

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: P458043

Luminaire Tested: **GLAN-SA9B-830-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458043
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-SA9B-830-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 800mA 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: 32094 lumens
Efficiency: N/A
Efficacy: 88.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

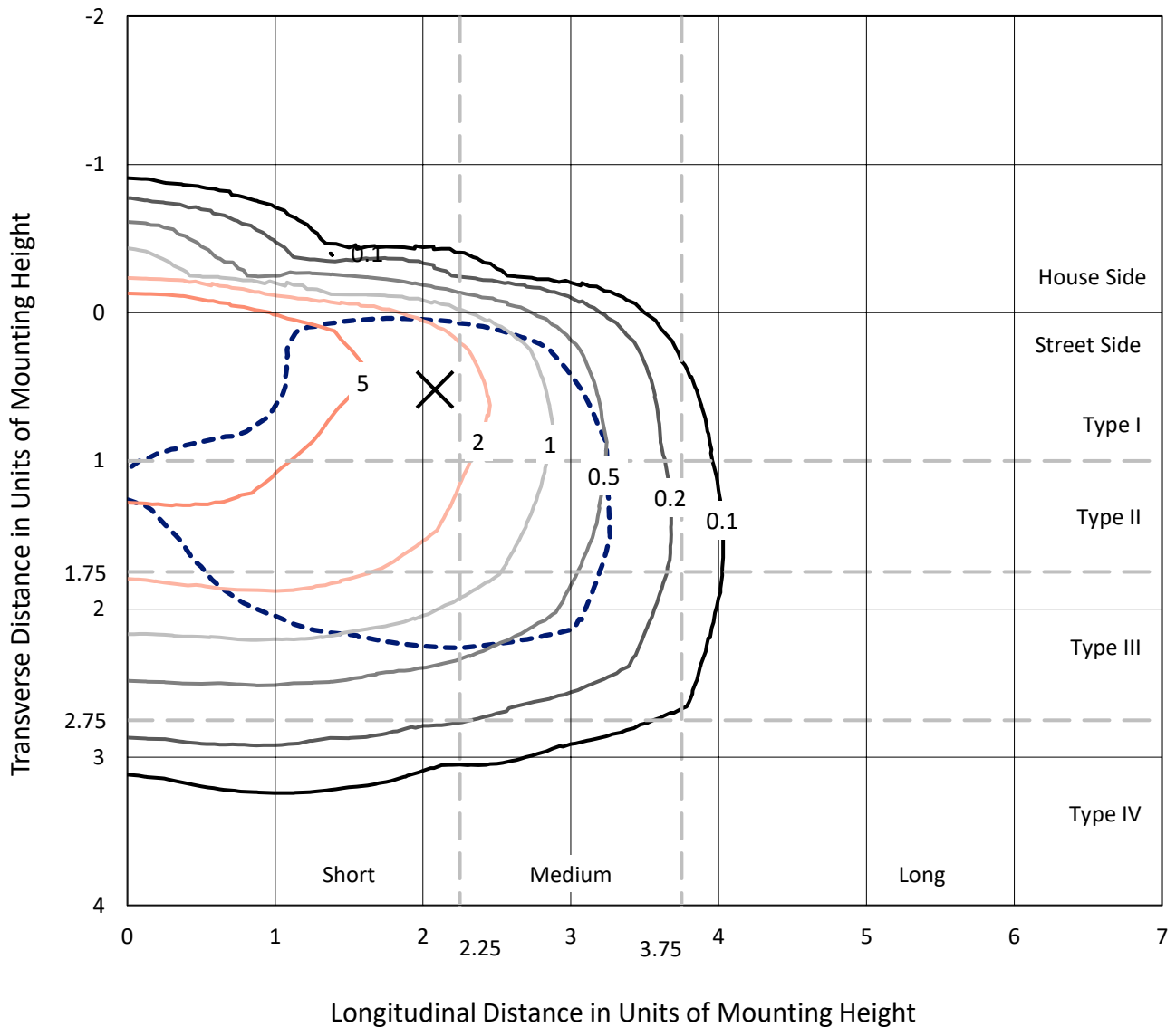
Input Watts (W): 364
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

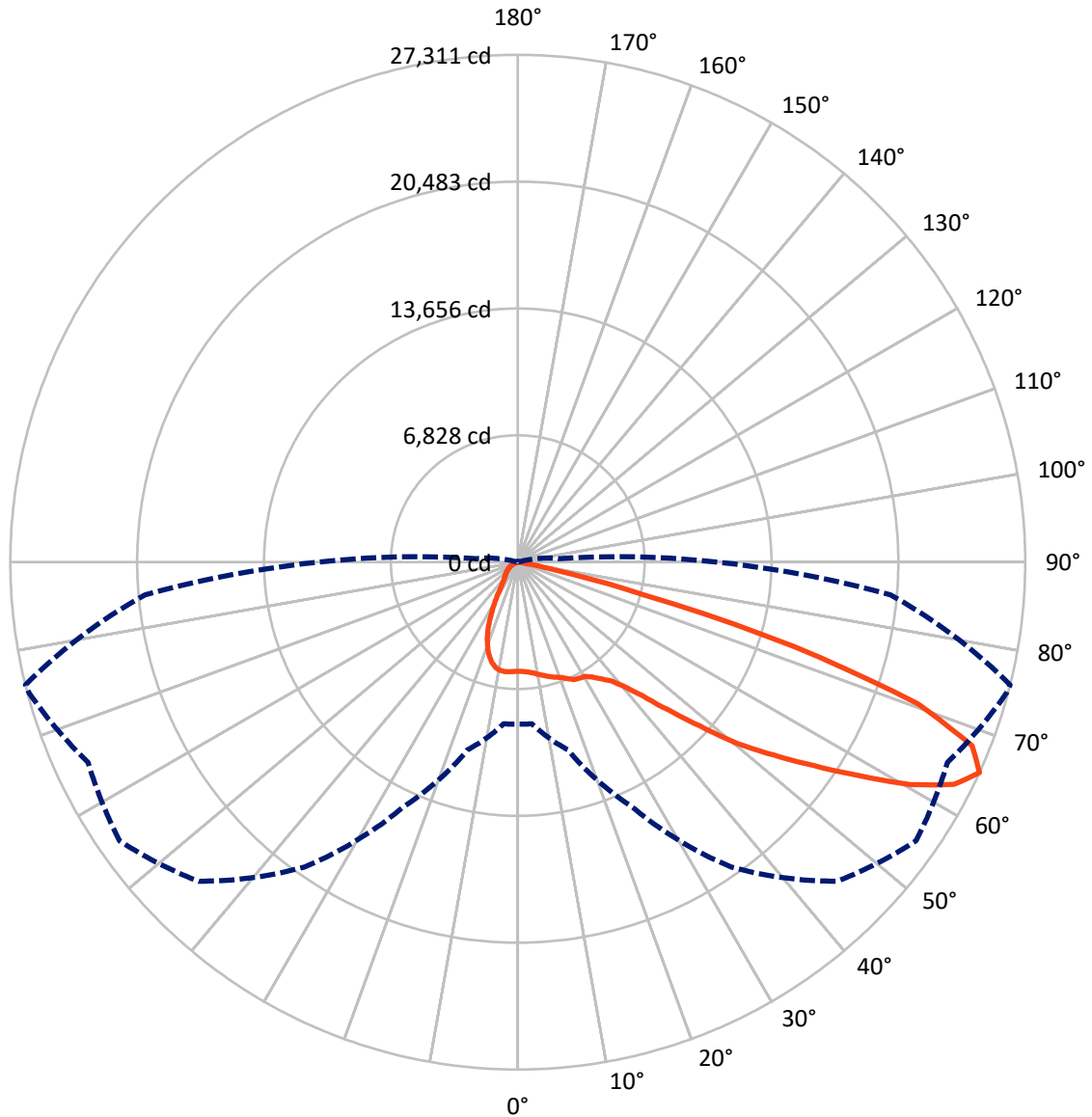
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 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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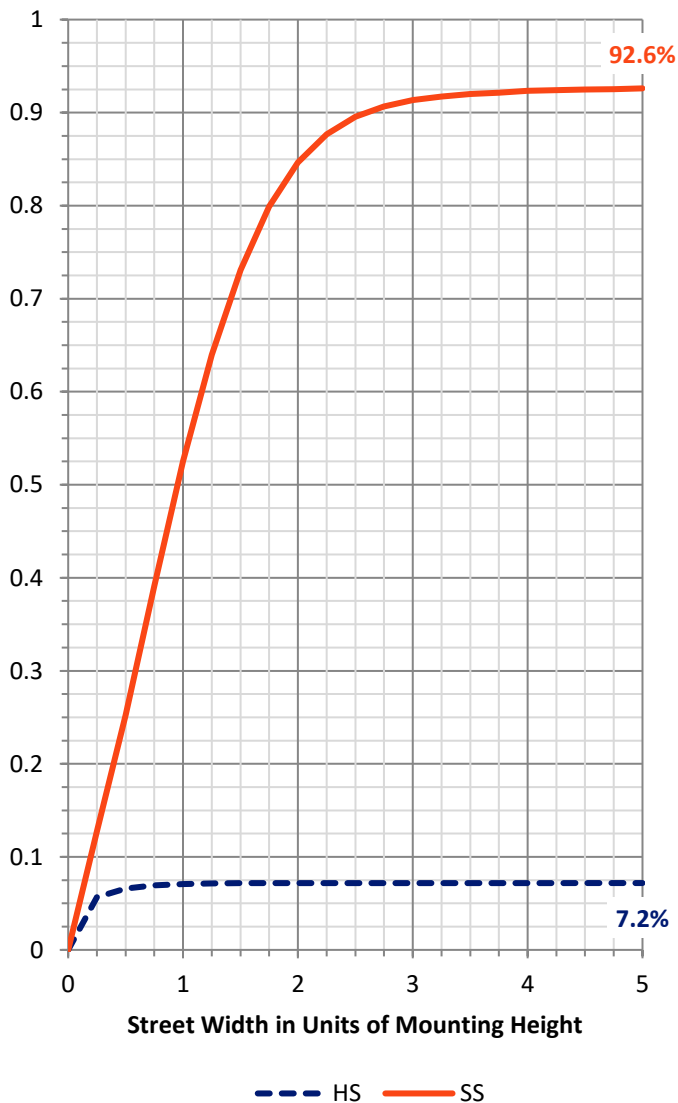
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2317.8	0.0	2317.8
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	29776.2	0.0	29776.2
	% Fixture	92.8	0.0	92.8
Total	Lumens	32094.0	0.0	32094.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	483.6	1.5
10°-20°	1076.8	3.4
20°-30°	1735.2	5.4
30°-40°	3017.2	9.4
40°-50°	4985.7	15.5
50°-60°	7701.8	24.0
60°-70°	9405.0	29.3
70°-80°	3569.5	11.1
80°-90°	119.1	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°	32094.0	100.0
0°-180°	32094.0	100.0

Coefficient of Utilization



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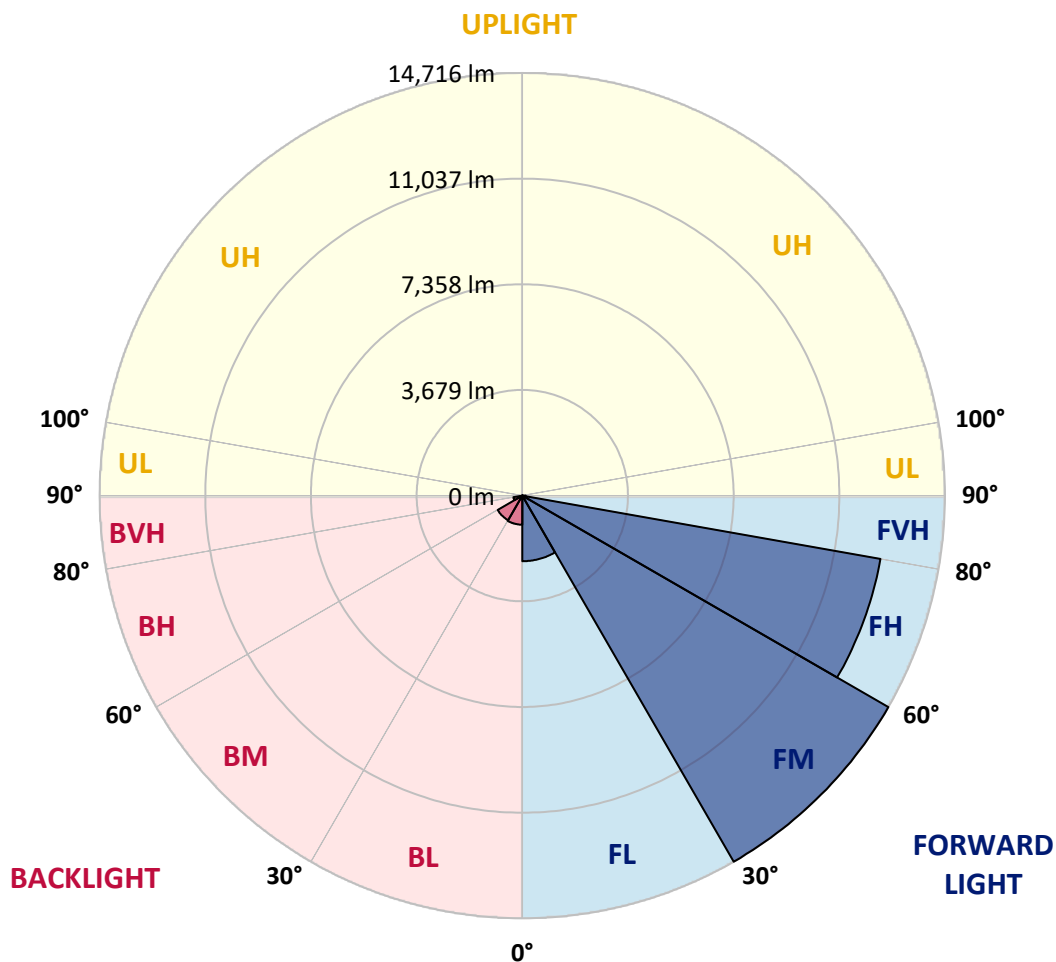
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2283.1	7.1			
FM (30°-60°)	14715.6	45.9			
FH (60°-80°)	12660.0	39.4			G5
FVH (80°-90°)	117.5	0.4			G2/225
BL (0°-30°)	1012.6	3.2	B3/2500		
BM (30°-60°)	989.1	3.1	B1/1000		
BH (60°-80°)	314.5	1.0	B1/500		G1/500
BVH (80°-90°)	1.6	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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	5871.0	5871.0	5871.0	5871.0	5871.0	5871.0	5871.0	5871.0	5871.0	5871.0	5871.0
2.5°	5610.4	5612.7	5626.3	5660.3	5712.4	5755.5	5791.7	5850.6	5891.4	5895.9	5909.5
5°	5223.0	5195.8	5223.0	5311.3	5390.6	5510.7	5658.0	5805.3	5936.7	5945.8	6009.2
7.5°	4787.9	4810.6	4853.6	4944.3	5093.8	5277.3	5490.3	5753.2	6002.4	6025.1	6149.7
10°	4346.0	4395.9	4466.1	4604.4	4812.8	5050.8	5340.8	5716.9	6106.7	6138.4	6353.7
12.5°	3938.2	3960.8	4046.9	4232.8	4491.1	4826.4	5227.5	5696.5	6222.2	6260.8	6571.2
15°	3625.5	3654.9	3729.7	3897.4	4185.2	4615.7	5134.6	5689.7	6335.5	6389.9	6788.7
17.5°	3566.6	3584.7	3616.4	3729.7	3981.2	4448.0	5050.8	5687.5	6444.3	6510.0	6990.4
20°	3809.0	3793.2	3761.4	3750.1	3888.3	4318.9	4989.6	5705.6	6548.5	6623.3	7203.4
22.5°	4416.3	4436.7	4250.9	4031.1	3985.8	4298.5	4980.5	5791.7	6713.9	6802.3	7441.3
25°	5705.6	5549.3	5259.2	4733.5	4337.0	4423.1	5082.5	5995.6	6906.5	7004.0	7656.6
27.5°	7130.9	7083.3	6632.4	5766.8	5028.1	4685.9	5263.7	6152.0	6970.0	7069.7	7778.9
30°	8531.2	8587.9	8071.2	7115.0	6031.9	5173.1	5433.7	6210.9	7026.6	7130.9	7935.3
32.5°	9829.6	9897.6	9444.4	8497.2	7214.7	6016.0	5726.0	6439.8	7264.6	7371.1	8195.9
35°	10851.5	10860.6	10518.4	9763.9	8506.3	7040.2	6358.2	6840.8	7586.3	7710.9	8472.3
37.5°	11789.6	11776.0	11375.0	10724.6	9582.6	8057.6	7153.5	7303.1	7953.4	8082.6	8871.1
40°	12485.3	12494.3	12365.2	11753.4	10586.4	8998.0	7783.5	7735.9	8569.7	8771.4	9451.2
42.5°	12949.8	13033.6	13097.1	12786.6	11848.5	10155.9	8751.0	8662.6	9639.3	9806.9	10271.4
45°	13325.9	13475.5	13792.7	13776.8	13060.8	11576.6	10078.8	9897.6	11155.2	11334.2	11316.0
47.5°	13600.1	13751.9	14277.6	14594.8	14200.6	12954.3	11748.8	11592.5	12965.6	13160.5	12469.4
50°	13740.6	13921.9	14592.6	15206.6	15091.1	14282.1	13652.2	13661.3	15152.3	15340.3	13806.3
52.5°	13412.0	13647.7	14760.2	15866.0	16090.3	15553.3	15435.5	15734.6	17098.7	17259.6	15014.0
55°	12362.9	12659.7	14531.4	16428.0	17248.2	17053.4	17461.2	17916.7	19226.4	19330.6	16253.5
57.5°	11699.0	12013.9	13856.1	16906.1	18639.5	18938.6	19584.4	19917.5	21422.1	21687.2	17676.5
60°	11139.3	11386.3	13301.0	17008.0	20053.5	21245.3	21873.0	22217.4	24132.1	24304.3	19242.3
62.5°	10208.0	10491.2	12362.9	16296.5	20765.0	23092.1	24392.7	24238.6	26228.1	26348.2	20203.0
65°	8710.2	8735.1	10459.5	14508.7	20030.8	24290.7	26162.4	25516.6	27229.6	27311.2	20128.2
67.5°	6500.9	6741.1	8046.3	11404.4	16919.7	23266.5	26735.7	25550.6	26597.5	26370.9	18530.8
70°	4187.4	4371.0	5454.1	7908.1	12199.8	19416.7	24834.6	23799.0	23343.6	22840.5	15168.1
72.5°	1932.8	2168.5	3240.3	4518.3	7235.1	13831.2	20160.0	19335.2	16801.8	15560.1	9641.5
75°	842.9	901.8	1599.7	2383.8	3392.1	7314.4	13291.9	12002.6	7588.6	6931.5	3858.9
77.5°	514.4	552.9	838.4	1278.0	1332.4	2787.1	7160.3	5236.6	2345.2	2068.8	1046.9
80°	349.0	392.0	609.5	668.4	455.5	777.2	2687.4	1398.1	473.6	453.2	224.3
82.5°	169.9	215.3	450.9	373.9	197.1	249.3	781.7	299.1	138.2	129.2	79.3
85°	24.9	43.1	253.8	244.7	88.4	58.9	138.2	74.8	47.6	45.3	36.3
87.5°	0.0	0.0	86.1	38.5	9.1	9.1	15.9	15.9	18.1	15.9	18.1
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°	5871.0	5871.0	5871.0	5871.0	5871.0	5871.0	5871.0	5871.0	5871.0	5871.0	5871.0
2.5°	5916.3	5927.7	5884.6	5823.4	5757.7	5692.0	5599.1	5515.3	5465.4	5494.9	5422.4
5°	6022.8	6013.8	5900.5	5714.7	5467.7	5170.8	4876.3	4624.8	4543.2	4420.8	4407.2
7.5°	6170.1	6145.2	5905.0	5479.0	4921.6	4364.2	3820.4	3460.1	3253.9	3079.4	3083.9
10°	6376.3	6303.8	5852.9	5064.3	4146.6	3306.0	2612.6	2136.8	1930.6	1864.9	1812.7
12.5°	6589.3	6448.8	5707.9	4504.7	3228.9	2259.1	1588.4	1298.4	1171.5	1130.7	1126.2
15°	6779.7	6557.6	5454.1	3831.7	2347.5	1443.4	1083.1	987.9	972.1	974.3	972.1
17.5°	6967.7	6643.7	5102.9	3117.9	1595.2	1035.5	931.3	908.6	915.4	924.5	922.2
20°	7124.1	6661.8	4654.2	2379.2	1128.4	908.6	874.6	870.1	876.9	883.7	883.7
22.5°	7294.0	6675.4	4121.7	1647.3	922.2	845.2	827.1	827.1	836.1	845.2	847.5
25°	7420.9	6600.6	3485.0	1182.8	813.5	784.0	774.9	777.2	786.3	790.8	788.5
27.5°	7441.3	6389.9	2809.7	906.4	738.7	709.2	700.2	709.2	697.9	704.7	700.2
30°	7459.4	6122.5	2125.4	763.6	670.7	625.4	611.8	598.2	589.1	577.8	575.5
32.5°	7516.1	5807.6	1552.2	686.6	607.3	557.4	525.7	487.2	457.7	448.7	446.4
35°	7541.0	5429.2	1139.8	625.4	550.6	496.2	439.6	385.2	342.2	326.3	337.6
37.5°	7636.2	5062.1	883.7	580.1	500.8	432.8	360.3	292.3	251.5	242.5	247.0
40°	7831.0	4663.3	741.0	541.6	457.7	373.9	285.5	219.8	192.6	183.5	181.3
42.5°	8143.7	4266.7	659.4	505.3	414.7	315.0	224.3	172.2	149.6	142.8	142.8
45°	8524.4	3886.1	602.7	466.8	369.3	253.8	176.7	138.2	124.6	120.1	120.1
47.5°	9025.2	3553.0	555.2	428.3	319.5	201.7	142.8	120.1	111.0	113.3	115.6
50°	9532.8	3306.0	503.0	385.2	262.8	165.4	122.4	106.5	104.2	106.5	106.5
52.5°	9915.7	3161.0	432.8	326.3	206.2	138.2	108.8	99.7	97.4	92.9	92.9
55°	10432.3	3129.2	344.4	265.1	163.1	115.6	97.4	90.6	83.8	79.3	77.0
57.5°	11096.2	3165.5	265.1	206.2	126.9	95.2	86.1	74.8	65.7	56.6	56.6
60°	11508.6	3083.9	206.2	158.6	92.9	77.0	65.7	54.4	43.1	36.3	34.0
62.5°	11377.2	2739.5	163.1	117.8	65.7	56.6	43.1	36.3	24.9	18.1	15.9
65°	10699.7	2211.5	131.4	81.6	47.6	34.0	22.7	22.7	11.3	2.3	0.0
67.5°	9365.1	1638.3	104.2	54.4	27.2	15.9	11.3	6.8	0.0	0.0	0.0
70°	7622.6	1182.8	81.6	34.0	15.9	11.3	4.5	2.3	0.0	0.0	0.0
72.5°	4840.0	677.5	63.4	20.4	11.3	4.5	0.0	0.0	0.0	0.0	0.0
75°	1871.7	265.1	43.1	13.6	4.5	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	530.2	124.6	24.9	6.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	138.2	54.4	13.6	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	65.7	22.7	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	38.5	9.1	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	18.1	2.3	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)