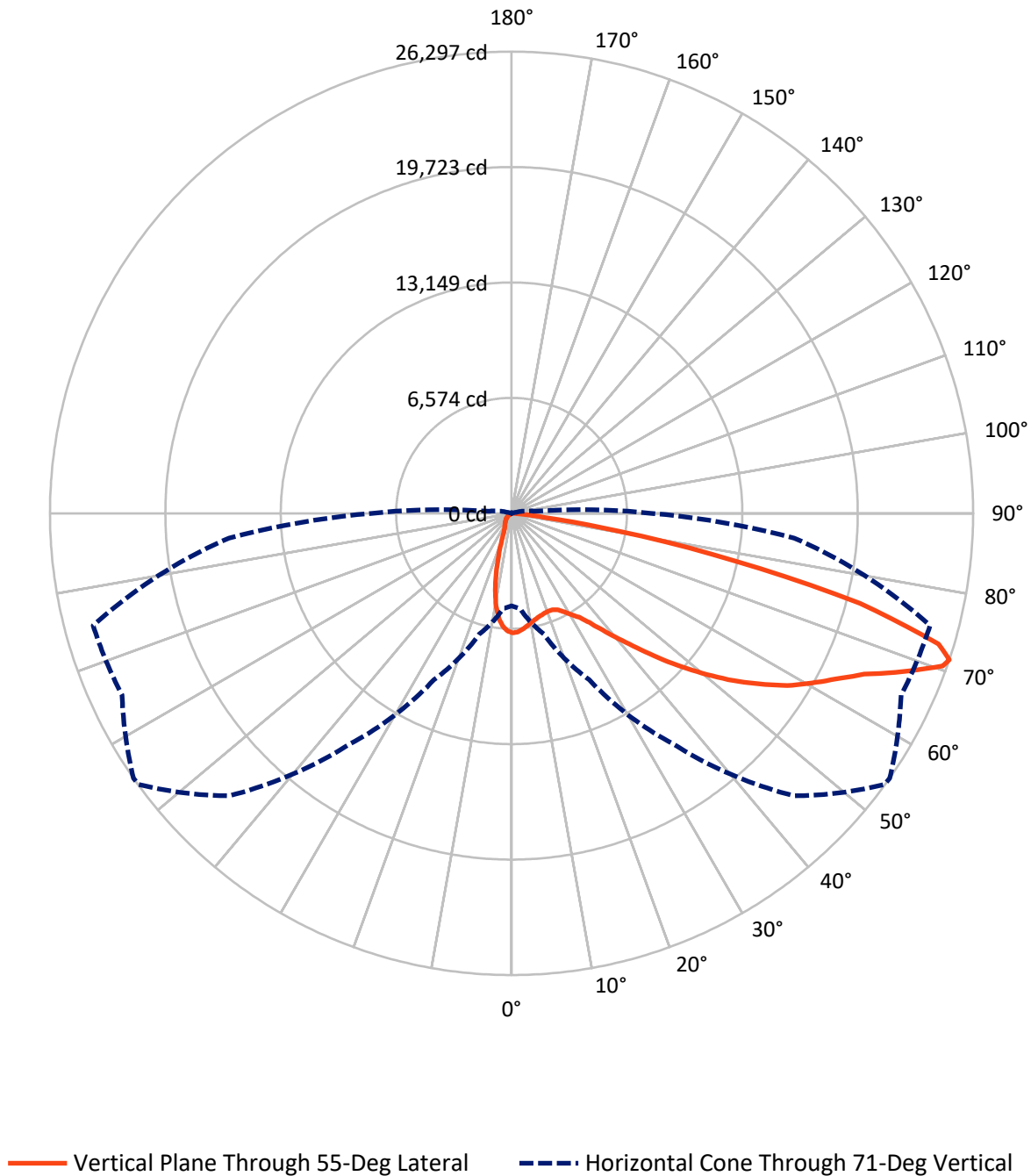
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.2 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	2794.6	0.0	2794.6
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	32503.4	0.0	32503.4
	% Fixture	92.1	0.0	92.1
Total	Lumens	35298.0	0.0	35298.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	580.4	1.6
10°-20°	1310.3	3.7
20°-30°	2105.8	6.0
30°-40°	3577.8	10.1
40°-50°	5553.2	15.7
50°-60°	7466.1	21.2
60°-70°	9133.5	25.9
70°-80°	5340.1	15.1
80°-90°	230.8	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°	35298.0	100.0
0°-180°	35298.0	100.0

Coefficient of Utilization



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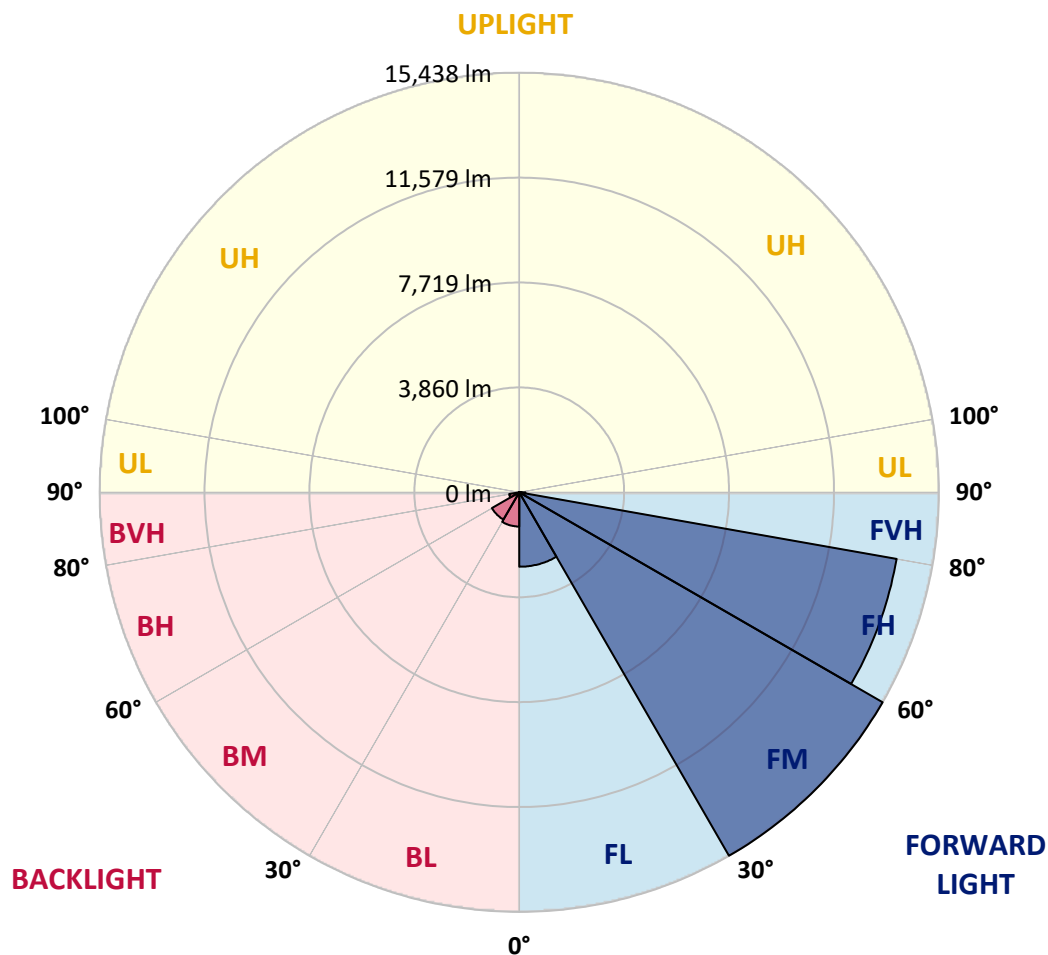
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2738.6	7.8			
FM	(30°-60°)	15438.3	43.7			
FH	(60°-80°)	14099.2	39.9			G5
FVH	(80°-90°)	227.2	0.6			G3/500
BL	(0°-30°)	1257.9	3.6	B3/2500		
BM	(30°-60°)	1158.7	3.3	B2/2500		
BH	(60°-80°)	374.4	1.1	B1/500		G1/500
BVH	(80°-90°)	3.6	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	6807.3	6807.3	6807.3	6807.3	6807.3	6807.3	6807.3	6807.3	6807.3	6807.3	6807.3
2.5°	6607.6	6615.6	6644.1	6656.8	6686.9	6737.6	6763.0	6764.6	6805.8	6821.6	6834.3
5°	6140.1	6187.6	6235.2	6285.9	6377.8	6499.9	6620.3	6631.4	6764.6	6862.8	6915.1
7.5°	5737.5	5780.3	5837.4	5918.2	6048.2	6239.9	6441.2	6465.0	6717.0	6940.5	7057.8
10°	5323.8	5358.7	5441.1	5560.0	5739.1	5995.9	6266.9	6306.5	6674.2	7045.1	7251.1
12.5°	4881.6	4902.2	5002.1	5173.3	5436.4	5762.9	6119.5	6171.8	6647.3	7165.5	7479.4
15°	4545.6	4555.1	4650.2	4827.7	5128.9	5553.7	6005.4	6068.8	6653.6	7309.8	7728.2
17.5°	4460.0	4464.8	4515.5	4637.6	4903.8	5366.6	5915.0	5992.7	6672.6	7450.8	7978.6
20°	4807.1	4773.9	4721.6	4702.5	4816.7	5254.1	5861.1	5948.3	6698.0	7576.0	8203.7
22.5°	5759.7	5661.4	5444.3	5154.2	4978.3	5262.0	5875.4	5962.6	6778.8	7729.8	8463.6
25°	7173.5	7037.2	6667.9	6097.3	5548.9	5490.3	5994.3	6083.0	6935.7	7913.6	8712.5
27.5°	8782.2	8647.5	8195.8	7381.1	6446.0	5942.0	6266.9	6349.3	7168.7	8076.9	8902.6
30°	10322.8	10284.7	9752.2	8826.6	7574.5	6674.2	6618.7	6688.5	7341.5	8175.2	9053.2
32.5°	11628.8	11568.5	11140.6	10240.3	8866.2	7553.9	7032.4	7053.0	7471.4	8302.0	9249.7
35°	12839.7	12765.2	12389.5	11538.4	10191.2	8628.4	7669.6	7639.4	7755.1	8557.1	9535.0
37.5°	13896.8	13965.0	13548.1	12738.2	11379.9	9745.8	8528.6	8438.3	8198.9	8972.4	9948.7
40°	14781.2	14781.2	14564.1	13888.9	12663.7	10901.3	9500.2	9381.3	8866.2	9612.7	10473.3
42.5°	15099.8	15167.9	15248.8	14866.8	13812.8	12102.7	10582.7	10459.1	9806.1	10520.9	11135.8
45°	15118.8	15226.6	15640.3	15638.7	14851.0	13296.1	11803.1	11744.5	11010.6	11687.4	11956.8
47.5°	14851.0	14985.7	15667.2	16053.9	15673.5	14407.2	13137.6	13064.7	12426.0	13117.0	12815.9
50°	14437.3	14586.3	15378.7	16217.2	16233.0	15374.0	14543.5	14434.1	13984.0	14751.1	13703.4
52.5°	13697.1	13985.6	15120.4	16255.2	16600.7	16209.2	15881.2	15833.6	15727.4	16325.0	14410.3
55°	12113.7	12433.9	14472.1	16267.9	16941.5	16949.4	17134.9	17147.5	17361.5	17795.8	14936.5
57.5°	11365.7	11546.3	13340.5	16328.1	17447.1	17789.4	18412.3	18510.6	18841.8	19192.1	15537.2
60°	10894.9	11108.9	12782.6	16245.7	18241.2	18891.0	19596.3	19629.6	19984.6	20632.8	16350.3
62.5°	10519.3	10730.1	12430.7	15928.7	19133.5	20216.0	20753.3	20756.5	21022.7	22349.3	17274.3
65°	9592.1	9769.6	11719.1	15572.1	19723.1	21526.7	22097.3	22076.7	22293.9	24159.3	18347.3
67.5°	8251.2	8387.5	10265.7	14220.1	19501.2	22718.6	24126.1	24057.9	23794.8	25723.7	18768.9
70°	6379.4	6428.5	8091.2	11850.6	17421.7	23176.7	26086.6	26051.8	24715.7	25443.1	17223.6
71°	5273.1	5434.8	7130.7	10459.1	16028.6	22753.5	26276.8	26297.4	24484.3	24679.2	16160.1
72.5°	3062.1	3200.0	5168.5	8032.5	13608.4	20987.9	25291.0	25440.0	23403.3	22447.6	13803.3
75°	656.2	702.1	1916.2	3887.9	7485.7	14709.9	19962.4	20493.4	19074.8	15271.0	8319.4
77.5°	456.5	492.9	821.0	1764.0	2474.1	7268.6	12400.6	12999.7	11395.8	5739.1	2662.7
80°	361.4	402.6	640.3	871.7	668.8	2344.1	5808.8	6175.0	3800.7	1280.6	448.5
82.5°	201.3	239.3	499.3	470.7	256.8	445.4	1626.2	1838.5	760.8	258.3	106.2
85°	58.6	71.3	321.7	342.3	109.4	85.6	277.4	343.9	144.2	68.2	47.5
87.5°	0.0	0.0	155.3	131.6	31.7	12.7	25.4	28.5	28.5	28.5	31.7
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°	6807.3	6807.3	6807.3	6807.3	6807.3	6807.3	6807.3	6807.3	6807.3	6807.3	6807.3
2.5°	6834.3	6845.4	6805.8	6753.5	6698.0	6629.8	6558.5	6503.0	6501.5	6474.5	6447.6
5°	6918.3	6912.0	6802.6	6636.2	6439.6	6235.2	6040.2	5819.9	5747.0	5656.7	5626.6
7.5°	7073.6	7029.2	6797.8	6433.3	6002.2	5574.3	5132.1	4686.7	4496.5	4325.3	4295.2
10°	7268.6	7184.6	6767.7	6129.0	5338.1	4548.8	3881.5	3276.1	3009.8	2805.4	2795.8
12.5°	7471.4	7343.1	6683.7	5669.4	4468.0	3358.5	2589.8	1993.9	1772.0	1629.3	1642.0
15°	7683.8	7492.0	6503.0	5049.6	3477.4	2279.2	1591.3	1241.0	1152.3	1115.8	1125.3
17.5°	7901.0	7595.1	6251.0	4303.1	2499.5	1470.8	1101.5	1003.3	1003.3	1011.2	1014.4
20°	8089.6	7650.5	5880.2	3466.3	1694.3	1071.4	963.6	949.4	957.3	970.0	971.6
22.5°	8276.6	7653.7	5396.7	2618.3	1185.5	938.3	917.7	911.3	916.1	930.4	931.9
25°	8428.7	7615.7	4791.3	1862.3	946.2	884.4	874.9	871.7	874.9	892.3	892.3
27.5°	8490.6	7477.8	4052.7	1309.2	847.9	824.2	821.0	824.2	828.9	841.6	843.2
30°	8496.9	7236.9	3247.6	947.8	768.7	743.3	749.7	760.8	756.0	752.8	756.0
32.5°	8512.7	6957.9	2463.0	779.8	702.1	662.5	654.6	654.6	635.6	624.5	618.1
35°	8565.1	6629.8	1786.2	700.5	634.0	588.0	557.9	523.0	486.6	467.6	462.8
37.5°	8647.5	6285.9	1279.1	648.2	573.8	521.4	464.4	402.6	350.3	336.0	336.0
40°	8798.0	5930.9	946.2	607.0	526.2	461.2	375.6	294.8	247.3	239.3	239.3
42.5°	9035.8	5556.8	754.4	570.6	485.0	399.4	286.9	214.0	179.1	174.3	172.8
45°	9283.0	5144.7	659.3	535.7	440.6	328.1	212.4	158.5	137.9	133.1	133.1
47.5°	9530.3	4705.7	613.4	502.4	397.8	255.2	158.5	125.2	115.7	115.7	117.3
50°	9739.5	4247.7	580.1	466.0	342.3	193.4	125.2	106.2	103.0	109.4	110.9
52.5°	9791.8	3797.5	538.9	420.0	274.2	147.4	103.0	93.5	93.5	93.5	93.5
55°	9760.1	3448.8	485.0	363.0	202.9	117.3	88.8	82.4	80.8	80.8	80.8
57.5°	9867.9	3242.8	388.3	282.1	145.8	95.1	77.7	72.9	69.7	68.2	68.2
60°	10085.0	3108.1	277.4	202.9	109.4	79.2	66.6	61.8	57.1	53.9	53.9
62.5°	10373.5	2990.8	206.0	150.6	84.0	63.4	55.5	50.7	44.4	41.2	41.2
65°	10595.4	2781.6	156.9	112.5	63.4	50.7	42.8	41.2	31.7	28.5	26.9
67.5°	10256.2	2321.9	126.8	82.4	47.5	39.6	33.3	31.7	19.0	15.8	15.8
70°	8796.5	1616.6	101.4	60.2	34.9	31.7	26.9	20.6	14.3	12.7	12.7
71°	7977.0	1350.4	91.9	50.7	30.1	30.1	25.4	17.4	12.7	11.1	11.1
72.5°	6626.7	958.9	77.7	39.6	26.9	31.7	26.9	15.8	12.7	11.1	9.5
75°	3846.7	401.0	53.9	26.9	20.6	38.0	34.9	14.3	9.5	7.9	7.9
77.5°	1157.0	147.4	30.1	17.4	15.8	33.3	39.6	12.7	4.8	1.6	1.6
80°	210.8	63.4	19.0	11.1	11.1	20.6	30.1	6.3	0.0	0.0	0.0
82.5°	74.5	31.7	11.1	6.3	4.8	9.5	14.3	0.0	0.0	0.0	0.0
85°	42.8	22.2	6.3	3.2	0.0	1.6	3.2	0.0	0.0	0.0	0.0
87.5°	28.5	6.3	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)