

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: P323141

Luminaire Tested: **GAN-SA7D-727-U-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323141
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-21)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7D-727-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38014 lumens
Efficiency: N/A
Efficacy: 84.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

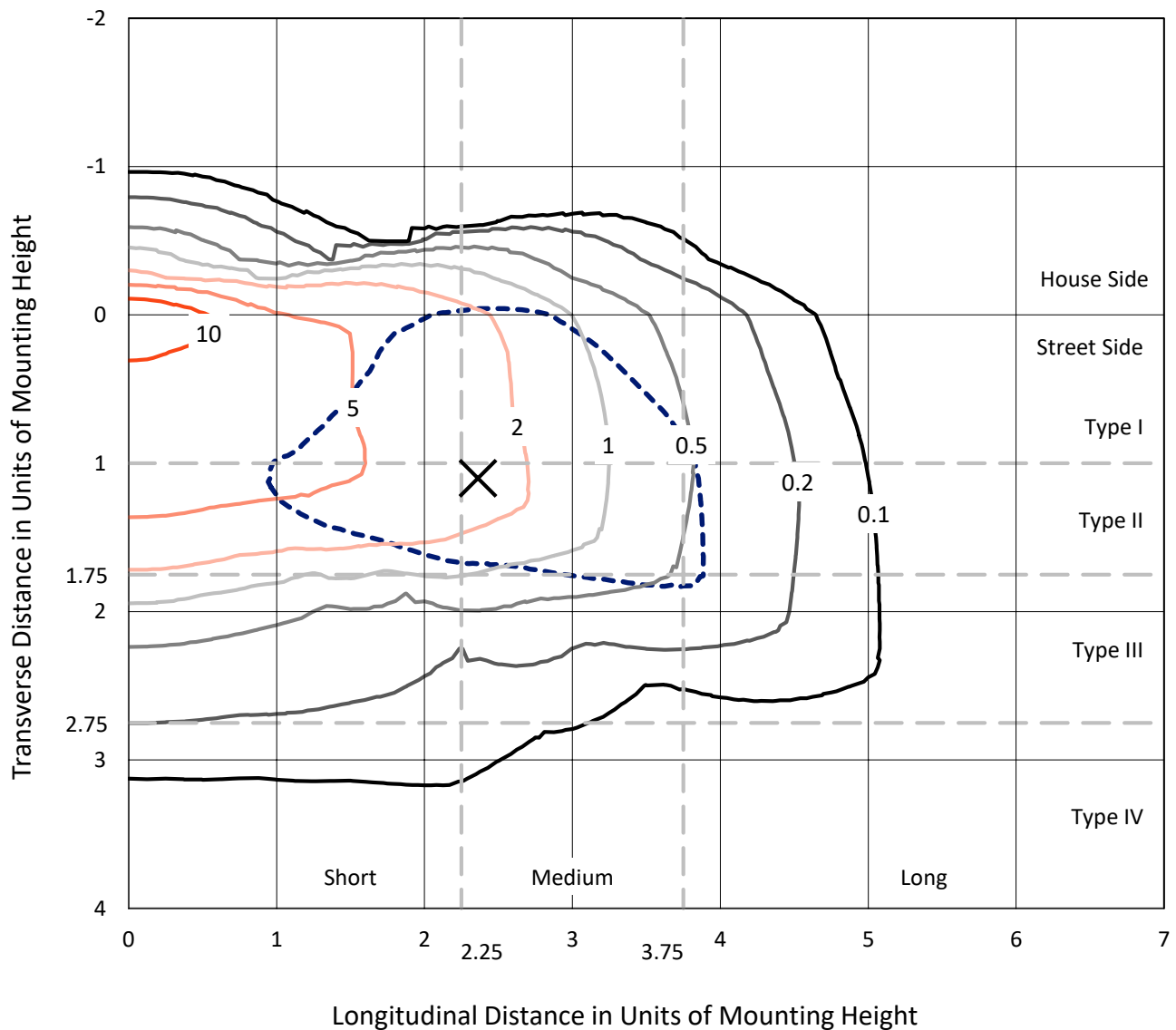
Input Watts (W): 448
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P323141
 CATALOG NUMBER: GAN-SA7D-727-U-SL2-HSS

Iso-Footcandle Lines of Horizontal Illumination

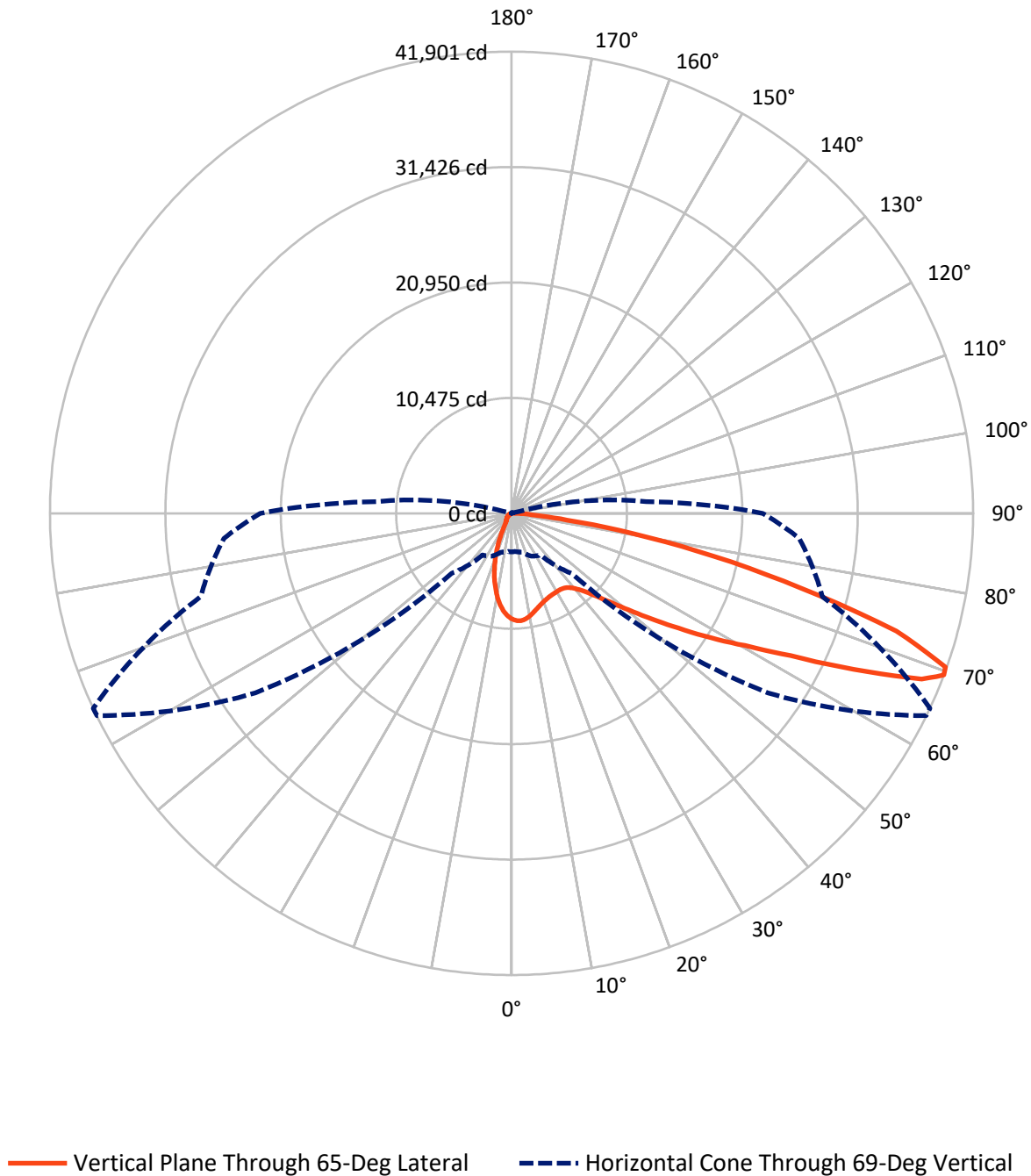
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.4 fc
 Type III - Medium - N/A

REPORT NUMBER: P323141
CATALOG NUMBER: GAN-SA7D-727-U-SL2-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P323141

CATALOG NUMBER: GAN-SA7D-727-U-SL2-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4480.9	0.0	4480.9
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	33533.1	0.0	33533.1
	% Fixture	88.2	0.0	88.2
Total	Lumens	38014.0	0.0	38014.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	803.3	2.1
10°-20°	1758.4	4.6
20°-30°	2435.5	6.4
30°-40°	3395.8	8.9
40°-50°	5278.2	13.9
50°-60°	8473.6	22.3
60°-70°	9585.0	25.2
70°-80°	5629.4	14.8
80°-90°	654.8	1.7
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°	38014.0	100.0
0°-180°	38014.0	100.0

Coefficient of Utilization



REPORT NUMBER: P323141

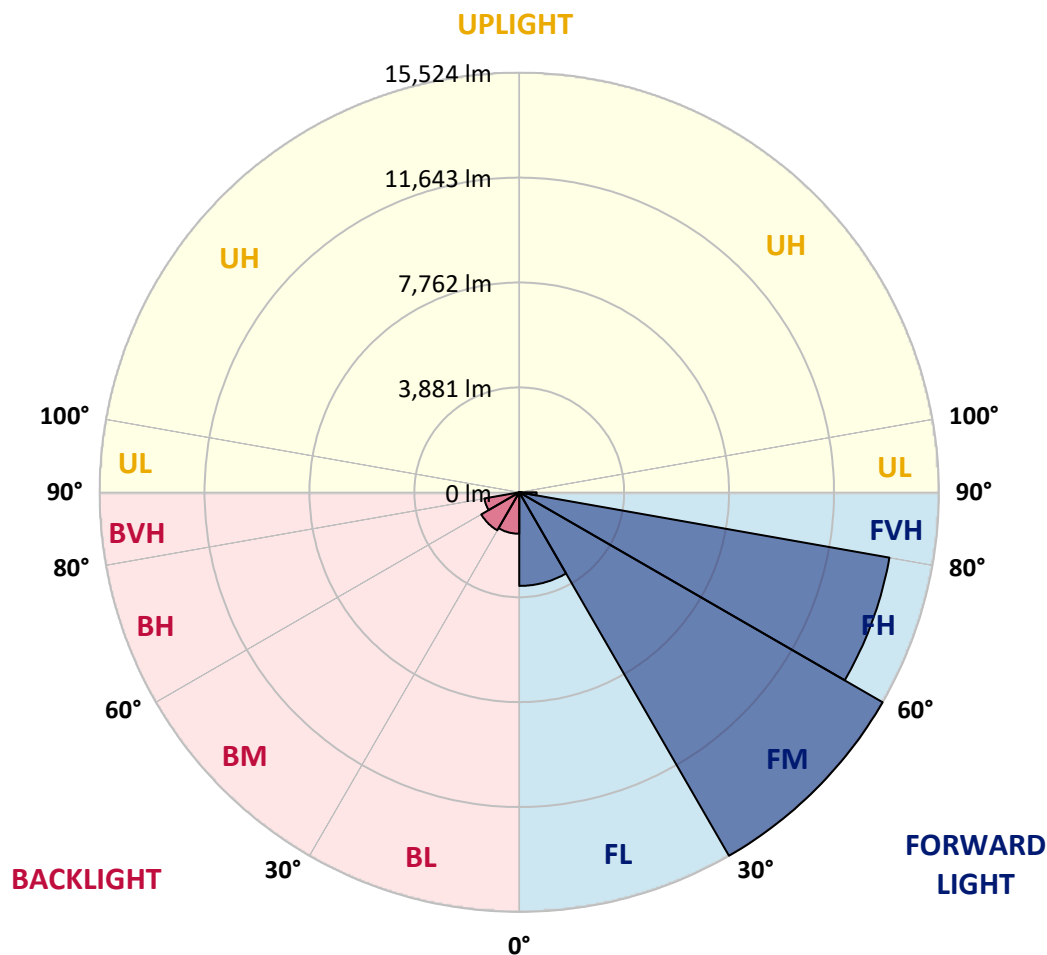
CATALOG NUMBER: GAN-SA7D-727-U-SL2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3464.0	9.1			
FM	(30°-60°)	15523.8	40.8			
FH	(60°-80°)	13905.2	36.6			G5
FVH	(80°-90°)	640.1	1.7			G4/750
BL	(0°-30°)	1533.2	4.0	B3/2500		
BM	(30°-60°)	1623.8	4.3	B2/2500		
BH	(60°-80°)	1309.2	3.4	B3/2500		G3/2500
BVH	(80°-90°)	14.7	0.0			G1/100
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



REPORT NUMBER: P323141

CATALOG NUMBER: GAN-SA7D-727-U-SL2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	9606.2	9606.2	9606.2	9606.2	9606.2	9606.2	9606.2	9606.2	9606.2	9606.2	9606.2
2.5°	9691.5	9667.3	9686.6	9728.5	9749.4	9749.4	9765.4	9746.1	9752.6	9705.9	9638.4
5°	9085.0	9048.0	9101.1	9218.5	9363.3	9487.2	9670.5	9767.1	9776.7	9778.3	9699.5
7.5°	8432.0	8398.2	8477.0	8615.3	8801.9	9032.0	9352.1	9631.9	9648.0	9799.2	9741.3
10°	7901.2	7877.0	7968.7	8116.7	8335.5	8592.8	8985.3	9374.6	9421.2	9755.8	9734.9
12.5°	7479.7	7460.4	7547.3	7717.8	7941.4	8226.1	8636.3	9088.3	9151.0	9657.7	9702.7
15°	7172.5	7169.3	7241.6	7405.7	7653.4	7918.8	8338.7	8822.8	8895.2	9551.5	9697.9
17.5°	7011.6	7016.5	7069.5	7209.5	7421.8	7685.6	8087.7	8599.3	8678.1	9456.6	9722.0
20°	6995.5	7000.4	7029.3	7108.1	7280.3	7513.5	7883.5	8411.1	8493.1	9385.8	9760.6
22.5°	7137.1	7133.9	7141.9	7133.9	7230.4	7407.3	7748.3	8266.3	8361.2	9339.2	9791.2
25°	7408.9	7404.1	7400.9	7341.4	7277.0	7371.9	7692.0	8184.3	8274.3	9305.4	9808.9
27.5°	7786.9	7783.7	7778.9	7680.8	7487.8	7428.2	7698.5	8153.7	8229.3	9278.1	9805.7
30°	8284.0	8306.5	8300.1	8163.3	7862.5	7600.4	7766.0	8137.6	8203.6	9225.0	9771.9
32.5°	8867.9	8912.9	8948.3	8801.9	8425.5	7941.4	7922.1	8155.3	8203.6	9184.8	9710.8
35°	9474.3	9532.2	9662.5	9611.0	9115.6	8454.5	8190.7	8261.5	8301.7	9207.3	9681.8
37.5°	10071.1	10140.2	10423.3	10572.9	10019.6	9133.3	8608.9	8523.7	8544.6	9344.0	9714.0
40°	10764.4	10868.9	11298.4	11539.7	11098.9	10042.1	9234.6	8974.0	8982.1	9644.8	9863.6
42.5°	11674.8	11782.6	12247.4	12625.4	12315.0	11190.6	10083.9	9662.5	9654.5	10207.8	10215.8
45°	12784.7	12897.3	13378.2	13798.1	13658.1	12551.4	11171.3	10667.8	10658.2	11095.7	10883.4
47.5°	14042.6	14153.5	14583.0	15015.7	15166.9	14140.7	12556.3	12039.9	12017.4	12329.5	11914.5
50°	15121.9	15194.3	15590.0	16172.3	16854.3	16093.4	14279.0	13782.0	13757.8	13968.6	13428.1
52.5°	15514.4	15556.2	15958.3	16773.9	18475.7	18737.9	16542.2	15902.0	15884.3	15976.0	15443.6
55°	14719.8	14795.4	15289.2	16498.8	19354.0	21726.6	19399.0	18527.2	18393.7	18195.8	17550.8
57.5°	12554.7	12675.3	13206.1	14814.7	18943.8	24097.5	23597.3	21496.5	21300.3	20090.7	19263.9
60°	9406.7	9554.7	9995.5	11731.1	16754.6	24942.0	28184.8	24805.3	24363.0	21599.5	20838.6
62.5°	6455.1	6529.1	6828.3	7959.1	12339.1	23558.7	32022.8	29236.8	28429.3	23240.2	22542.1
65°	4930.2	4955.9	5078.2	5467.4	7347.8	19136.8	33549.3	35083.9	34107.5	25202.6	24309.9
67.5°	3973.1	3952.2	4121.1	4677.6	4920.5	11674.8	31768.7	40615.6	40158.8	27826.1	26088.9
69°	3503.4	3474.4	3646.6	4293.2	4621.3	7717.8	28400.4	41871.9	41900.9	29211.1	26211.2
70°	3152.7	3172.0	3342.5	4064.8	4520.0	6057.8	25183.3	41551.8	41780.2	29729.0	25477.7
72.5°	2105.6	2157.1	2499.7	3374.7	4346.3	4584.3	15205.5	35656.5	36534.8	28562.9	21858.5
75°	1187.1	1225.7	1632.7	2544.7	4095.3	4365.6	8031.4	26269.1	27118.4	23885.2	16855.9
77.5°	582.3	603.2	923.3	1642.3	3424.6	4159.7	4555.4	17843.5	18813.5	15590.0	9533.8
80°	246.1	257.4	461.7	1013.4	2448.2	3969.9	3382.8	10981.5	11102.1	6107.6	2539.9
82.5°	94.9	98.1	194.6	632.2	1555.5	3094.8	2829.4	5206.8	5081.4	1150.1	579.1
85°	11.3	12.9	70.8	379.6	865.4	1592.5	2298.6	2243.9	2076.6	228.4	297.6
87.5°	0.0	0.0	4.8	115.8	257.4	746.4	1195.1	931.3	839.7	74.0	154.4
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: P323141

CATALOG NUMBER: GAN-SA7D-727-U-SL2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9606.2	9606.2	9606.2	9606.2	9606.2	9606.2	9606.2	9606.2	9606.2	9606.2	9606.2
2.5°	9582.1	9566.0	9479.1	9353.7	9234.6	9086.6	8945.1	8859.8	8792.3	8747.2	8800.3
5°	9607.8	9537.0	9273.2	8935.4	8604.1	8230.9	7883.5	7589.1	7473.3	7344.6	7402.5
7.5°	9599.8	9466.3	8991.7	8390.1	7782.1	7153.2	6558.0	6099.6	5861.5	5628.3	5687.8
10°	9559.6	9334.4	8615.3	7724.2	6813.8	5909.8	5065.3	4423.5	4064.8	3739.9	3786.5
12.5°	9471.1	9157.4	8171.4	6961.8	5744.1	4552.2	3562.9	2741.0	2300.2	2105.6	2129.7
15°	9418.0	8985.3	7701.7	6189.7	4602.0	3170.4	2178.0	1619.8	1418.7	1354.4	1362.4
17.5°	9392.3	8819.6	7215.9	5306.6	3434.2	2018.7	1407.5	1241.8	1198.4	1187.1	1190.3
20°	9366.5	8652.3	6715.7	4433.1	2366.2	1357.6	1156.5	1108.3	1092.2	1077.7	1080.9
22.5°	9323.1	8491.5	6178.4	3548.4	1595.7	1101.9	1042.3	995.7	961.9	944.2	947.4
25°	9270.0	8322.6	5629.9	2642.8	1164.6	982.8	926.5	860.6	820.4	788.2	789.8
27.5°	9184.8	8115.1	5063.7	1923.8	978.0	879.9	804.3	731.9	664.3	627.3	627.3
30°	9065.7	7880.2	4434.7	1376.9	876.7	778.5	686.8	596.8	524.4	490.6	487.4
32.5°	8933.8	7635.7	3799.4	1043.9	796.2	683.6	579.1	484.2	419.8	392.5	390.9
35°	8821.2	7371.9	3165.6	875.0	715.8	591.9	477.7	397.3	345.8	323.3	321.7
37.5°	8748.9	7108.1	2547.9	781.8	643.4	506.7	400.5	328.1	291.1	273.5	271.8
40°	8737.6	6911.9	1983.3	711.0	575.9	431.1	334.6	278.3	244.5	225.2	223.6
42.5°	8884.0	6799.3	1521.7	651.5	506.7	365.1	284.7	238.1	202.7	183.4	181.8
45°	9268.4	6834.7	1171.0	598.4	437.5	308.8	241.3	197.9	165.7	151.2	148.0
47.5°	9969.7	7079.2	931.3	545.3	371.6	262.2	205.9	164.1	136.7	122.2	120.6
50°	11218.0	7653.4	778.5	487.4	310.4	223.6	170.5	133.5	111.0	98.1	96.5
52.5°	12874.8	8676.5	694.9	431.1	257.4	189.8	139.9	106.2	86.9	77.2	75.6
55°	14702.1	9915.0	640.2	370.0	210.7	157.6	111.0	83.6	67.6	59.5	56.3
57.5°	16485.9	10987.9	588.7	310.4	175.3	128.7	88.5	66.0	53.1	45.0	43.4
60°	18125.0	11974.0	529.2	249.3	143.2	101.3	69.2	51.5	41.8	33.8	33.8
62.5°	19880.0	12736.4	447.2	194.6	117.4	77.2	56.3	46.6	33.8	29.0	27.3
65°	21739.4	13302.6	350.7	151.2	91.7	57.9	46.6	48.3	27.3	20.9	19.3
67.5°	23113.1	13190.0	259.0	119.0	70.8	45.0	45.0	51.5	24.1	16.1	14.5
69°	22810.7	12274.8	217.2	102.9	61.1	38.6	41.8	51.5	22.5	14.5	12.9
70°	21934.1	11261.4	191.4	91.7	54.7	35.4	40.2	49.9	20.9	14.5	12.9
72.5°	18266.6	8481.8	149.6	69.2	43.4	29.0	33.8	43.4	20.9	14.5	11.3
75°	13740.2	5428.8	114.2	49.9	32.2	22.5	25.7	32.2	20.9	12.9	11.3
77.5°	7476.5	1957.6	82.0	33.8	22.5	17.7	17.7	24.1	19.3	9.7	6.4
80°	1922.2	492.2	51.5	22.5	17.7	12.9	11.3	16.1	11.3	1.6	0.0
82.5°	474.5	111.0	27.3	16.1	12.9	4.8	4.8	8.0	4.8	0.0	0.0
85°	260.6	54.7	17.7	11.3	6.4	0.0	0.0	1.6	0.0	0.0	0.0
87.5°	133.5	16.1	4.8	3.2	1.6	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)