

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: P319014

Luminaire Tested: **GAN-SA0C-730-U-T4W**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P319014  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA0C-730-U-T4W  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 63312 lumens  
Efficiency: N/A  
Efficacy: 113.5 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5

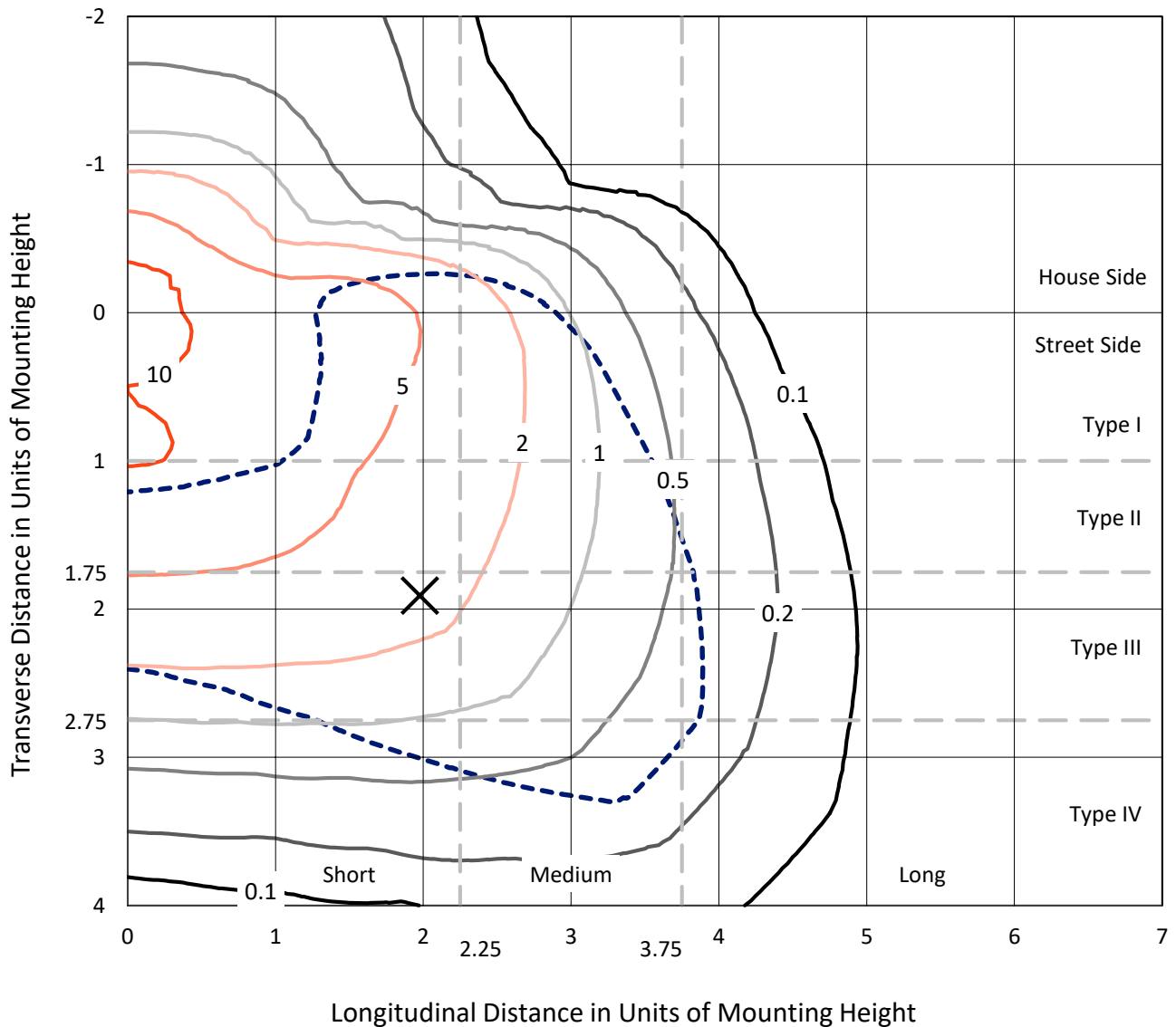
Input Watts (W): 558  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

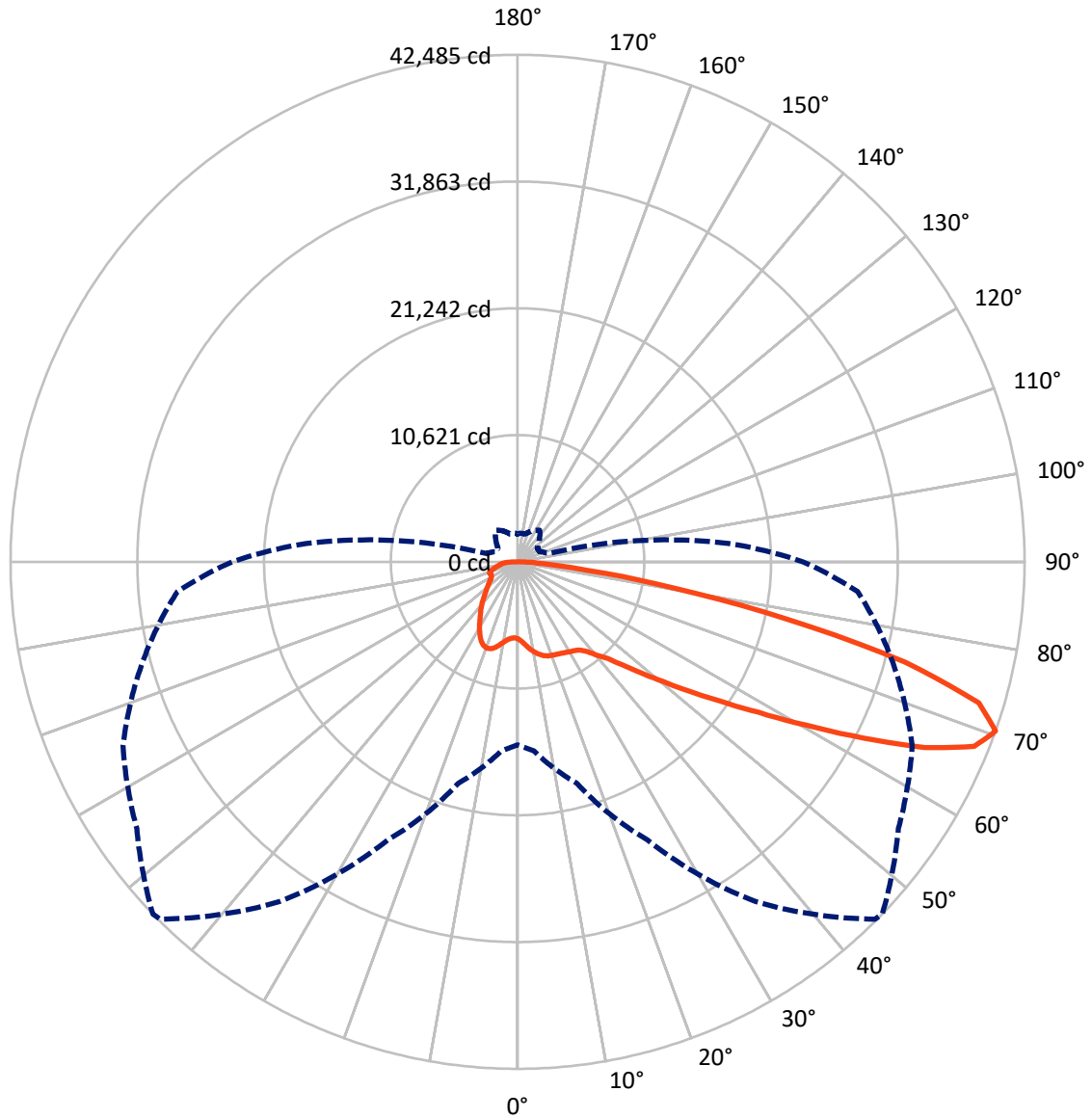
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.9 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	14510.9	0.0	14510.9
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	48801.1	0.0	48801.1
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	63312.0	0.0	63312.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	657.5	1.0
10°-20°	2190.8	3.5
20°-30°	3652.9	5.8
30°-40°	5183.6	8.2
40°-50°	7624.9	12.0
50°-60°	12912.7	20.4
60°-70°	18329.3	29.0
70°-80°	11135.2	17.6
80°-90°	1625.1	2.6
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°	63312.0	100.0
0°-180°	63312.0	100.0

**Coefficient of Utilization**

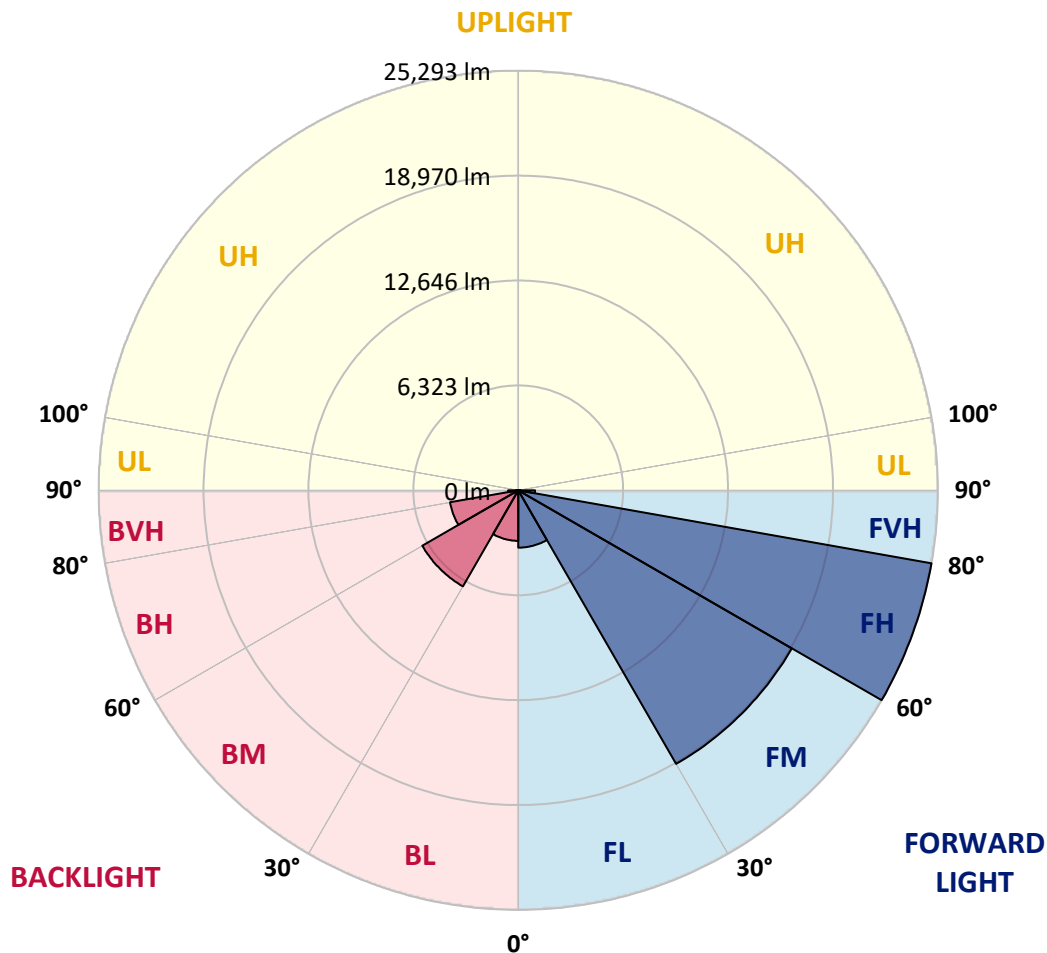


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3454.6	5.5			
FM (30°-60°)	19041.4	30.1			
FH (60°-80°)	25292.8	39.9			G5
FVH (80°-90°)	1012.3	1.6			G5
BL (0°-30°)	3046.6	4.8	B4/5000		
BM (30°-60°)	6679.8	10.6	B4/8500		
BH (60°-80°)	4171.8	6.6	B4/5000		G4/5000
BVH (80°-90°)	612.8	1.0			G4/750
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	6450.3	6450.3	6450.3	6450.3	6450.3	6450.3	6450.3	6450.3	6450.3	6450.3	6450.3
2.5°	6773.1	6777.4	6786.1	6764.4	6703.8	6686.4	6679.9	6617.1	6575.9	6515.3	6463.3
5°	7314.8	7319.1	7306.1	7245.4	7111.1	7011.4	7002.8	6859.8	6729.8	6591.1	6487.1
7.5°	7880.3	7886.8	7845.6	7730.8	7542.3	7368.9	7358.1	7163.1	6965.9	6755.8	6599.8
10°	8380.8	8354.8	8287.6	8127.3	7904.1	7691.8	7683.1	7479.4	7251.9	6998.4	6790.4
12.5°	8714.5	8692.8	8606.1	8411.1	8166.3	7971.3	7953.9	7765.4	7544.4	7267.1	7017.9
15°	8898.6	8913.8	8796.8	8575.8	8337.4	8172.8	8157.6	8023.3	7826.1	7546.6	7260.6
17.5°	8922.5	8935.5	8822.8	8603.9	8408.9	8296.3	8289.8	8200.9	8057.9	7789.3	7490.3
20°	8783.8	8792.5	8699.3	8519.4	8391.6	8356.9	8354.8	8315.8	8209.6	7971.3	7680.9
22.5°	8582.3	8588.8	8521.6	8391.6	8348.3	8402.4	8417.6	8402.4	8326.6	8103.4	7830.4
25°	8532.4	8528.1	8458.8	8326.6	8363.4	8478.3	8497.8	8504.3	8452.3	8257.3	8021.1
27.5°	8773.0	8757.8	8625.6	8413.3	8437.1	8575.8	8601.8	8664.6	8632.1	8460.9	8237.8
30°	9468.5	9442.5	9171.6	8742.6	8625.6	8697.1	8729.6	8829.3	8835.8	8692.8	8525.9
32.5°	10642.8	10610.3	10125.0	9358.0	8944.1	8820.6	8851.0	9000.5	9080.6	8970.1	8790.3
35°	12127.0	12090.2	11453.2	10404.5	9477.1	9056.8	9078.5	9197.6	9358.0	9202.0	8963.6
37.5°	13674.0	13585.2	12972.0	11635.2	10324.3	9561.6	9561.6	9576.8	9652.6	9327.6	9167.3
40°	15212.4	15123.5	14568.9	13082.5	11420.7	10356.8	10307.0	9971.1	9910.5	9631.0	9576.8
42.5°	16642.4	16616.4	16289.2	14718.4	12707.7	11139.0	11069.6	10499.8	10512.8	10339.5	10341.6
45°	18163.4	18163.4	17896.9	16369.4	14207.0	12395.7	12326.3	11487.8	11617.8	11537.7	11730.5
47.5°	19404.9	19443.9	19407.1	18089.7	15951.2	13992.5	13866.9	12857.2	13221.2	13496.3	14057.5
50°	20672.4	20733.1	20739.6	19976.9	18059.4	15890.5	15747.5	14675.0	15487.5	16276.2	17379.1
52.5°	22512.0	22648.5	22104.6	21859.8	20642.1	18143.9	18003.1	17012.9	18369.2	19476.4	21376.6
55°	24217.2	24098.0	23710.2	23861.8	23406.8	20709.3	20603.1	19734.3	21580.3	23019.0	25486.8
57.5°	25140.2	25131.5	25521.5	26171.5	26388.2	23872.7	23783.8	22938.8	25200.8	26282.0	29345.7
60°	26223.5	26238.7	27205.0	28680.6	29573.2	27811.7	27772.7	27131.4	28717.4	29328.4	32372.6
62.5°	26375.2	26648.2	28312.2	30851.6	32554.6	32413.8	32500.4	30907.9	31863.4	31759.4	34632.5
65°	24631.0	24990.7	28002.4	31508.1	35518.6	37447.0	37527.2	34706.1	34344.3	33837.3	35440.6
67.5°	21056.0	21589.0	24860.7	30080.2	36495.8	41167.2	41279.9	37650.7	36402.7	34541.5	33495.0
70°	15322.9	15914.4	19207.8	25690.5	34753.8	42356.7	42484.6	38952.9	36480.7	32537.3	28593.9
72.5°	9256.1	9719.8	12434.7	18913.1	29332.7	40190.0	40417.5	37301.8	33306.4	27560.4	21114.5
75°	4064.7	4368.1	6012.6	10898.5	20999.6	33252.3	33536.1	31928.4	27062.0	20028.9	12480.2
77.5°	1731.2	1817.9	2465.7	4734.2	11871.3	22722.1	23112.1	23328.8	18360.6	10898.5	5273.7
80°	1079.0	1113.7	1395.4	2142.9	5555.4	12761.8	13182.2	13726.0	9117.5	4006.2	1841.7
82.5°	656.5	695.5	927.3	1295.7	2892.5	5785.1	5986.6	6370.1	3538.2	1731.2	953.3
85°	394.3	422.5	567.7	819.0	1646.7	2275.0	2272.9	2513.4	1666.2	1113.7	502.7
87.5°	188.5	210.2	303.3	424.7	829.8	853.7	799.5	905.7	1011.8	730.2	253.5
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°	6450.3	6450.3	6450.3	6450.3	6450.3	6450.3	6450.3	6450.3	6450.3	6450.3	6450.3
2.5°	6445.9	6437.3	6409.1	6387.4	6383.1	6370.1	6359.3	6365.8	6374.4	6376.6	6376.6
5°	6443.8	6419.9	6383.1	6367.9	6387.4	6413.4	6445.9	6489.3	6515.3	6534.8	6547.8
7.5°	6547.8	6502.3	6461.1	6452.4	6491.4	6560.8	6634.4	6725.4	6788.3	6831.6	6840.3
10°	6721.1	6664.8	6623.6	6632.3	6701.6	6801.3	6905.3	7022.3	7117.6	7176.1	7180.4
12.5°	6920.4	6866.3	6827.3	6864.1	6978.9	7100.3	7208.6	7310.4	7397.1	7455.6	7455.6
15°	7150.1	7111.1	7065.6	7150.1	7306.1	7414.4	7459.9	7509.8	7557.4	7600.8	7592.1
17.5°	7371.1	7334.3	7310.4	7410.1	7572.6	7622.4	7592.1	7555.3	7555.3	7579.1	7583.4
20°	7561.8	7529.3	7544.4	7641.9	7726.4	7674.4	7561.8	7444.8	7397.1	7410.1	7423.1
22.5°	7728.6	7713.4	7758.9	7804.4	7743.8	7561.8	7353.8	7195.6	7137.1	7132.8	7137.1
25°	7923.6	7921.4	7977.8	7895.4	7626.8	7290.9	7011.4	6857.6	6825.1	6851.1	6894.4
27.5°	8166.3	8190.1	8218.3	7917.1	7388.4	6881.4	6597.6	6491.4	6523.9	6586.8	6627.9
30°	8476.1	8541.1	8480.4	7862.9	7046.1	6413.4	6142.6	6112.2	6201.1	6289.9	6333.3
32.5°	8777.3	8879.1	8731.8	7722.1	6604.1	5917.2	5707.1	5698.4	5806.7	5893.4	5954.1
35°	9020.0	9221.5	8920.3	7442.6	6092.7	5460.1	5306.2	5247.7	5286.7	5388.6	5457.9
37.5°	9336.3	9672.1	9050.3	7015.8	5538.1	5083.1	4903.2	4768.9	4734.2	4775.4	4810.1
40°	9914.8	10359.0	9111.0	6419.9	4996.4	4706.1	4524.1	4326.9	4190.4	4090.7	4092.9
42.5°	10859.5	11253.8	9072.0	5696.2	4495.9	4337.7	4131.9	3904.4	3683.4	3458.0	3440.7
45°	12393.5	12584.2	8955.0	4929.2	4056.1	3952.1	3759.2	3531.7	3237.0	2981.4	2957.5
47.5°	14848.4	14425.9	8773.0	4259.7	3668.2	3624.9	3447.2	3185.0	2873.0	2667.2	2649.9
50°	18195.9	17084.4	8684.1	3726.7	3325.9	3338.9	3193.7	2916.4	2621.7	2470.0	2452.7
52.5°	22200.0	20180.6	8855.3	3315.0	3050.7	3096.2	2987.9	2727.9	2480.9	2361.7	2344.4
55°	26353.5	23387.3	9039.5	3016.0	2790.7	2879.5	2842.7	2628.2	2405.0	2294.5	2279.4
57.5°	29909.1	25781.5	8671.1	2773.4	2558.9	2697.5	2730.0	2565.4	2366.0	2266.4	2249.0
60°	32147.3	26745.7	7704.8	2545.9	2374.7	2552.4	2665.0	2548.0	2381.2	2372.5	2359.5
62.5°	33208.9	26661.2	6255.3	2366.0	2259.9	2489.5	2712.7	2645.5	2554.5	2632.5	2639.0
65°	32732.3	25387.2	4658.4	2246.9	2177.5	2513.4	2855.7	2829.7	2604.4	2682.4	2693.2
67.5°	29594.9	22347.3	3449.4	2142.9	2086.5	2580.5	3115.7	2890.4	2506.9	2563.2	2528.5
70°	23920.3	17717.1	2660.7	2025.9	1993.4	2571.9	3232.7	2853.5	2400.7	2413.7	2320.5
72.5°	16495.1	12081.5	2164.5	1917.5	1859.0	2344.4	3150.4	2762.5	2311.9	2212.2	2088.7
75°	8970.1	6484.9	1839.5	1804.9	1622.9	2058.4	2998.7	2697.5	2231.7	2099.5	2030.2
77.5°	3529.5	2691.0	1596.9	1651.0	1419.2	1817.9	2829.7	2574.0	2121.2	1947.9	1913.2
80°	1440.9	1373.7	1323.9	1427.9	1219.8	1590.4	2626.0	2428.9	1989.0	1807.0	1737.7
82.5°	816.8	853.7	1029.2	1126.7	990.2	1464.7	2528.5	2311.9	1830.9	1618.5	1536.2
85°	418.2	500.5	717.2	808.2	728.0	1245.9	2329.2	2023.7	1469.0	1239.4	1245.9
87.5°	201.5	279.5	452.8	507.0	472.3	901.3	1739.9	1466.9	1144.0	905.7	877.5
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)