

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: P454389

Luminaire Tested: **GLAN-SA5C-727-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454389
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA5C-727-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 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: 23053 lumens
Efficiency: N/A
Efficacy: 85.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

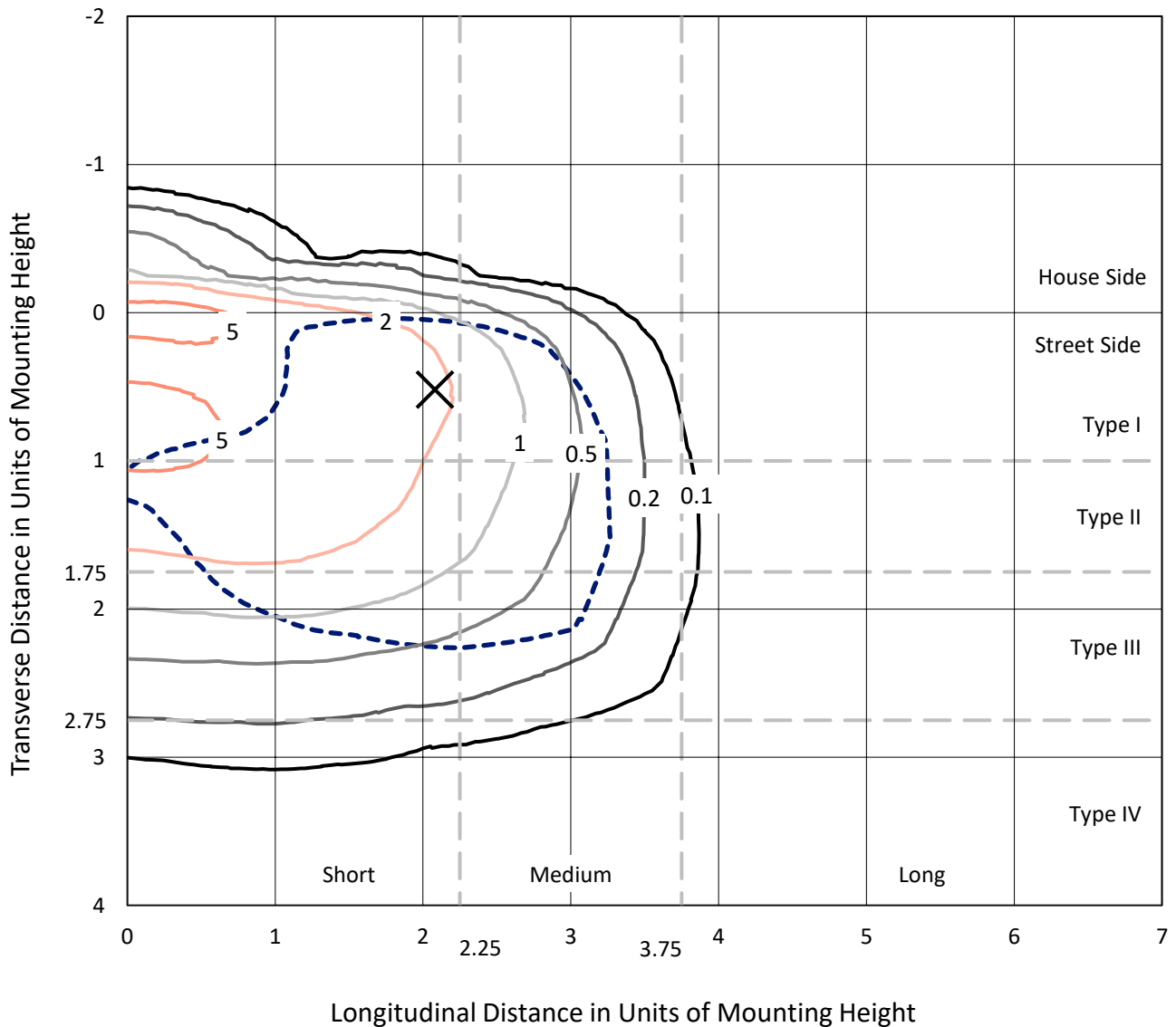
Input Watts (W): 269
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

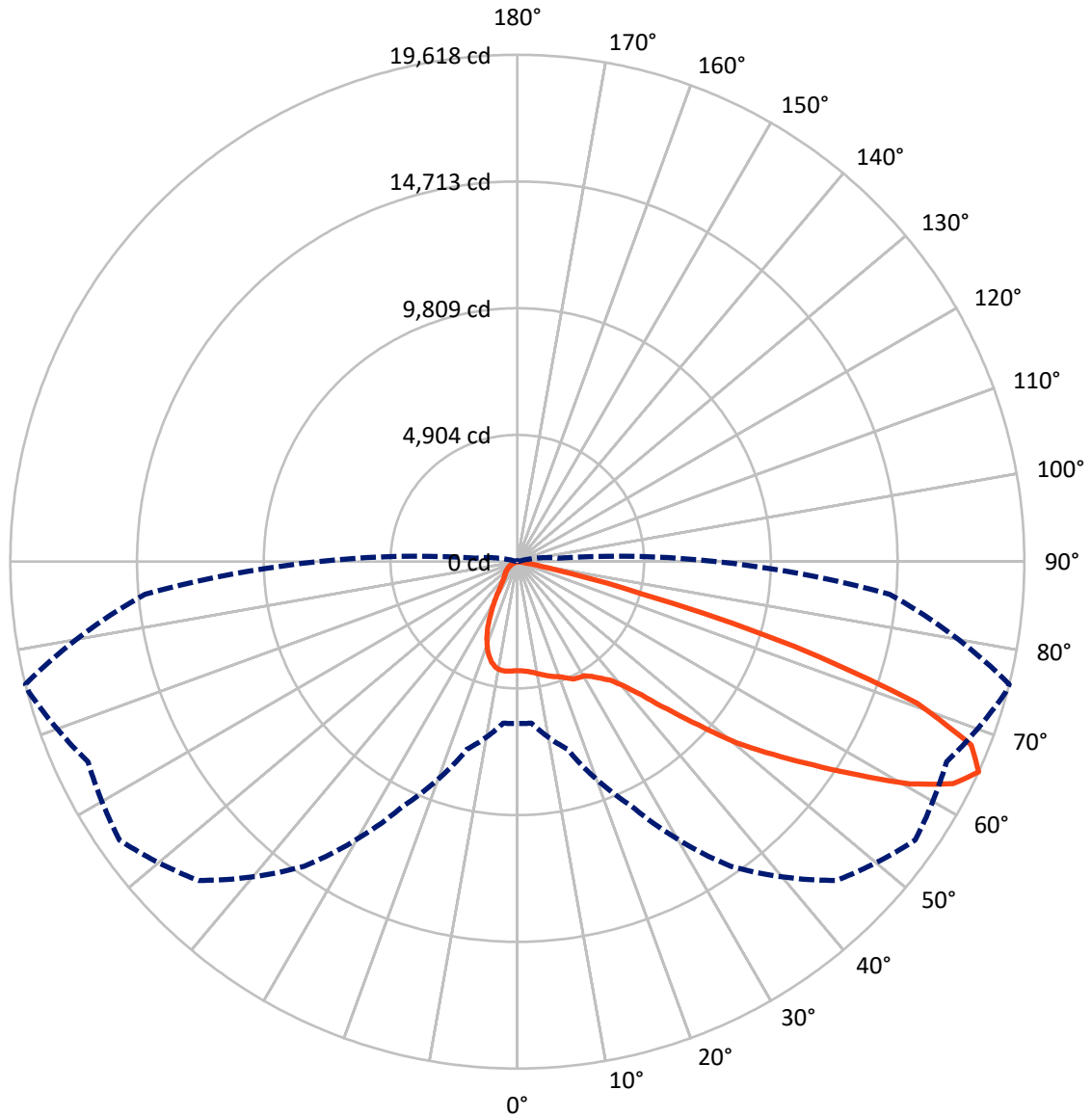
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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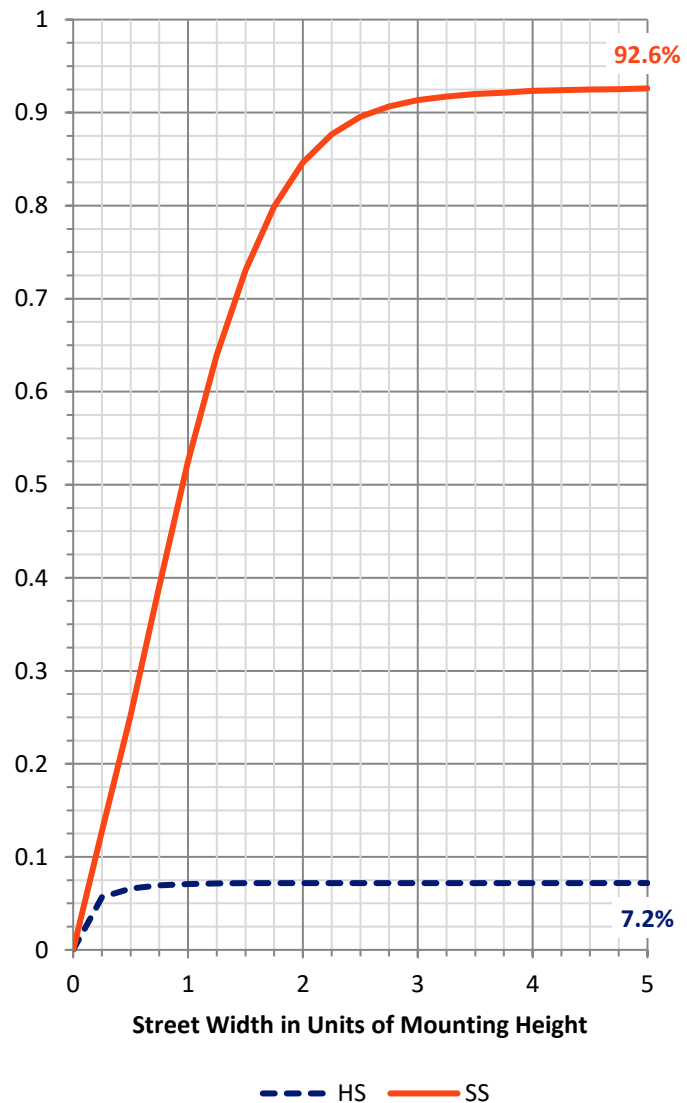
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1664.9	0.0	1664.9
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	21388.1	0.0	21388.1
	% Fixture	92.8	0.0	92.8
Total	Lumens	23053.0	0.0	23053.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	347.4	1.5
10°-20°	773.5	3.4
20°-30°	1246.4	5.4
30°-40°	2167.2	9.4
40°-50°	3581.2	15.5
50°-60°	5532.2	24.0
60°-70°	6755.6	29.3
70°-80°	2563.9	11.1
80°-90°	85.6	0.4
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°	23053.0	100.0
0°-180°	23053.0	100.0



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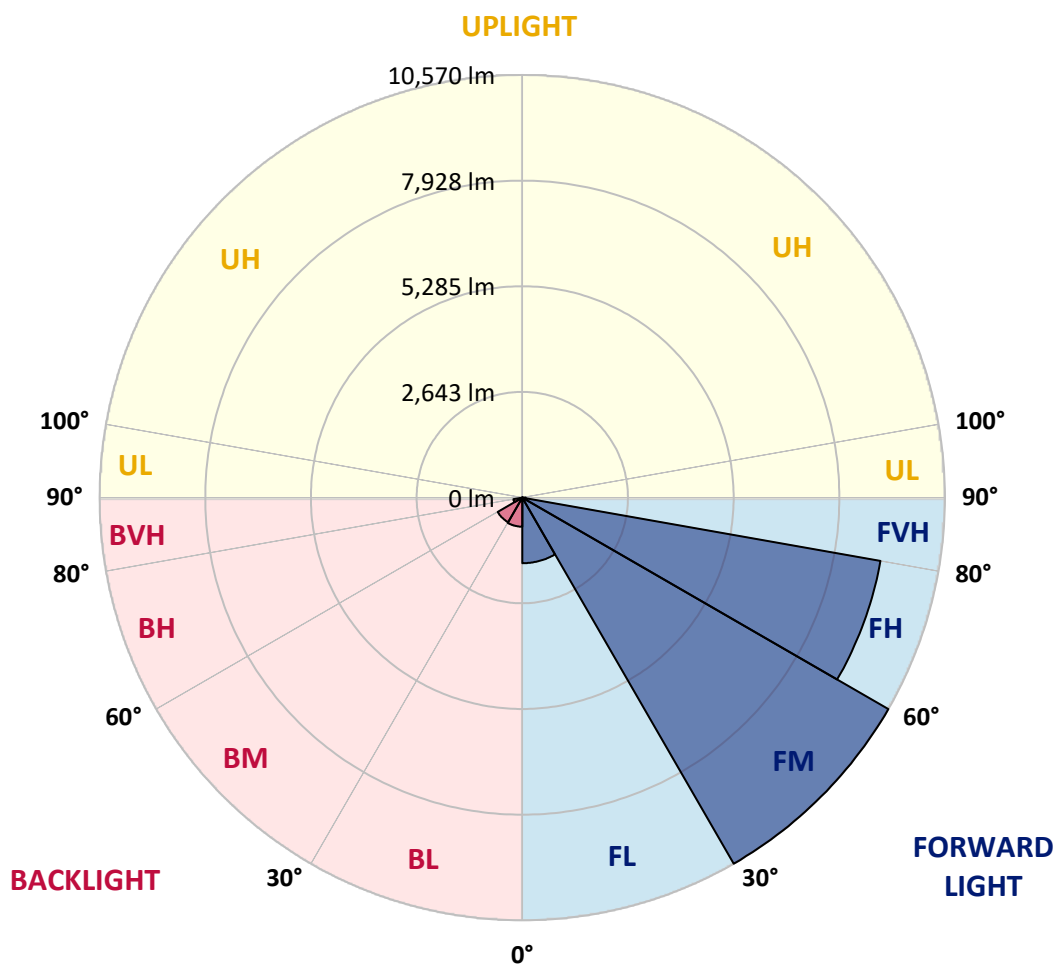
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1639.9	7.1			
FM (30°-60°)	10570.1	45.9			
FH (60°-80°)	9093.6	39.4			G4/12000
FVH (80°-90°)	84.4	0.4			G1/100
BL (0°-30°)	727.4	3.2	B2/1000		
BM (30°-60°)	710.5	3.1	B1/1000		
BH (60°-80°)	225.9	1.0	B1/500		G1/500
BVH (80°-90°)	1.2	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4217.1	4217.1	4217.1	4217.1	4217.1	4217.1	4217.1	4217.1	4217.1	4217.1	4217.1
2.5°	4030.0	4031.6	4041.3	4065.8	4103.2	4134.1	4160.2	4202.5	4231.8	4235.0	4244.8
5°	3751.6	3732.1	3751.6	3815.1	3872.1	3958.3	4064.1	4169.9	4264.3	4270.8	4316.4
7.5°	3439.1	3455.4	3486.3	3551.4	3658.9	3790.7	3943.7	4132.5	4311.5	4327.8	4417.3
10°	3121.7	3157.6	3208.0	3307.3	3457.0	3627.9	3836.3	4106.5	4386.4	4409.2	4563.8
12.5°	2828.8	2845.1	2906.9	3040.4	3225.9	3466.8	3754.9	4091.8	4469.4	4497.1	4720.1
15°	2604.2	2625.3	2679.0	2799.5	3006.2	3315.4	3688.2	4086.9	4550.8	4589.9	4876.3
17.5°	2561.9	2574.9	2597.7	2679.0	2859.7	3195.0	3627.9	4085.3	4628.9	4676.1	5021.2
20°	2736.0	2724.6	2701.8	2693.7	2793.0	3102.2	3584.0	4098.3	4703.8	4757.5	5174.2
22.5°	3172.2	3186.9	3053.4	2895.5	2863.0	3087.6	3577.5	4160.2	4822.6	4886.1	5345.1
25°	4098.3	3986.0	3777.7	3400.1	3115.2	3177.1	3650.7	4306.6	4960.9	5030.9	5499.7
27.5°	5122.1	5087.9	4764.0	4142.3	3611.7	3365.9	3780.9	4419.0	5006.5	5078.1	5587.6
30°	6127.9	6168.6	5797.5	5110.7	4332.7	3715.8	3903.0	4461.3	5047.2	5122.1	5699.9
32.5°	7060.6	7109.4	6783.9	6103.5	5182.3	4321.3	4113.0	4625.7	5218.1	5294.6	5887.1
35°	7794.6	7801.1	7555.4	7013.4	6110.0	5057.0	4567.1	4913.7	5449.2	5538.7	6085.6
37.5°	8468.4	8458.7	8170.6	7703.5	6883.1	5787.8	5138.4	5245.8	5712.9	5805.7	6372.1
40°	8968.1	8974.6	8881.9	8442.4	7604.2	6463.2	5590.8	5556.6	6155.6	6300.5	6788.7
42.5°	9301.8	9362.0	9407.6	9184.6	8510.8	7294.9	6285.8	6222.3	6923.8	7044.3	7377.9
45°	9572.0	9679.4	9907.2	9895.8	9381.5	8315.4	7239.6	7109.4	8012.7	8141.3	8128.3
47.5°	9768.9	9877.9	10255.6	10483.4	10200.2	9305.0	8439.1	8326.8	9313.2	9453.1	8956.7
50°	9869.8	10000.0	10481.8	10922.9	10839.9	10258.8	9806.3	9812.8	10883.8	11018.9	9917.0
52.5°	9633.8	9803.1	10602.2	11396.5	11557.6	11171.9	11087.3	11302.1	12281.9	12397.5	10784.5
55°	8880.2	9093.4	10437.8	11800.1	12389.3	12249.4	12542.3	12869.5	13810.2	13885.1	11674.8
57.5°	8403.3	8629.6	9952.8	12143.6	13388.7	13603.5	14067.4	14306.7	15387.4	15577.8	12697.0
60°	8001.3	8178.7	9554.1	12216.8	14404.3	15260.4	15711.3	15958.7	17334.0	17457.7	13821.6
62.5°	7332.4	7535.8	8880.2	11705.7	14915.4	16586.9	17521.2	17410.5	18839.5	18925.8	14511.7
65°	6256.5	6274.4	7513.0	10421.6	14388.0	17447.9	18792.3	18328.5	19559.0	19617.5	14458.0
67.5°	4669.6	4842.1	5779.6	8191.7	12153.3	16712.3	19204.1	18352.9	19104.8	18942.1	13310.6
70°	3007.8	3139.7	3917.6	5680.3	8763.0	13947.0	17838.6	17094.8	16767.6	16406.3	10895.2
72.5°	1388.3	1557.6	2327.5	3245.4	5196.9	9934.9	14480.8	13888.4	12068.7	11176.8	6925.5
75°	605.5	647.8	1149.1	1712.2	2436.5	5253.9	9547.5	8621.4	5450.9	4978.8	2771.8
77.5°	369.5	397.1	602.2	918.0	957.0	2002.0	5143.2	3761.4	1684.6	1486.0	752.0
80°	250.7	281.6	437.8	480.1	327.1	558.3	1930.3	1004.2	340.2	325.5	161.1
82.5°	122.1	154.6	323.9	268.6	141.6	179.0	561.5	214.8	99.3	92.8	57.0
85°	17.9	30.9	182.3	175.8	63.5	42.3	99.3	53.7	34.2	32.6	26.0
87.5°	0.0	0.0	61.8	27.7	6.5	6.5	11.4	11.4	13.0	11.4	13.0
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°	4217.1	4217.1	4217.1	4217.1	4217.1	4217.1	4217.1	4217.1	4217.1	4217.1	4217.1
2.5°	4249.7	4257.8	4226.9	4182.9	4135.7	4088.5	4021.8	3961.6	3925.8	3946.9	3894.9
5°	4326.2	4319.7	4238.3	4104.8	3927.4	3714.2	3502.6	3321.9	3263.4	3175.5	3165.7
7.5°	4432.0	4414.1	4241.5	3935.6	3535.2	3134.8	2744.1	2485.4	2337.2	2211.9	2215.2
10°	4580.1	4528.0	4204.1	3637.7	2978.5	2374.7	1876.6	1534.8	1386.7	1339.5	1302.1
12.5°	4733.1	4632.2	4099.9	3235.7	2319.3	1622.7	1141.0	932.6	841.5	812.2	808.9
15°	4869.8	4710.3	3917.6	2752.3	1686.2	1036.8	778.0	709.6	698.2	699.9	698.2
17.5°	5004.9	4772.1	3665.4	2239.6	1145.8	743.8	668.9	652.7	657.6	664.1	662.4
20°	5117.2	4785.2	3343.1	1709.0	810.5	652.7	628.3	625.0	629.9	634.8	634.8
22.5°	5239.3	4794.9	2960.6	1183.3	662.4	607.1	594.1	594.1	600.6	607.1	608.7
25°	5330.4	4741.2	2503.3	849.6	584.3	563.2	556.6	558.3	564.8	568.0	566.4
27.5°	5345.1	4589.9	2018.2	651.0	530.6	509.4	502.9	509.4	501.3	506.2	502.9
30°	5358.1	4397.8	1526.7	548.5	481.8	449.2	439.5	429.7	423.2	415.0	413.4
32.5°	5398.8	4171.6	1114.9	493.2	436.2	400.4	377.6	349.9	328.8	322.3	320.6
35°	5416.7	3899.7	818.7	449.2	395.5	356.4	315.8	276.7	245.8	234.4	242.5
37.5°	5485.0	3636.1	634.8	416.7	359.7	310.9	258.8	210.0	180.7	174.2	177.4
40°	5625.0	3349.6	532.2	389.0	328.8	268.6	205.1	157.9	138.3	131.8	130.2
42.5°	5849.6	3064.8	473.6	363.0	297.9	226.2	161.1	123.7	107.4	102.5	102.5
45°	6123.1	2791.3	432.9	335.3	265.3	182.3	127.0	99.3	89.5	86.3	86.3
47.5°	6482.8	2552.1	398.8	307.6	229.5	144.9	102.5	86.3	79.8	81.4	83.0
50°	6847.3	2374.7	361.3	276.7	188.8	118.8	87.9	76.5	74.9	76.5	76.5
52.5°	7122.4	2270.5	310.9	234.4	148.1	99.3	78.1	71.6	70.0	66.7	66.7
55°	7493.5	2247.7	247.4	190.4	117.2	83.0	70.0	65.1	60.2	57.0	55.3
57.5°	7970.4	2273.8	190.4	148.1	91.1	68.4	61.8	53.7	47.2	40.7	40.7
60°	8266.6	2215.2	148.1	113.9	66.7	55.3	47.2	39.1	30.9	26.0	24.4
62.5°	8172.2	1967.8	117.2	84.6	47.2	40.7	30.9	26.0	17.9	13.0	11.4
65°	7685.6	1588.5	94.4	58.6	34.2	24.4	16.3	16.3	8.1	1.6	0.0
67.5°	6726.9	1176.8	74.9	39.1	19.5	11.4	8.1	4.9	0.0	0.0	0.0
70°	5475.3	849.6	58.6	24.4	11.4	8.1	3.3	1.6	0.0	0.0	0.0
72.5°	3476.6	486.7	45.6	14.6	8.1	3.3	0.0	0.0	0.0	0.0	0.0
75°	1344.4	190.4	30.9	9.8	3.3	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	380.9	89.5	17.9	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	99.3	39.1	9.8	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	47.2	16.3	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	27.7	6.5	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	13.0	1.6	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)