

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: P319023

Luminaire Tested: **GAN-SA9D-730-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319023
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-SA9D-730-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 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: 62729 lumens
Efficiency: N/A
Efficacy: 109.1 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

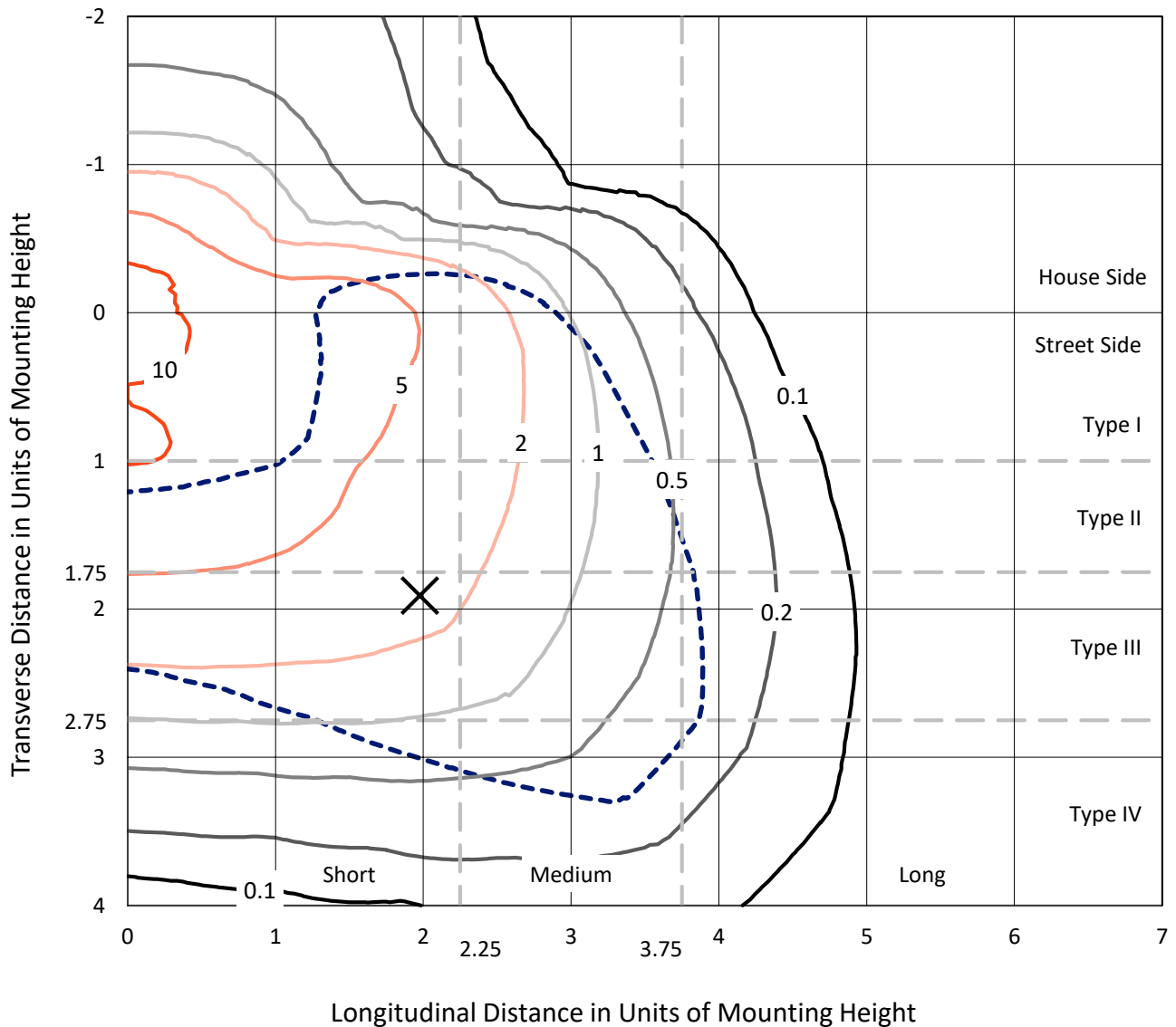
Input Watts (W): 575
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

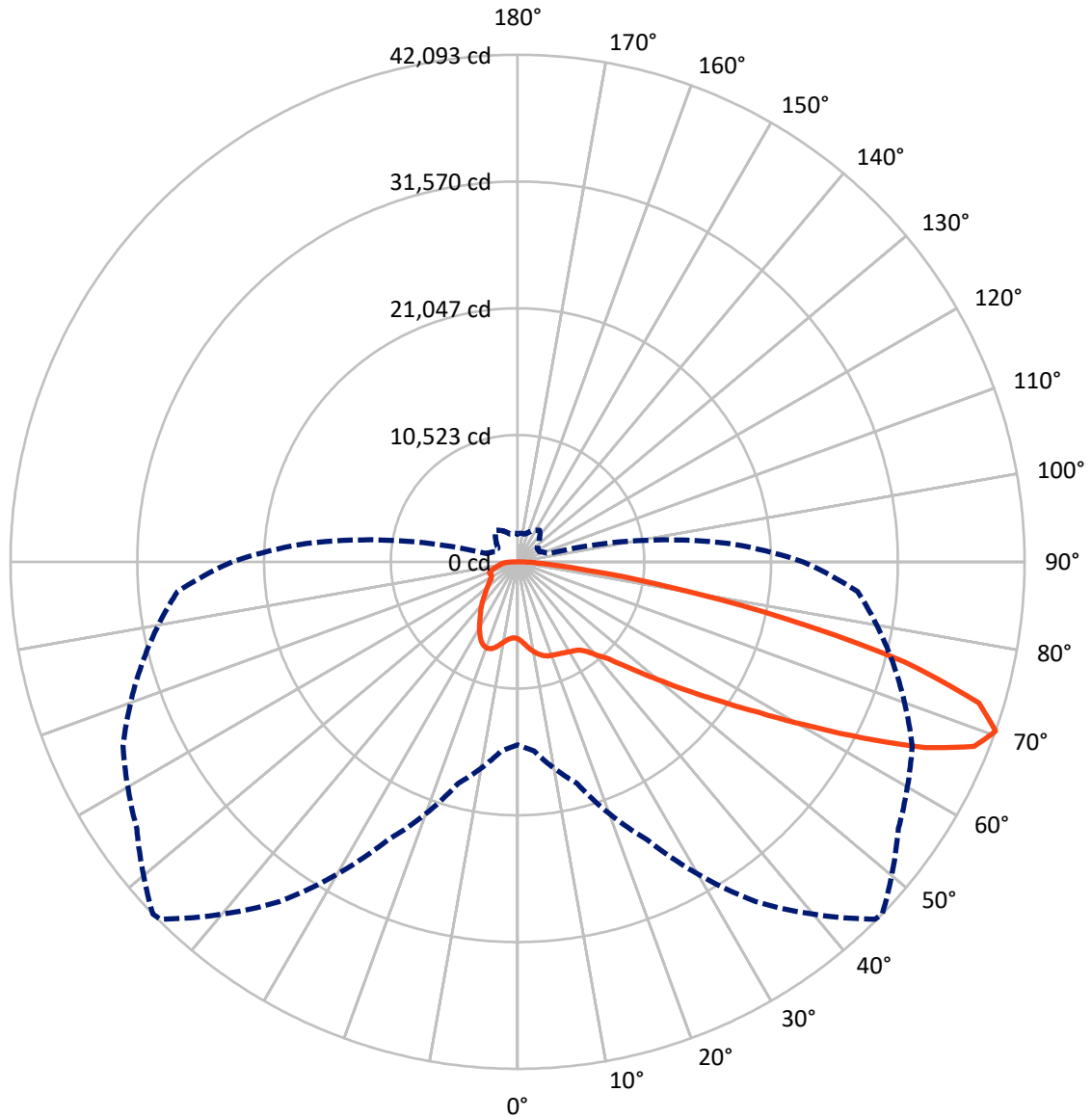
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.8 fc
 Type IV - Short - N/A

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CATALOG NUMBER: GAN-SA9D-730-U-T4W

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
House Side	Lumens	14377.3	0.0	14377.3
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	48351.7	0.0	48351.7
	% Fixture	77.1	0.0	77.1
Total	Lumens	62729.0	0.0	62729.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	651.5	1.0
10°-20°	2170.6	3.5
20°-30°	3619.2	5.8
30°-40°	5135.9	8.2
40°-50°	7554.7	12.0
50°-60°	12793.8	20.4
60°-70°	18160.5	29.0
70°-80°	11032.7	17.6
80°-90°	1610.1	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°	62729.0	100.0
0°-180°	62729.0	100.0

Coefficient of Utilization



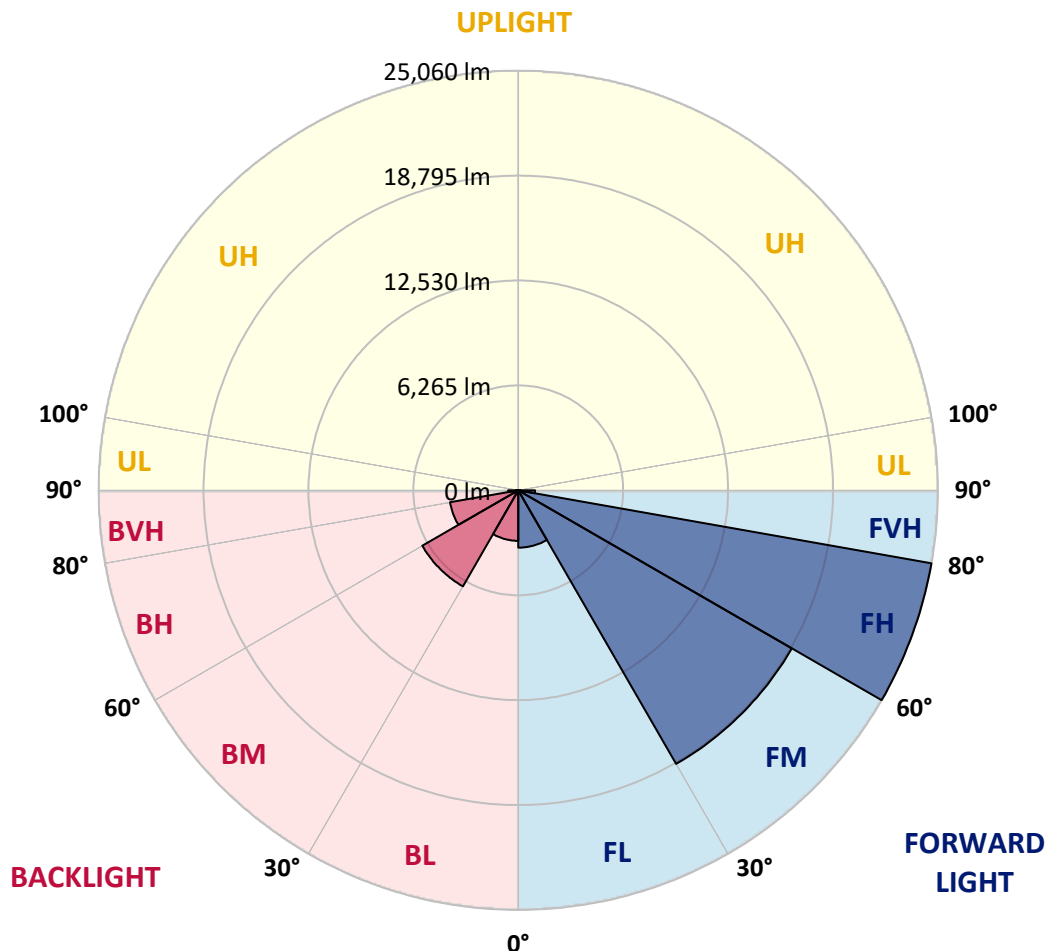
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3422.8	5.5			
FM (30°-60°)	18866.1	30.1			
FH (60°-80°)	25059.9	39.9			G5
FVH (80°-90°)	1002.9	1.6			G5
BL (0°-30°)	3018.6	4.8	B4/5000		
BM (30°-60°)	6618.3	10.6	B4/8500		
BH (60°-80°)	4133.4	6.6	B4/5000		G4/5000
BVH (80°-90°)	607.1	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°	6390.9	6390.9	6390.9	6390.9	6390.9	6390.9	6390.9	6390.9	6390.9	6390.9	6390.9
2.5°	6710.7	6715.0	6723.6	6702.1	6642.0	6624.9	6618.4	6556.2	6515.4	6455.3	6403.7
5°	7247.4	7251.7	7238.8	7178.7	7045.6	6946.9	6938.3	6796.6	6667.8	6530.4	6427.4
7.5°	7807.7	7814.1	7773.4	7659.6	7472.8	7301.1	7290.3	7097.1	6901.8	6693.5	6539.0
10°	8303.6	8277.8	8211.3	8052.4	7831.3	7620.9	7612.4	7410.6	7185.2	6934.0	6727.9
12.5°	8634.2	8612.7	8526.9	8333.7	8091.1	7897.9	7880.7	7693.9	7475.0	7200.2	6953.3
15°	8816.7	8831.7	8715.8	8496.8	8260.7	8097.5	8082.5	7949.4	7754.0	7477.1	7193.7
17.5°	8840.3	8853.2	8741.5	8524.7	8331.5	8219.9	8213.4	8125.4	7983.7	7717.5	7421.3
20°	8702.9	8711.5	8619.2	8441.0	8314.3	8280.0	8277.8	8239.2	8134.0	7897.9	7610.2
22.5°	8503.3	8509.7	8443.1	8314.3	8271.4	8325.1	8340.1	8325.1	8249.9	8028.8	7758.3
25°	8453.9	8449.6	8380.9	8249.9	8286.4	8400.2	8419.5	8426.0	8374.4	8181.2	7947.2
27.5°	8692.2	8677.1	8546.2	8335.8	8359.4	8496.8	8522.6	8584.8	8552.6	8383.0	8161.9
30°	9381.3	9355.5	9087.2	8662.1	8546.2	8617.0	8649.2	8748.0	8754.4	8612.7	8447.4
32.5°	10544.8	10512.6	10031.7	9271.8	8861.8	8739.4	8769.4	8917.6	8997.0	8887.5	8709.3
35°	12015.3	11978.8	11347.7	10308.7	9389.9	8973.4	8994.9	9112.9	9271.8	9117.2	8881.1
37.5°	13548.1	13460.1	12852.6	11528.0	10229.2	9473.6	9473.6	9488.6	9563.7	9241.7	9082.9
40°	15072.3	14984.3	14434.7	12962.0	11315.5	10261.4	10212.1	9879.3	9819.2	9542.3	9488.6
42.5°	16489.1	16463.4	16139.2	14582.8	12590.7	11036.4	10967.7	10403.1	10416.0	10244.3	10246.4
45°	17996.2	17996.2	17732.1	16218.7	14076.2	12281.5	12212.8	11382.0	11510.8	11431.4	11622.5
47.5°	19226.2	19264.9	19228.4	17923.2	15804.3	13863.7	13739.2	12738.8	13099.4	13372.1	13928.1
50°	20482.1	20542.2	20548.6	19793.0	17893.1	15744.2	15602.5	14539.9	15344.9	16126.3	17219.0
52.5°	22304.7	22439.9	21901.1	21658.5	20452.0	17976.8	17837.3	16856.2	18200.1	19297.1	21179.8
55°	23994.2	23876.1	23491.8	23642.1	23191.3	20518.6	20413.4	19552.5	21381.6	22807.0	25252.2
57.5°	24908.7	24900.1	25286.5	25930.5	26145.2	23652.8	23564.8	22727.6	24968.8	26040.0	29075.5
60°	25982.0	25997.1	26954.5	28416.5	29300.9	27555.6	27517.0	26881.5	28452.9	29058.3	32074.5
62.5°	26132.3	26402.8	28051.5	30567.5	32254.8	32115.3	32201.2	30623.3	31570.0	31467.0	34313.6
65°	24404.2	24760.5	27744.5	31218.0	35191.6	37102.2	37181.6	34386.5	34028.0	33525.7	35114.3
67.5°	20862.1	21390.2	24631.7	29803.2	36159.8	40788.1	40899.8	37304.0	36067.4	34223.4	33186.5
70°	15181.8	15767.8	19030.9	25453.9	34433.8	41966.7	42093.4	38594.2	36144.7	32237.7	28330.6
72.5°	9170.9	9630.3	12320.2	18738.9	29062.6	39820.0	40045.4	36958.3	32999.8	27306.6	20920.0
75°	4027.3	4327.8	5957.2	10798.1	20806.2	32946.1	33227.3	31634.4	26812.8	19844.5	12365.2
77.5°	1715.2	1801.1	2443.0	4690.6	11762.0	22512.9	22899.3	23114.0	18191.5	10798.1	5225.2
80°	1069.1	1103.4	1382.5	2123.1	5504.3	12644.3	13060.8	13599.6	9033.5	3969.3	1824.7
82.5°	650.5	689.1	918.8	1283.8	2865.9	5731.8	5931.5	6311.4	3505.6	1715.2	944.6
85°	390.7	418.6	562.4	811.5	1631.5	2254.1	2251.9	2490.2	1650.8	1103.4	498.0
87.5°	186.8	208.2	300.5	420.8	822.2	845.8	792.1	897.3	1002.5	723.5	251.2
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°	6390.9	6390.9	6390.9	6390.9	6390.9	6390.9	6390.9	6390.9	6390.9	6390.9	6390.9
2.5°	6386.6	6378.0	6350.1	6328.6	6324.3	6311.4	6300.7	6307.1	6315.7	6317.9	6317.9
5°	6384.4	6360.8	6324.3	6309.3	6328.6	6354.4	6386.6	6429.5	6455.3	6474.6	6487.5
7.5°	6487.5	6442.4	6401.6	6393.0	6431.6	6500.3	6573.3	6663.5	6725.7	6768.7	6777.3
10°	6659.2	6603.4	6562.6	6571.2	6639.9	6738.6	6841.7	6957.6	7052.1	7110.0	7114.3
12.5°	6856.7	6803.0	6764.4	6800.9	6914.7	7034.9	7142.2	7243.1	7329.0	7386.9	7386.9
15°	7084.3	7045.6	7000.5	7084.3	7238.8	7346.2	7391.2	7440.6	7487.8	7530.8	7522.2
17.5°	7303.2	7266.7	7243.1	7341.9	7502.9	7552.2	7522.2	7485.7	7485.7	7509.3	7513.6
20°	7492.1	7459.9	7475.0	7571.6	7655.3	7603.8	7492.1	7376.2	7329.0	7341.9	7354.7
22.5°	7657.4	7642.4	7687.5	7732.6	7672.5	7492.1	7286.0	7129.3	7071.4	7067.1	7071.4
25°	7850.6	7848.5	7904.3	7822.7	7556.5	7223.8	6946.9	6794.4	6762.2	6788.0	6830.9
27.5°	8091.1	8114.7	8142.6	7844.2	7320.4	6818.1	6536.8	6431.6	6463.8	6526.1	6566.9
30°	8398.1	8462.5	8402.4	7790.5	6981.2	6354.4	6086.0	6056.0	6144.0	6232.0	6274.9
32.5°	8696.5	8797.4	8651.4	7651.0	6543.3	5862.8	5654.5	5645.9	5753.3	5839.1	5899.3
35°	8936.9	9136.5	8838.1	7374.1	6036.6	5409.8	5257.4	5199.4	5238.1	5339.0	5407.6
37.5°	9250.3	9583.1	8967.0	6951.2	5487.1	5036.3	4858.1	4725.0	4690.6	4731.4	4765.8
40°	9823.5	10263.6	9027.1	6360.8	4950.4	4662.7	4482.4	4287.0	4151.8	4053.1	4055.2
42.5°	10759.5	11150.2	8988.4	5643.8	4454.5	4297.8	4093.8	3868.4	3649.5	3426.2	3409.0
45°	12279.4	12468.3	8872.5	4883.8	4018.7	3915.7	3724.6	3499.2	3207.2	2953.9	2930.3
47.5°	14711.6	14293.0	8692.2	4220.5	3634.4	3591.5	3415.5	3155.7	2846.6	2642.6	2625.5
50°	18028.4	16927.1	8604.2	3692.4	3295.3	3308.1	3164.3	2889.5	2597.6	2447.3	2430.1
52.5°	21995.5	19994.8	8773.7	3284.5	3022.6	3067.7	2960.4	2702.8	2458.0	2340.0	2322.8
55°	26110.8	23172.0	8956.2	2988.3	2765.0	2853.0	2816.5	2604.0	2382.9	2273.4	2258.4
57.5°	29633.7	25544.1	8591.3	2747.8	2535.3	2672.7	2704.9	2541.7	2344.2	2245.5	2228.3
60°	31851.2	26499.4	7633.8	2522.4	2352.8	2528.9	2640.5	2524.6	2359.3	2350.7	2337.8
62.5°	32903.1	26415.7	6197.7	2344.2	2239.1	2466.6	2687.7	2621.2	2531.0	2608.3	2614.7
65°	32430.9	25153.4	4615.5	2226.2	2157.5	2490.2	2829.4	2803.6	2580.4	2657.7	2668.4
67.5°	29322.4	22141.5	3417.6	2123.1	2067.3	2556.8	3087.0	2863.8	2483.8	2539.6	2505.3
70°	23700.1	17553.9	2636.2	2007.2	1975.0	2548.2	3202.9	2827.3	2378.6	2391.5	2299.2
72.5°	16343.2	11970.2	2144.6	1899.9	1841.9	2322.8	3121.4	2737.1	2290.6	2191.8	2069.5
75°	8887.5	6425.2	1822.6	1788.2	1607.9	2039.4	2971.1	2672.7	2211.1	2080.2	2011.5
77.5°	3497.0	2666.3	1582.2	1635.8	1406.1	1801.1	2803.6	2550.3	2101.7	1929.9	1895.6
80°	1427.6	1361.0	1311.7	1414.7	1208.6	1575.7	2601.9	2406.5	1970.7	1790.4	1721.7
82.5°	809.3	845.8	1019.7	1116.3	981.1	1451.2	2505.3	2290.6	1814.0	1603.6	1522.0
85°	414.3	495.9	710.6	800.7	721.3	1234.4	2307.7	2005.1	1455.5	1227.9	1234.4
87.5°	199.6	276.9	448.7	502.3	468.0	893.0	1723.8	1453.3	1133.5	897.3	869.4
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)