

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: P317413

Luminaire Tested: **GAN-SA9C-730-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317413
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9C-730-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 59994 lumens
Efficiency: N/A
Efficacy: 119.7 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G5

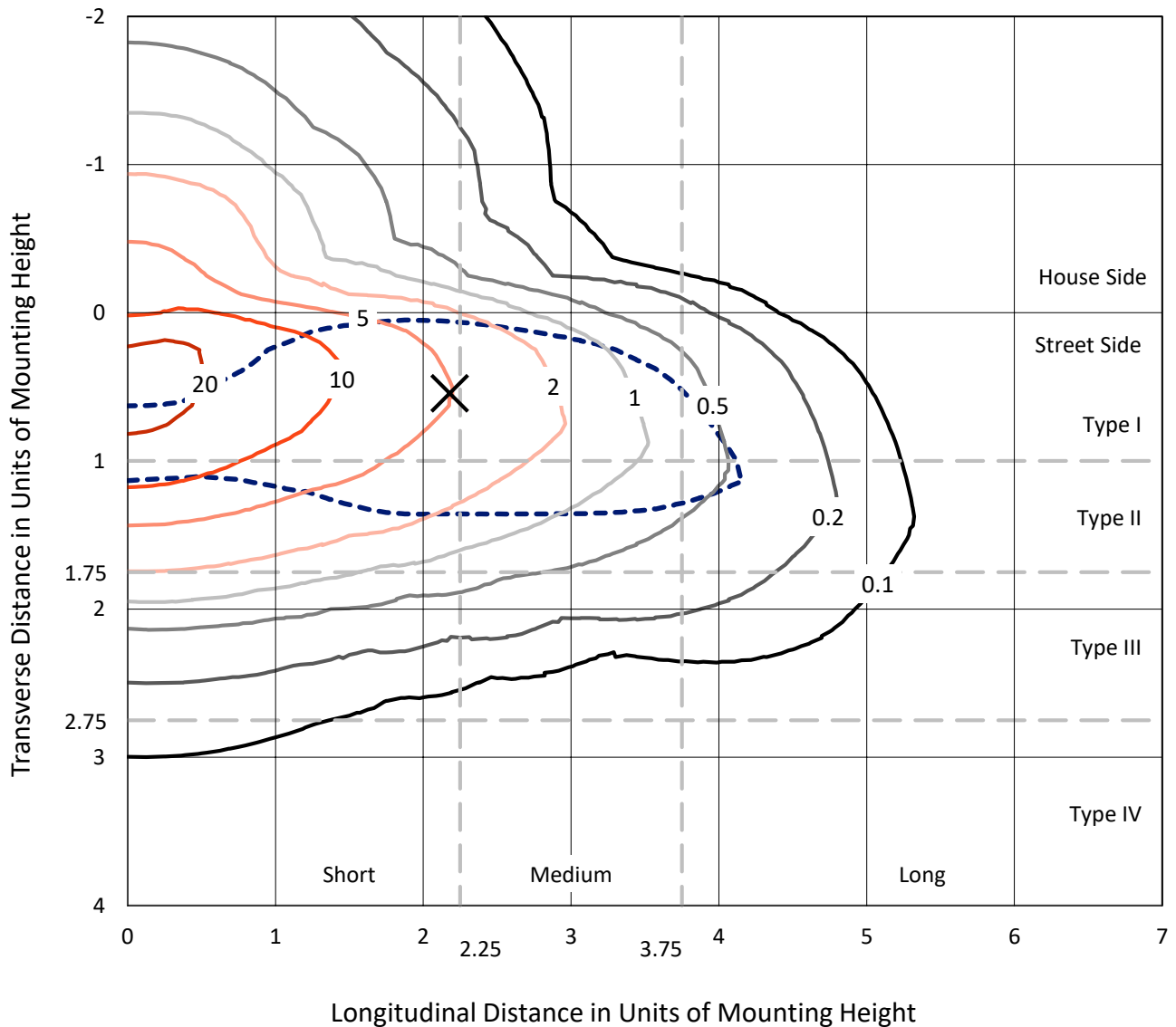
Input Watts (W): 501
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

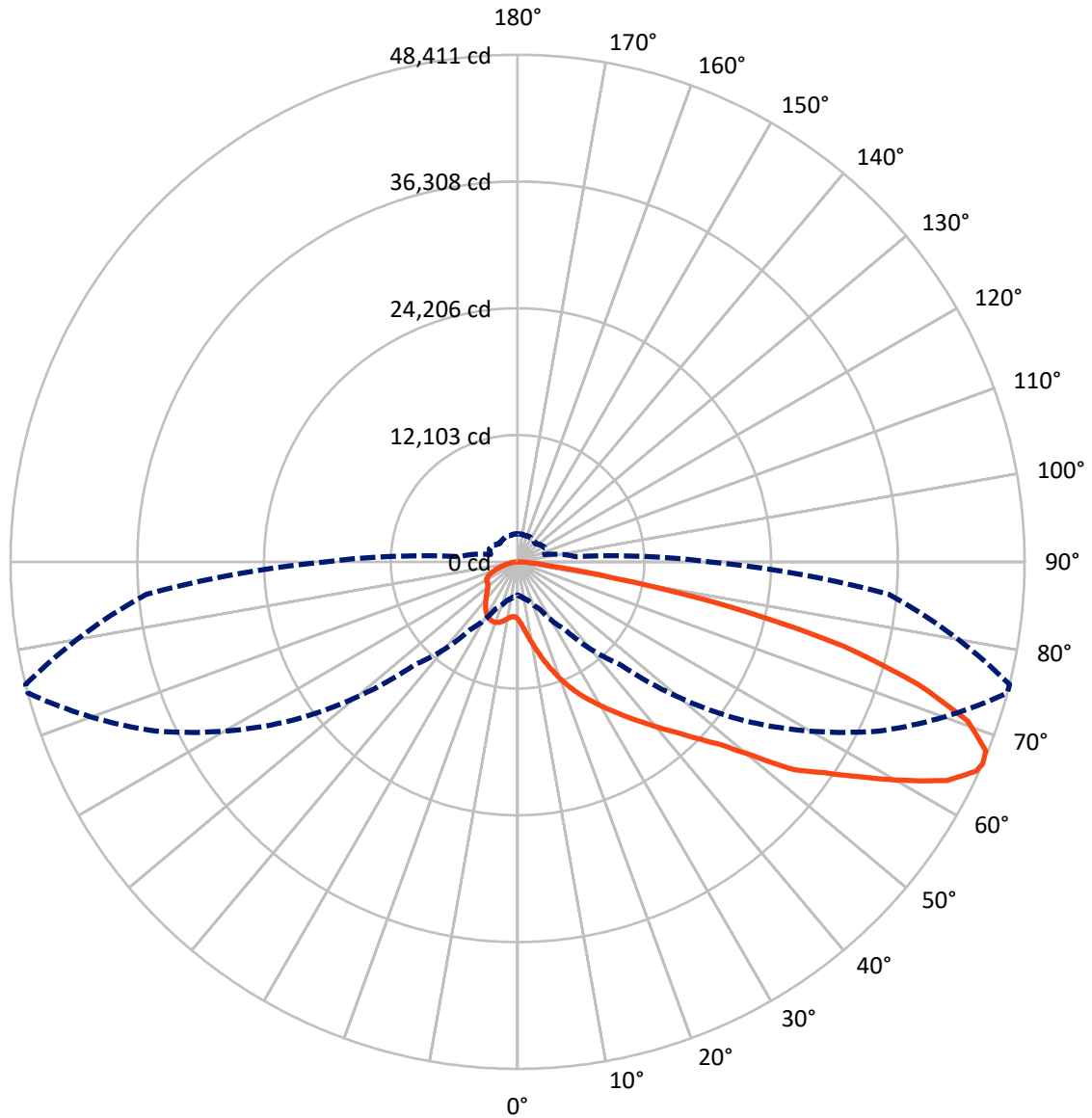
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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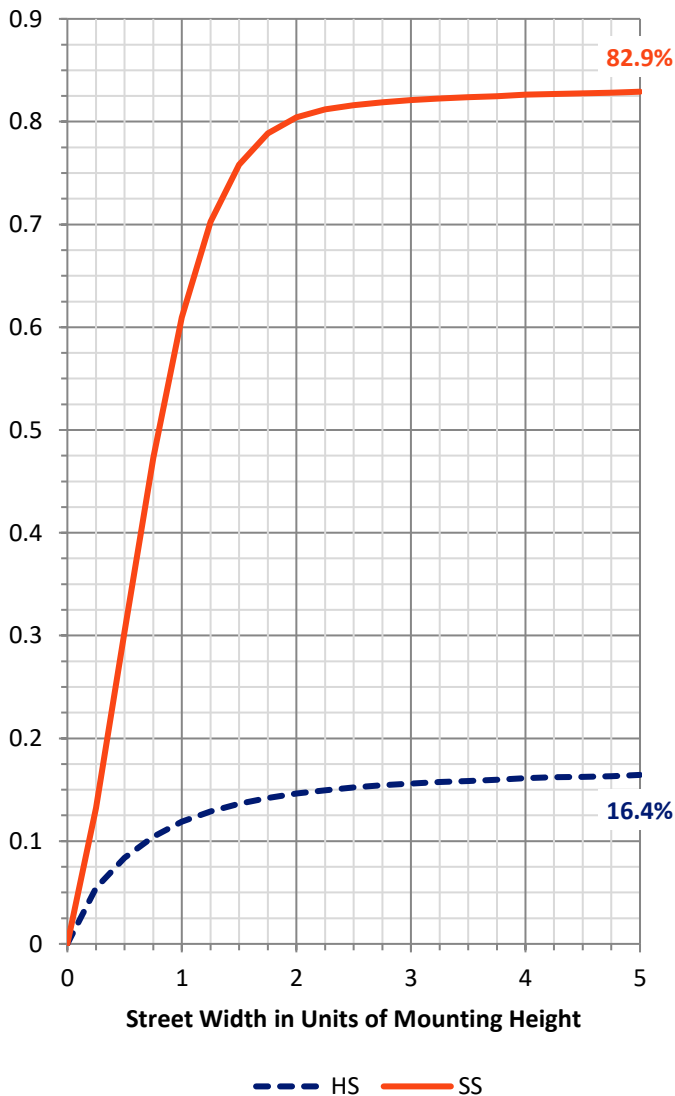
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10094.9	0.0	10094.9
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	49899.1	0.0	49899.1
	% Fixture	83.2	0.0	83.2
Total	Lumens	59994.0	0.0	59994.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	662.5	1.1
10°-20°	2616.3	4.4
20°-30°	5084.1	8.5
30°-40°	8298.4	13.8
40°-50°	11337.7	18.9
50°-60°	13206.1	22.0
60°-70°	11839.5	19.7
70°-80°	5983.2	10.0
80°-90°	966.2	1.6
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°	59994.0	100.0
0°-180°	59994.0	100.0

Coefficient of Utilization

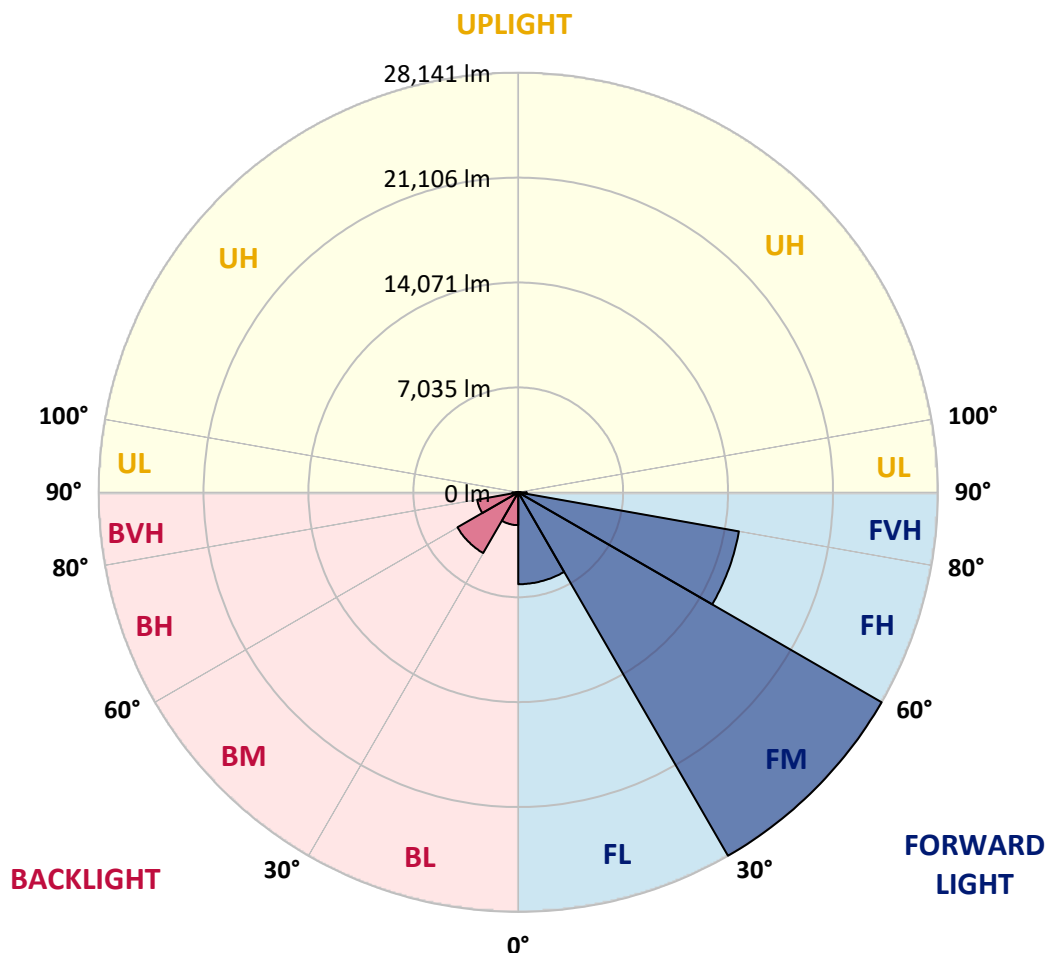


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6161.2	10.3			
FM (30°-60°)	28141.3	46.9			
FH (60°-80°)	15025.9	25.0			G5
FVH (80°-90°)	570.6	1.0			G4/750
BL (0°-30°)	2201.8	3.7	B3/2500		
BM (30°-60°)	4700.8	7.8	B3/5000		
BH (60°-80°)	2796.8	4.7	B4/5000		G4/5000
BVH (80°-90°)	395.6	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	5478.8	5478.8	5478.8	5478.8	5478.8	5478.8	5478.8	5478.8	5478.8	5478.8	5478.8
2.5°	7273.2	7163.2	7153.0	6992.1	6955.4	6647.9	6421.8	6185.6	5916.7	5863.7	5651.9
5°	9342.5	9332.3	9191.8	8929.0	8723.3	8197.8	7678.5	7128.6	6525.7	6427.9	5951.3
7.5°	11204.1	11187.8	11079.8	10796.7	10499.3	9853.7	9112.3	8269.1	7291.5	7146.9	6356.6
10°	12617.5	12611.4	12574.8	12367.0	12114.5	11495.3	10676.5	9525.8	8181.5	7984.0	6863.8
12.5°	13709.2	13721.5	13745.9	13672.6	13552.4	13024.9	12185.8	10857.8	9130.7	8935.1	7428.0
15°	14448.6	14485.2	14611.5	14715.4	14778.5	14454.7	13642.0	12220.4	10193.8	9959.6	8053.2
17.5°	14821.3	14862.0	15080.0	15393.6	15682.8	15650.2	15004.6	13519.8	11214.2	10988.2	8725.4
20°	15143.1	15173.6	15418.1	15794.8	16306.1	16532.1	16169.6	14770.4	12332.4	12063.6	9438.2
22.5°	16075.9	16114.6	16187.9	16401.8	16853.9	17269.4	17094.3	15953.7	13356.9	13106.4	10114.4
25°	17876.4	17923.2	17764.4	17583.1	17668.6	17957.9	17990.4	17033.2	14395.6	14112.5	10841.5
27.5°	20045.5	20112.7	19841.8	19375.4	18968.1	18856.1	18817.4	17917.1	15387.5	15059.6	11560.5
30°	22169.8	22285.9	21933.6	21328.6	20581.2	20055.7	19666.7	18782.7	16365.1	16051.5	12238.7
32.5°	24245.2	24198.4	23687.2	23096.5	22220.7	21562.9	20621.9	19711.5	17465.0	17104.5	12912.9
35°	25666.9	25683.2	25208.6	24508.0	23672.9	23167.8	21901.0	20713.6	18587.2	18255.2	13678.7
37.5°	26876.7	26801.3	26263.6	25609.9	24890.9	24675.0	23398.0	21817.5	19803.1	19440.6	14493.4
40°	27280.0	27192.4	26840.0	26369.6	25793.2	25774.8	25049.7	23068.0	21177.9	20819.5	15411.9
42.5°	27035.6	26923.5	26778.9	26650.6	26473.4	26554.9	26601.7	24534.5	22689.2	22287.9	16475.1
45°	26133.3	25964.2	26066.1	26345.1	26730.1	27190.4	28003.0	26157.7	24381.7	24045.6	17723.6
47.5°	24746.3	24593.5	24911.3	25508.0	26554.9	27719.9	29328.9	27950.1	26402.1	26068.1	19501.7
50°	22795.1	22839.9	23294.1	24379.7	25962.2	27964.3	30962.4	30322.8	29339.1	29027.5	21927.4
52.5°	19593.3	19601.5	20880.6	22662.7	24911.3	27838.0	31868.7	33355.5	33349.4	32972.6	24237.1
55°	16619.7	16801.0	17813.2	20182.0	23208.5	27332.9	32502.1	34830.1	35982.9	35540.9	26389.9
57.5°	13715.3	13821.3	14780.6	17159.5	20778.7	25986.6	33151.9	36600.0	39017.6	38738.6	29066.2
60°	10411.8	10574.7	11566.6	13764.2	17670.7	23597.6	33213.0	38447.4	42645.1	42364.0	32054.1
62.5°	6757.9	7038.9	7967.7	10026.8	13910.9	20161.6	31795.4	39655.1	46083.1	45983.3	34705.9
65°	3884.0	4095.9	4741.5	6330.2	9597.1	15847.8	28424.6	39190.8	48199.2	48142.2	35697.8
66°	3173.2	3305.6	3800.5	4947.2	7918.8	13917.0	26465.3	38211.1	48409.0	48411.0	35583.7
67.5°	2537.8	2596.8	2818.8	3541.9	5843.4	11030.9	22964.1	36050.1	48148.3	48219.6	34848.5
70°	2099.9	2130.4	2199.7	2374.8	3189.5	6652.0	16300.0	30434.9	45531.1	45586.1	31978.7
72.5°	1884.0	1902.3	1928.8	1953.2	2250.6	3717.0	9955.5	24347.1	39919.9	39991.2	27605.8
75°	1706.8	1717.0	1712.9	1714.9	1888.0	2368.7	5144.8	18177.8	32278.1	32135.5	21147.4
77.5°	1499.0	1509.2	1488.9	1492.9	1670.1	1820.8	2560.2	12725.5	21782.8	20776.7	11914.9
80°	1266.8	1275.0	1266.8	1281.1	1454.2	1374.8	1488.9	7159.1	9631.7	9110.3	4236.4
82.5°	957.3	991.9	1016.3	1073.4	1197.6	977.6	996.0	2788.3	2932.9	2792.4	1299.4
85°	419.6	511.2	765.8	820.8	900.2	586.6	653.8	1136.5	1193.5	1156.9	472.5
87.5°	110.0	120.2	378.8	476.6	499.0	264.8	340.1	517.3	545.8	517.3	156.8
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°	5478.8	5478.8	5478.8	5478.8	5478.8	5478.8	5478.8	5478.8	5478.8	5478.8	5478.8
2.5°	5539.9	5440.1	5260.9	5102.0	4981.8	4900.4	4818.9	4778.2	4753.7	4729.3	4733.4
5°	5717.1	5515.5	5207.9	4990.0	4867.8	4790.4	4749.7	4733.4	4723.2	4698.7	4698.7
7.5°	5983.9	5698.8	5275.1	5051.1	4955.4	4896.3	4871.9	4863.7	4851.5	4823.0	4827.1
10°	6320.0	5920.8	5415.7	5197.7	5110.2	5045.0	5010.4	4998.1	4975.7	4943.1	4947.2
12.5°	6715.1	6195.7	5601.0	5372.9	5267.0	5179.4	5122.4	5087.8	5049.1	5006.3	5008.3
15°	7146.9	6495.1	5800.6	5529.7	5385.1	5262.9	5171.3	5112.2	5051.1	4998.1	4996.1
17.5°	7584.8	6784.3	5953.4	5615.3	5419.7	5258.8	5134.6	5042.9	4967.6	4902.4	4896.3
20°	8057.3	7045.1	6038.9	5607.1	5354.6	5163.1	4998.1	4884.1	4800.6	4735.4	4725.2
22.5°	8538.0	7289.5	6053.2	5523.6	5210.0	4975.7	4802.6	4676.3	4590.8	4523.6	4499.1
25°	8977.9	7478.9	5994.1	5362.7	5008.3	4755.8	4586.7	4458.4	4389.2	4309.7	4285.3
27.5°	9379.1	7611.3	5876.0	5157.0	4782.2	4533.8	4374.9	4264.9	4189.6	4128.5	4108.1
30°	9739.6	7682.5	5682.5	4912.6	4550.1	4324.0	4189.6	4114.2	4049.0	3971.6	3957.4
32.5°	10081.8	7682.5	5434.0	4645.8	4319.9	4138.6	4059.2	4012.4	3939.0	3863.7	3843.3
35°	10424.0	7635.7	5140.7	4366.8	4108.1	4006.2	4002.2	3947.2	3835.2	3733.3	3706.8
37.5°	10784.5	7540.0	4810.8	4106.0	3935.0	3947.2	3981.8	3859.6	3700.7	3556.1	3517.4
40°	11191.8	7407.6	4468.6	3880.0	3790.4	3920.7	3926.8	3733.3	3423.7	3291.4	3256.7
42.5°	11670.5	7275.2	4150.9	3680.4	3676.3	3841.3	3822.9	3460.4	3275.1	3207.9	3189.5
45°	12299.8	7199.8	3849.4	3491.0	3586.7	3713.0	3645.7	3309.7	3232.3	3193.6	3177.3
47.5°	13291.7	7238.5	3572.4	3340.2	3497.1	3584.6	3315.8	3248.6	3193.6	3146.7	3130.5
50°	14534.1	7216.1	3348.4	3236.4	3395.2	3450.2	3167.1	3169.2	3140.6	3087.7	3063.2
52.5°	15469.0	7041.0	3203.8	3177.3	3305.6	3211.9	3073.4	3091.8	3077.5	3000.1	2973.6
55°	16371.2	6890.3	3130.5	3154.9	3240.4	2914.6	2963.4	3008.3	2994.0	2918.6	2906.4
57.5°	17493.5	6861.7	3085.6	3161.0	3185.4	2765.9	2857.5	2916.6	2906.4	2873.8	2867.7
60°	18868.3	6869.9	3044.9	3171.2	3124.3	2655.9	2757.7	2833.1	2839.2	2833.1	2829.0
62.5°	19623.9	6647.9	2943.1	3142.7	3016.4	2560.2	2653.9	2763.8	2765.9	2778.1	2776.1
65°	18982.3	5983.9	2753.7	3042.9	2835.1	2480.7	2564.2	2684.4	2653.9	2708.9	2708.9
66°	18359.1	5601.0	2660.0	2977.7	2757.7	2450.2	2535.7	2643.7	2605.0	2680.3	2680.3
67.5°	17086.1	4955.4	2490.9	2839.2	2647.7	2407.4	2503.1	2576.5	2523.5	2635.5	2627.4
70°	14760.2	3833.1	2150.8	2525.5	2466.5	2344.3	2458.3	2442.0	2364.6	2535.7	2503.1
72.5°	12444.4	2912.5	1727.1	2114.1	2191.5	2264.8	2395.2	2271.0	2173.2	2293.4	2222.1
75°	9656.1	2189.5	1364.6	1643.6	1851.4	2140.6	2319.8	2073.4	1932.9	1920.6	1881.9
77.5°	5220.1	1503.1	1081.5	1254.6	1470.5	1985.8	2268.9	1861.6	1649.8	1600.9	1570.3
80°	2067.3	977.6	786.2	951.2	1028.5	1761.8	2146.7	1615.1	1360.5	1311.7	1264.8
82.5°	853.4	578.4	507.1	637.5	670.1	1507.2	1926.7	1323.9	1051.0	1454.2	1543.8
85°	366.6	317.7	301.4	330.0	378.8	1057.1	1533.7	1010.2	1134.5	1012.3	804.5
87.5°	110.0	134.4	128.3	126.3	138.5	252.6	816.7	562.1	833.0	315.7	236.3
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)