

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: P319024

Luminaire Tested: **GAN-SA0D-730-U-T4W**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P319024  
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-SA0D-730-U-T4W  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 69452 lumens  
Efficiency: N/A  
Efficacy: 108.5 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5

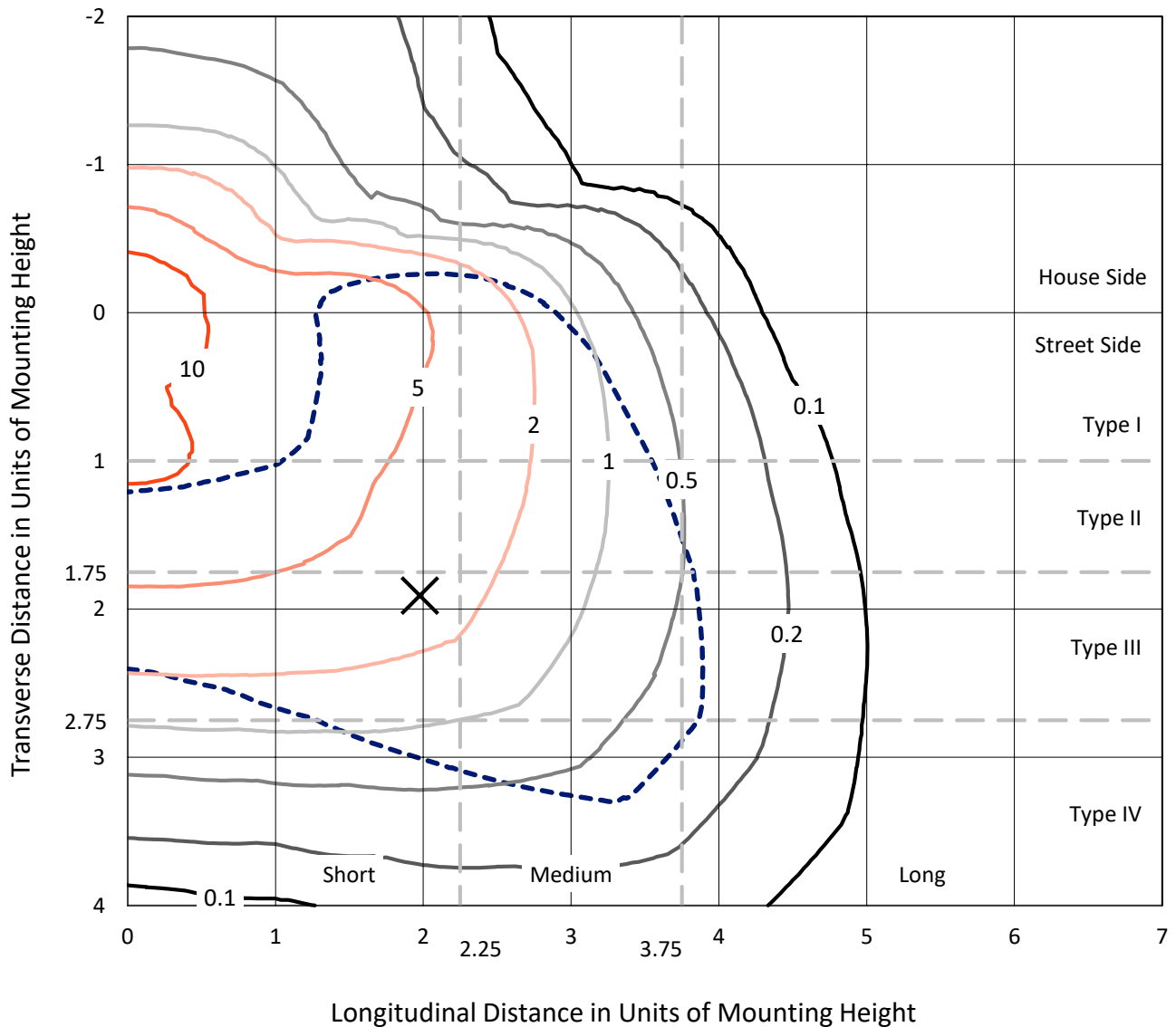
Input Watts (W): 640  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

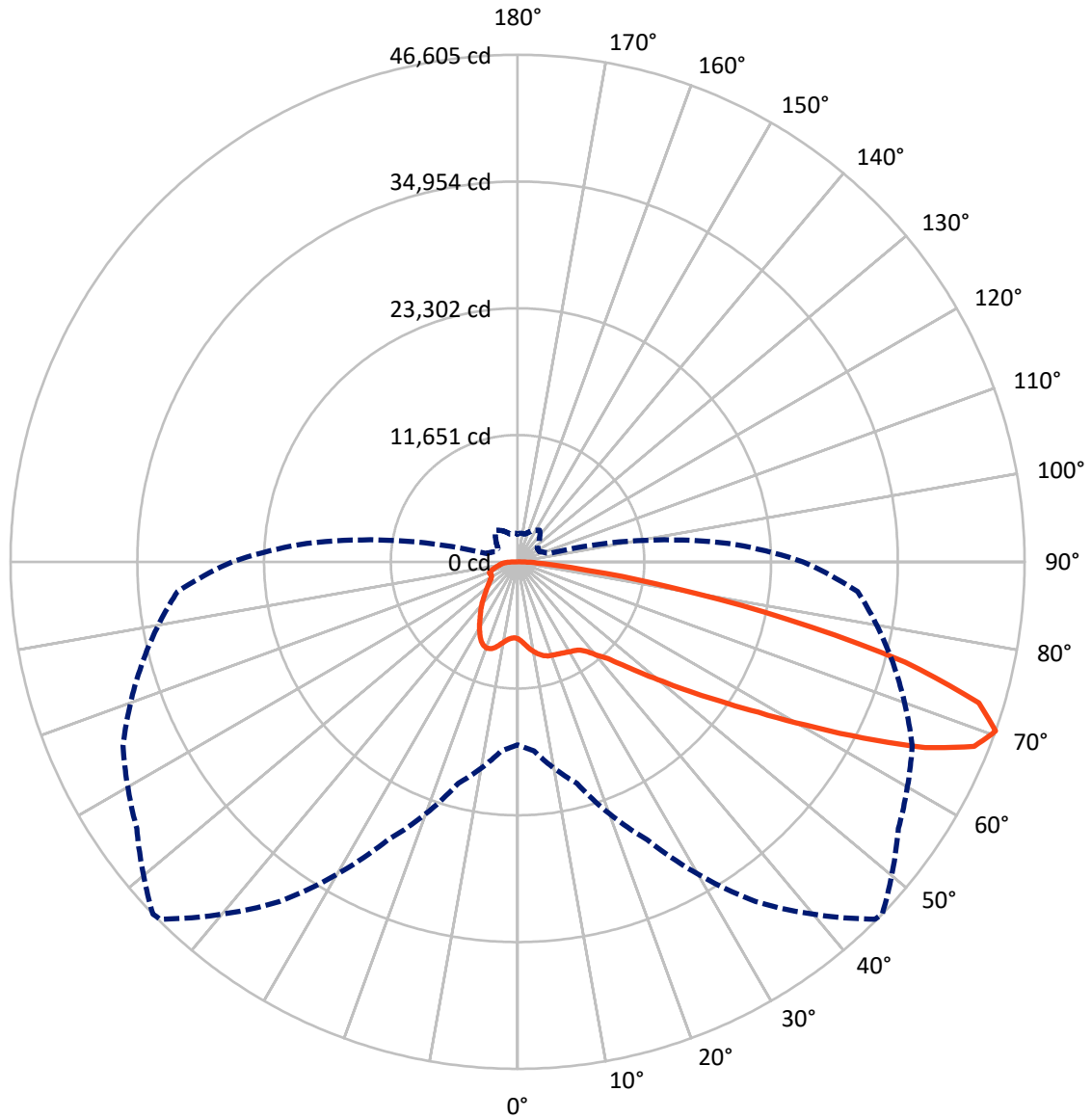
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.1 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	15918.2	0.0	15918.2
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	53533.8	0.0	53533.8
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	69452.0	0.0	69452.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	721.3	1.0
10°-20°	2403.2	3.5
20°-30°	4007.1	5.8
30°-40°	5686.4	8.2
40°-50°	8364.3	12.0
50°-60°	14165.0	20.4
60°-70°	20106.9	29.0
70°-80°	12215.1	17.6
80°-90°	1782.7	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°	69452.0	100.0
0°-180°	69452.0	100.0

**Coefficient of Utilization**

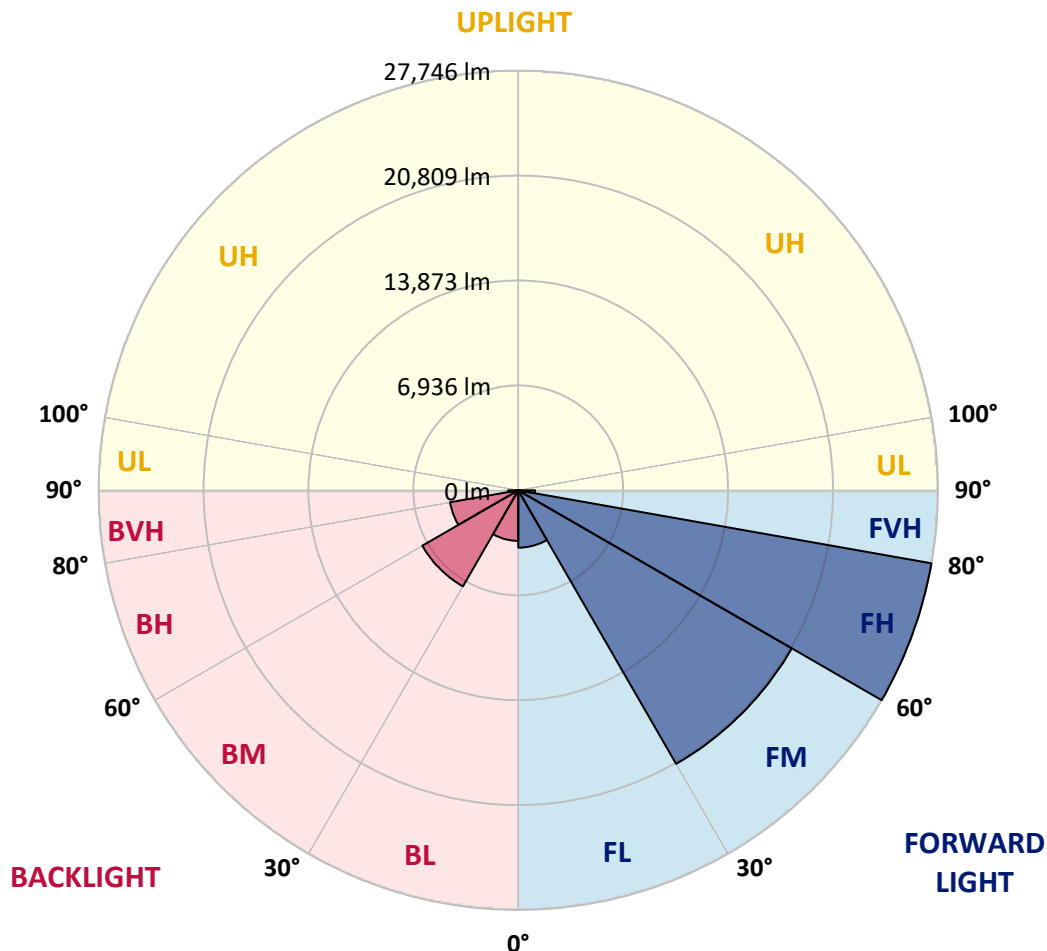


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3789.6	5.5			
FM (30°-60°)	20888.1	30.1			
FH (60°-80°)	27745.7	39.9			G5
FVH (80°-90°)	1110.4	1.6			G5
BL (0°-30°)	3342.1	4.8	B4/5000		
BM (30°-60°)	7327.6	10.6	B4/8500		
BH (60°-80°)	4576.3	6.6	B4/5000		G4/5000
BVH (80°-90°)	672.2	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°	7075.8	7075.8	7075.8	7075.8	7075.8	7075.8	7075.8	7075.8	7075.8	7075.8	7075.8
2.5°	7429.9	7434.7	7444.2	7420.4	7353.9	7334.9	7327.7	7258.8	7213.7	7147.1	7090.1
5°	8024.2	8028.9	8014.6	7948.1	7800.7	7691.4	7681.9	7525.0	7382.4	7230.3	7116.2
7.5°	8644.5	8651.6	8606.5	8480.5	8273.7	8083.6	8071.7	7857.8	7641.5	7410.9	7239.8
10°	9193.5	9165.0	9091.3	8915.5	8670.6	8437.7	8428.2	8204.8	7955.2	7677.1	7449.0
12.5°	9559.6	9535.8	9440.7	9226.8	8958.2	8744.3	8725.3	8518.5	8276.1	7971.9	7698.5
15°	9761.6	9778.2	9649.9	9407.5	9146.0	8965.4	8948.7	8801.4	8585.1	8278.5	7964.7
17.5°	9787.8	9802.0	9678.4	9438.4	9224.4	9100.9	9093.7	8996.3	8839.4	8544.7	8216.7
20°	9635.6	9645.1	9542.9	9345.7	9205.4	9167.4	9165.0	9122.2	9005.8	8744.3	8425.8
22.5°	9414.6	9421.7	9348.0	9205.4	9157.9	9217.3	9234.0	9217.3	9134.1	8889.3	8589.8
25°	9359.9	9355.2	9279.1	9134.1	9174.5	9300.5	9321.9	9329.0	9272.0	9058.1	8799.0
27.5°	9623.8	9607.1	9462.1	9229.2	9255.3	9407.5	9436.0	9504.9	9469.3	9281.5	9036.7
30°	10386.7	10358.2	10061.1	9590.5	9462.1	9540.6	9576.2	9685.6	9692.7	9535.8	9352.8
32.5°	11675.0	11639.3	11106.9	10265.5	9811.5	9676.0	9709.3	9873.3	9961.3	9840.0	9642.8
35°	13303.1	13262.7	12563.9	11413.5	10396.2	9935.1	9958.9	10089.6	10265.5	10094.4	9832.9
37.5°	15000.1	14902.7	14230.0	12763.5	11325.6	10488.9	10488.9	10505.6	10588.7	10232.2	10056.3
40°	16687.7	16590.2	15981.8	14351.3	12528.2	11361.2	11306.5	10938.1	10871.6	10565.0	10505.6
42.5°	18256.4	18227.8	17868.9	16145.8	13940.1	12219.2	12143.2	11518.1	11532.3	11342.2	11344.6
45°	19924.9	19924.9	19632.6	17956.9	15584.8	13597.8	13521.7	12601.9	12744.5	12656.6	12868.1
47.5°	21286.8	21329.6	21289.2	19844.1	17498.2	15349.5	15211.7	14104.1	14503.4	14805.2	15420.8
50°	22677.3	22743.8	22750.9	21914.3	19810.8	17431.6	17274.7	16098.2	16989.5	17854.7	19064.5
52.5°	24695.2	24844.9	24248.3	23979.8	22644.0	19903.5	19749.0	18662.8	20150.7	21365.3	23449.7
55°	26565.7	26435.0	26009.6	26175.9	25676.8	22717.7	22601.2	21648.1	23673.1	25251.4	27958.6
57.5°	27578.3	27568.8	27996.6	28709.6	28947.3	26187.8	26090.4	25163.4	27644.8	28830.9	32191.7
60°	28766.7	28783.3	29843.4	31462.0	32441.2	30508.9	30466.1	29762.6	31502.4	32172.7	35512.1
62.5°	28933.1	29232.5	31057.9	33843.6	35711.8	35557.3	35652.3	33905.4	34953.5	34839.5	37991.1
65°	27019.7	27414.3	30718.0	34563.7	38963.2	41078.6	41166.6	38071.9	37675.0	37118.8	38877.7
67.5°	23098.0	23682.7	27271.7	32997.4	40035.2	45159.6	45283.2	41302.0	39933.0	37891.3	36743.3
70°	16808.9	17457.8	21070.5	28182.0	38124.2	46464.5	46604.7	42730.5	40018.6	35692.7	31366.9
72.5°	10153.8	10662.4	13640.6	20747.3	32177.4	44087.7	44337.2	40919.4	36536.5	30233.2	23162.1
75°	4458.9	4791.7	6595.7	11955.4	23036.2	36477.1	36788.5	35024.9	29686.5	21971.3	13690.5
77.5°	1899.1	1994.2	2704.8	5193.4	13022.6	24925.7	25353.6	25591.2	20141.2	11955.4	5785.2
80°	1183.7	1221.7	1530.7	2350.7	6094.2	13999.5	14460.6	15057.2	10001.7	4394.7	2020.3
82.5°	720.2	763.0	1017.3	1421.3	3173.1	6346.1	6567.2	6987.9	3881.4	1899.1	1045.8
85°	432.6	463.5	622.7	898.4	1806.4	2495.7	2493.3	2757.1	1827.8	1221.7	551.4
87.5°	206.8	230.6	332.8	465.9	910.3	936.5	877.0	993.5	1110.0	801.0	278.1
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°	7075.8	7075.8	7075.8	7075.8	7075.8	7075.8	7075.8	7075.8	7075.8	7075.8	7075.8
2.5°	7071.0	7061.5	7030.6	7006.9	7002.1	6987.9	6976.0	6983.1	6992.6	6995.0	6995.0
5°	7068.7	7042.5	7002.1	6985.5	7006.9	7035.4	7071.0	7118.6	7147.1	7168.5	7182.8
7.5°	7182.8	7132.8	7087.7	7078.2	7121.0	7197.0	7277.8	7377.7	7446.6	7494.1	7503.6
10°	7372.9	7311.1	7265.9	7275.5	7351.5	7460.8	7574.9	7703.3	7807.9	7872.0	7876.8
12.5°	7591.6	7532.1	7489.4	7529.8	7655.7	7788.8	7907.7	8019.4	8114.5	8178.6	8178.6
15°	7843.5	7800.7	7750.8	7843.5	8014.6	8133.5	8183.4	8238.1	8290.4	8337.9	8328.4
17.5°	8085.9	8045.5	8019.4	8128.7	8307.0	8361.7	8328.4	8288.0	8288.0	8314.1	8318.9
20°	8295.1	8259.5	8276.1	8383.1	8475.7	8418.7	8295.1	8166.8	8114.5	8128.7	8143.0
22.5°	8478.1	8461.5	8511.4	8561.3	8494.8	8295.1	8066.9	7893.4	7829.3	7824.5	7829.3
25°	8692.0	8689.7	8751.5	8661.1	8366.4	7998.0	7691.4	7522.6	7487.0	7515.5	7563.0
27.5°	8958.2	8984.4	9015.3	8684.9	8105.0	7548.8	7237.4	7121.0	7156.6	7225.5	7270.7
30°	9298.1	9369.4	9302.9	8625.5	7729.4	7035.4	6738.3	6705.0	6802.5	6899.9	6947.5
32.5°	9628.5	9740.2	9578.6	8471.0	7244.6	6491.1	6260.5	6251.0	6369.9	6465.0	6531.5
35°	9894.7	10115.8	9785.4	8164.4	6683.6	5989.6	5820.8	5756.7	5799.4	5911.2	5987.2
37.5°	10241.7	10610.1	9928.0	7696.1	6075.2	5576.0	5378.7	5231.4	5193.4	5238.5	5276.5
40°	10876.3	11363.6	9994.5	7042.5	5481.0	5162.5	4962.8	4746.5	4596.8	4487.4	4489.8
42.5°	11912.6	12345.2	9951.8	6248.7	4931.9	4758.4	4532.6	4283.0	4040.6	3793.4	3774.4
45°	13595.4	13804.6	9823.4	5407.3	4449.4	4335.3	4123.8	3874.2	3551.0	3270.5	3244.4
47.5°	16288.4	15824.9	9623.8	4672.8	4024.0	3976.4	3781.5	3493.9	3151.7	2925.9	2906.9
50°	19960.6	18741.2	9526.3	4088.1	3648.4	3662.7	3503.4	3199.2	2876.0	2709.6	2690.6
52.5°	24352.9	22137.7	9714.1	3636.5	3346.6	3396.5	3277.6	2992.4	2721.5	2590.7	2571.7
55°	28909.3	25655.4	9916.1	3308.5	3061.3	3158.8	3118.4	2883.1	2638.3	2517.1	2500.4
57.5°	32809.7	28281.8	9512.0	3042.3	2807.0	2959.1	2994.8	2814.2	2595.5	2486.2	2467.1
60°	35264.9	29339.5	8452.0	2792.8	2605.0	2799.9	2923.5	2795.1	2612.1	2602.6	2588.4
62.5°	36429.6	29246.8	6861.9	2595.5	2479.0	2731.0	2975.8	2902.1	2802.3	2887.8	2895.0
65°	35906.7	27849.2	5110.2	2464.8	2388.7	2757.1	3132.7	3104.1	2856.9	2942.5	2954.4
67.5°	32465.0	24514.5	3783.9	2350.7	2288.9	2830.8	3417.9	3170.7	2750.0	2811.8	2773.8
70°	26240.1	19435.3	2918.7	2222.3	2186.7	2821.3	3546.2	3130.3	2633.5	2647.8	2545.6
72.5°	18094.7	13253.2	2374.4	2103.5	2039.3	2571.7	3455.9	3030.4	2536.1	2426.7	2291.3
75°	9840.0	7113.8	2017.9	1979.9	1780.2	2258.0	3289.5	2959.1	2448.1	2303.1	2227.1
77.5°	3871.8	2952.0	1751.7	1811.1	1556.8	1994.2	3104.1	2823.7	2326.9	2136.8	2098.7
80°	1580.6	1506.9	1452.2	1566.3	1338.2	1744.6	2880.7	2664.4	2181.9	1982.3	1906.2
82.5°	896.1	936.5	1129.0	1235.9	1086.2	1606.7	2773.8	2536.1	2008.4	1775.5	1685.2
85°	458.7	549.0	786.7	886.6	798.6	1366.7	2555.1	2220.0	1611.5	1359.5	1366.7
87.5°	221.0	306.6	496.8	556.2	518.1	988.8	1908.6	1609.1	1255.0	993.5	962.6
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)