

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: P532544

Luminaire Tested: **GLAN-SA7D-830-U-AFL-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P532544  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA7D-830-U-AFL-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 38636 lumens  
Efficiency: N/A  
Efficacy: 89.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

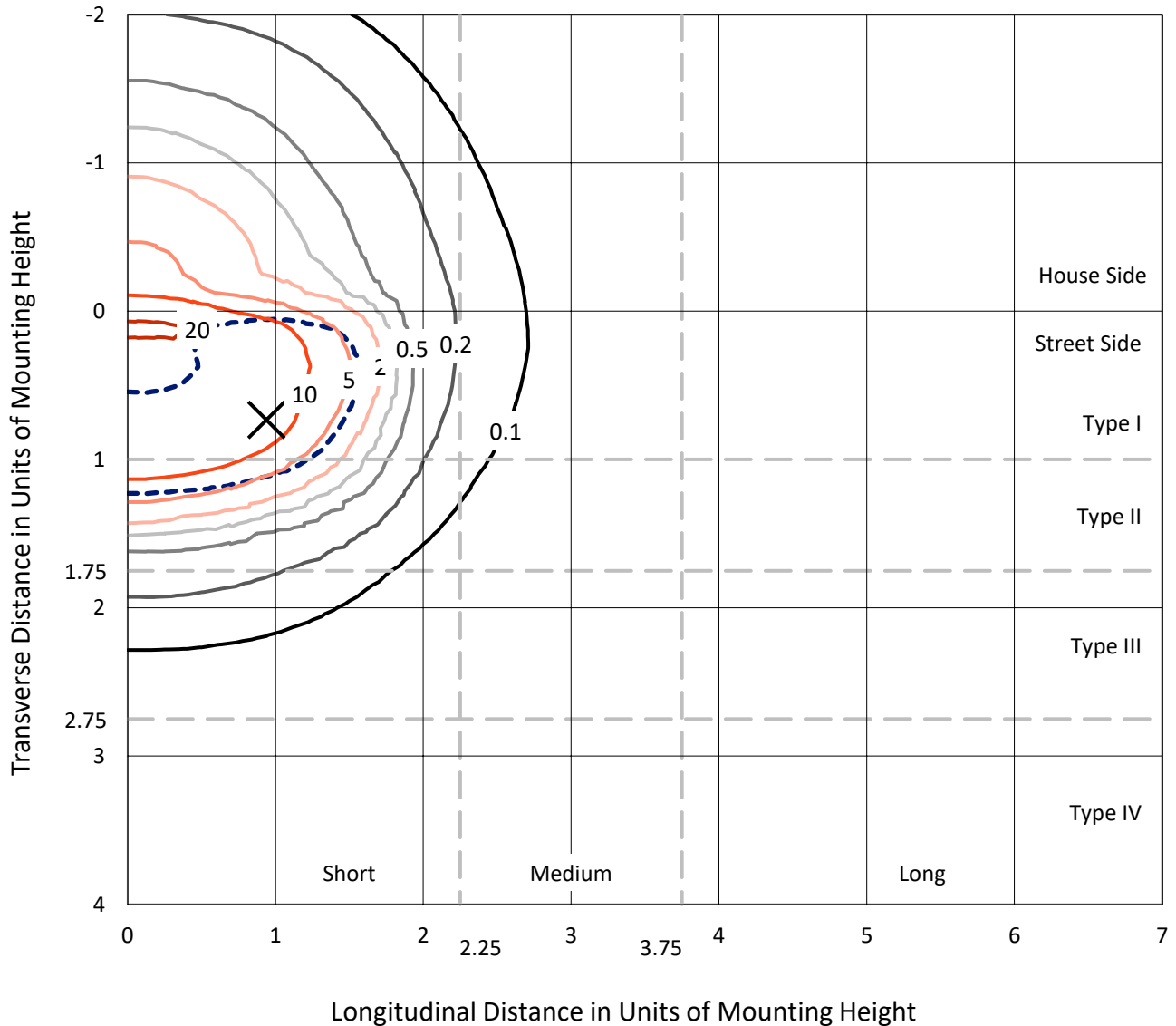
Input Watts (W): 433  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

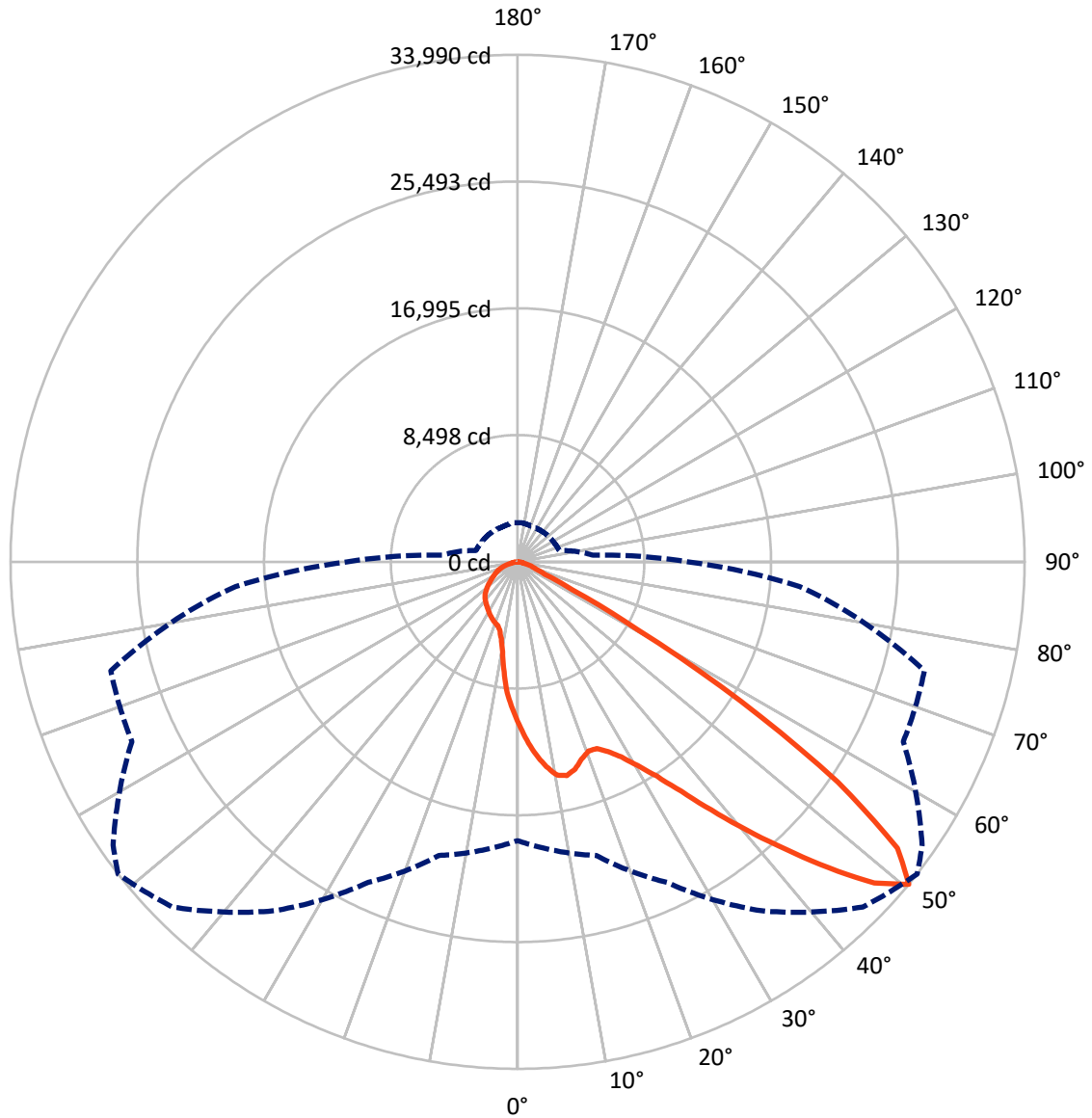
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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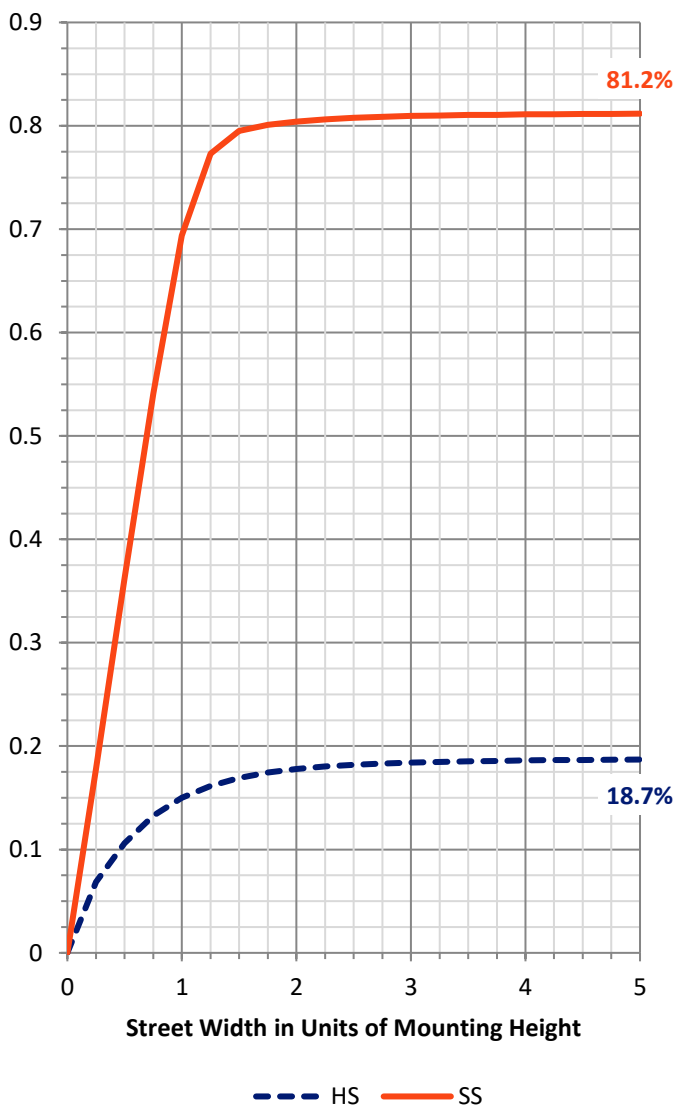
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7262.6	0.0	7262.6
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	31373.3	0.0	31373.3
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	38636.0	0.0	38636.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1003.8	2.6
10°-20°	2690.4	7.0
20°-30°	4532.0	11.7
30°-40°	7605.0	19.7
40°-50°	11633.8	30.1
50°-60°	8482.0	22.0
60°-70°	1887.7	4.9
70°-80°	680.9	1.8
80°-90°	120.5	0.3
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°	38636.0	100.0
0°-180°	38636.0	100.0

**Coefficient of Utilization**

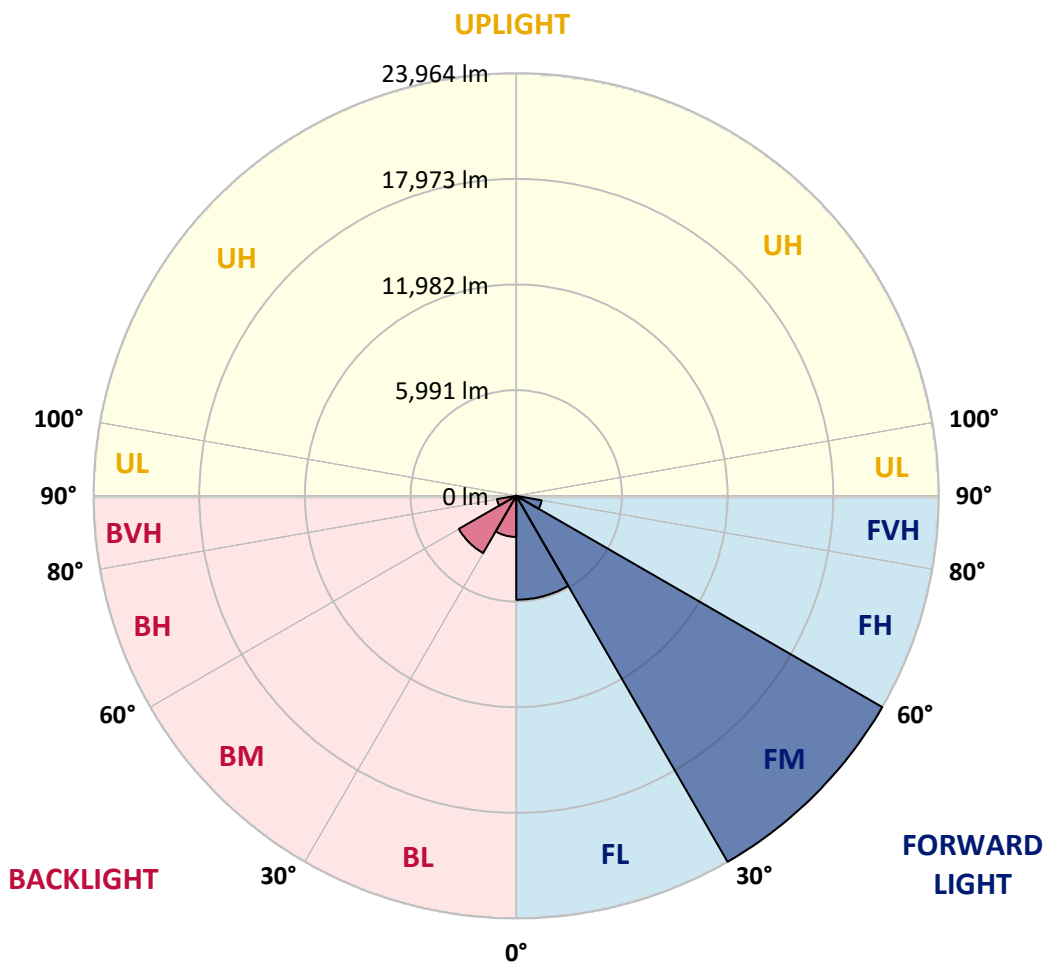


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5893.3	15.3			
FM (30°-60°)	23964.0	62.0			
FH (60°-80°)	1462.0	3.8			G1/1800
FVH (80°-90°)	54.0	0.1			G1/100
BL (0°-30°)	2332.9	6.0	B3/2500		
BM (30°-60°)	3756.7	9.7	B3/5000		
BH (60°-80°)	1106.5	2.9	B3/2500		G3/2500
BVH (80°-90°)	66.5	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	10890.8	10890.8	10890.8	10890.8	10890.8	10890.8	10890.8	10890.8	10890.8	10890.8	10890.8
2.5°	12823.2	12576.4	12604.3	12427.4	12236.5	12180.6	11985.1	11798.8	11659.1	11361.1	11086.4
5°	14015.2	13940.7	13828.9	13689.2	13544.9	13191.0	12990.8	12758.0	12245.8	11784.8	11328.5
7.5°	14187.4	14173.5	14234.0	14234.0	14285.2	14150.2	13866.2	13703.2	13158.4	12408.8	11561.3
10°	12976.8	13018.7	13312.1	13693.9	14224.7	14592.5	14546.0	14504.1	13908.1	12883.7	11836.1
12.5°	12013.0	11919.9	12092.1	12418.1	13214.3	14103.6	14704.3	14708.9	14555.3	13642.7	12036.3
15°	11468.2	11533.4	11580.0	11733.6	12334.3	13363.3	14420.2	14732.2	15407.4	14178.1	12352.9
17.5°	11817.4	11598.6	11589.3	11626.5	11933.8	12706.8	13894.1	14429.6	15873.0	14867.2	12744.0
20°	12273.7	12269.1	12138.7	12092.1	12087.5	12776.6	13549.5	14275.9	16119.8	15761.2	13139.8
22.5°	13074.6	13074.6	12860.4	12758.0	12539.1	13102.5	13596.1	14089.7	16529.5	16375.8	13330.7
25°	14415.6	14196.7	13828.9	13577.5	13451.8	13652.0	14089.7	14532.0	16888.0	17027.7	13726.5
27.5°	15654.1	15309.6	15128.0	14695.0	14527.3	14410.9	14811.4	15258.4	17307.1	18042.8	13940.7
30°	17060.3	16999.8	16673.8	16115.1	15700.7	15486.5	15854.4	16296.7	18075.4	19081.1	14434.2
32.5°	19574.7	19025.2	18582.9	17898.4	17223.3	16767.0	17130.2	17423.5	19351.2	20166.0	14974.3
35°	22289.2	22112.3	21348.7	20114.8	19081.1	18671.4	18885.5	19104.4	20836.5	21823.6	15882.3
37.5°	24957.2	24715.1	24086.5	23048.2	21791.0	20957.5	21111.2	21367.3	22503.4	24058.6	16990.5
40°	26875.6	26577.6	26261.0	26107.3	24859.4	23718.7	23630.2	23695.4	24757.0	26153.9	18219.7
42.5°	27015.3	27383.1	27480.9	28100.2	27806.8	26870.9	26326.1	26340.1	26908.2	28225.9	19462.9
45°	26721.9	26382.0	27103.7	28793.9	29762.4	30200.1	29282.8	29166.4	28239.8	29427.2	20082.2
47.5°	23644.2	23737.3	24957.2	27629.9	30428.3	32383.9	32169.7	31783.2	28952.2	29385.3	19984.4
50°	18690.0	19253.4	20384.8	23714.0	28565.8	32728.4	33990.2	33096.3	28528.5	28230.5	18988.0
52.5°	12446.0	12678.8	13423.8	17721.5	22969.0	29254.9	31895.0	32099.8	28137.4	26717.3	17726.1
55°	5540.9	5522.3	6569.9	9256.5	14410.9	22261.3	26060.7	27308.6	26633.5	25176.1	16496.9
57.5°	2346.7	2425.9	2854.2	3999.7	7086.7	13433.1	17656.3	18750.5	20482.6	20673.5	12655.5
60°	1587.8	1597.1	1713.5	2002.2	2966.0	6309.1	9261.2	10574.2	11812.8	11729.0	6714.2
62.5°	1247.9	1280.5	1368.9	1485.3	1760.0	2863.6	4144.0	4875.0	4954.2	4167.3	2546.9
65°	1066.3	1070.9	1159.4	1257.2	1378.2	1666.9	1997.5	2034.8	2058.0	1983.5	1871.8
67.5°	880.0	889.3	959.2	1070.9	1182.7	1275.8	1368.9	1415.5	1522.6	1732.1	1704.2
70°	698.4	712.4	772.9	866.1	968.5	1024.4	1140.8	1182.7	1280.5	1443.4	1508.6
72.5°	530.8	535.5	586.7	651.9	745.0	800.9	898.6	945.2	1010.4	1150.1	1210.6
75°	381.8	395.8	433.0	465.6	479.6	516.8	610.0	661.2	754.3	814.8	819.5
77.5°	200.2	209.5	218.8	218.8	265.4	335.2	395.8	423.7	488.9	535.5	512.2
80°	79.2	83.8	107.1	144.3	186.2	242.1	284.0	298.0	353.9	381.8	395.8
82.5°	46.6	51.2	69.8	102.4	135.0	172.3	204.9	218.8	256.1	288.7	298.0
85°	23.3	27.9	41.9	65.2	88.5	107.1	102.4	97.8	97.8	93.1	97.8
87.5°	9.3	9.3	14.0	14.0	14.0	18.6	23.3	23.3	23.3	27.9	27.9
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°	10890.8	10890.8	10890.8	10890.8	10890.8	10890.8	10890.8	10890.8	10890.8	10890.8	10890.8
2.5°	10904.8	10718.6	10546.3	10229.7	9885.1	9787.3	9386.9	9242.6	9140.1	9019.1	8981.8
5°	10960.7	10713.9	10159.8	9521.9	9014.4	8362.5	7934.2	7473.2	7138.0	7054.1	7030.9
7.5°	11077.1	10653.4	9698.9	8735.0	7696.7	6812.0	6136.9	5773.7	5452.4	5433.8	5401.2
10°	11207.5	10471.8	9196.0	7682.7	6355.7	5536.2	5131.1	4972.8	4893.7	4875.0	4865.7
12.5°	11314.6	10434.5	8632.6	6658.4	5405.8	4912.3	4791.2	4777.3	4809.9	4819.2	4837.8
15°	11361.1	10285.5	7952.8	5741.1	4814.5	4632.9	4684.1	4740.0	4763.3	4823.8	4777.3
17.5°	11449.6	10094.6	7114.7	5014.7	4483.9	4516.5	4605.0	4670.2	4707.4	4749.3	4688.8
20°	11496.2	9922.4	6327.8	4581.7	4367.5	4428.0	4549.1	4600.3	4646.9	4665.5	4595.7
22.5°	11454.2	9568.5	5634.0	4232.5	4255.8	4334.9	4442.0	4497.9	4470.0	4395.5	4353.5
25°	11342.5	9070.3	4912.3	4009.0	4097.5	4237.1	4321.0	4279.0	4227.8	4185.9	4172.0
27.5°	11337.8	8460.3	4390.8	3804.1	3962.4	4153.3	4125.4	4088.1	4111.4	4078.8	4041.6
30°	11361.1	7869.0	3962.4	3687.7	3864.6	3957.8	3990.4	3953.1	3981.0	3920.5	3939.1
32.5°	11240.1	7291.6	3683.1	3552.7	3748.2	3743.6	3850.7	3878.6	3813.4	3687.7	3706.3
35°	11291.3	6826.0	3445.6	3492.1	3617.9	3617.9	3701.7	3669.1	3496.8	3422.3	3440.9
37.5°	11645.2	6369.7	3329.2	3408.3	3492.1	3529.4	3501.5	3361.8	3319.9	3319.9	3329.2
40°	11980.4	5978.6	3259.3	3389.7	3375.7	3399.0	3194.2	3208.1	3208.1	3212.8	3189.5
42.5°	12278.4	5713.2	3203.5	3278.0	3301.2	3180.2	3054.5	3040.5	3073.1	3068.4	3049.8
45°	12385.5	5494.3	3124.3	3152.2	3170.9	2970.7	2910.1	2882.2	2919.4	2933.4	2952.0
47.5°	11975.7	5312.7	3035.8	2980.0	2942.7	2812.3	2733.2	2682.0	2728.5	2807.7	2826.3
50°	11449.6	5075.3	2896.2	2789.1	2709.9	2654.0	2598.2	2546.9	2579.5	2635.4	2621.4
52.5°	10672.0	4702.8	2719.2	2607.5	2472.4	2486.4	2435.2	2407.3	2425.9	2425.9	2411.9
55°	9563.8	3864.6	2421.2	2342.1	2230.3	2267.6	2276.9	2239.6	2202.4	2235.0	2207.0
57.5°	6528.0	2728.5	2160.5	2160.5	2048.7	2099.9	2095.3	2006.8	1918.4	1927.7	1909.0
60°	3776.2	2174.4	1992.9	1974.2	1857.8	1899.7	1909.0	1848.5	1713.5	1722.8	1704.2
62.5°	2146.5	1857.8	1741.4	1713.5	1690.2	1727.4	1727.4	1648.3	1531.9	1541.2	1522.6
65°	1825.2	1722.8	1555.2	1550.5	1541.2	1550.5	1513.3	1429.5	1327.0	1285.1	1289.8
67.5°	1657.6	1592.4	1429.5	1387.5	1359.6	1355.0	1285.1	1206.0	1159.4	1122.1	1117.5
70°	1452.7	1401.5	1280.5	1224.6	1196.6	1131.5	1061.6	1010.4	945.2	926.6	945.2
72.5°	1150.1	1145.4	1098.9	1038.3	977.8	926.6	866.1	796.2	735.7	721.7	689.1
75°	796.2	805.5	814.8	805.5	754.3	689.1	619.3	563.4	488.9	447.0	437.7
77.5°	521.5	535.5	549.4	530.8	498.2	437.7	391.1	321.3	265.4	232.8	228.2
80°	381.8	400.4	409.7	395.8	358.5	312.0	260.7	204.9	163.0	135.0	135.0
82.5°	293.3	312.0	321.3	298.0	260.7	223.5	186.2	144.3	111.7	88.5	83.8
85°	102.4	97.8	116.4	121.1	144.3	135.0	111.7	83.8	65.2	46.6	41.9
87.5°	27.9	27.9	32.6	32.6	27.9	23.3	23.3	23.3	18.6	14.0	14.0
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)