

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: P318093

Luminaire Tested: **GAN-SA9C-740-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318093
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9C-740-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 62053 lumens
Efficiency: N/A
Efficacy: 123.9 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

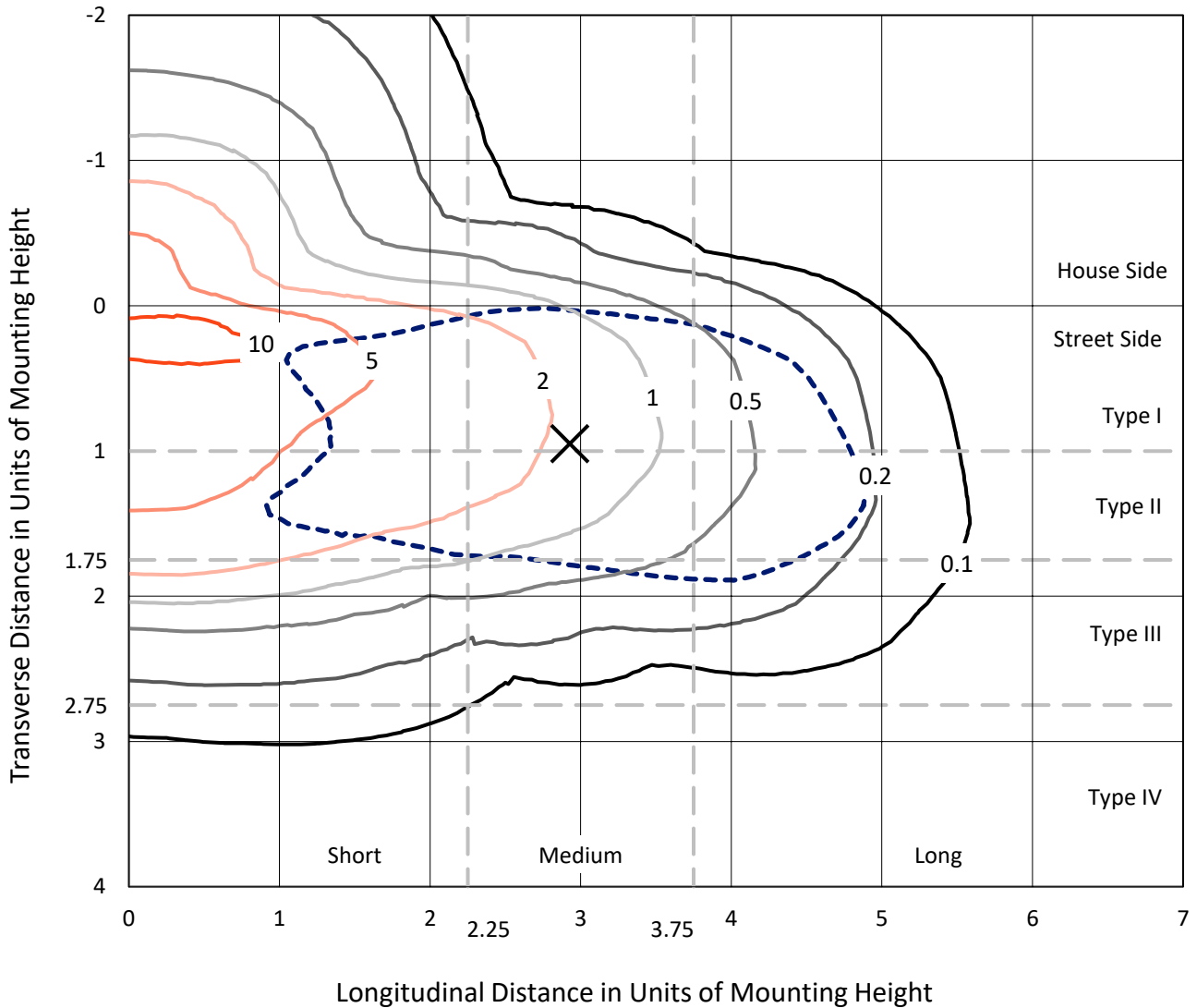
Input Watts (W): 501
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

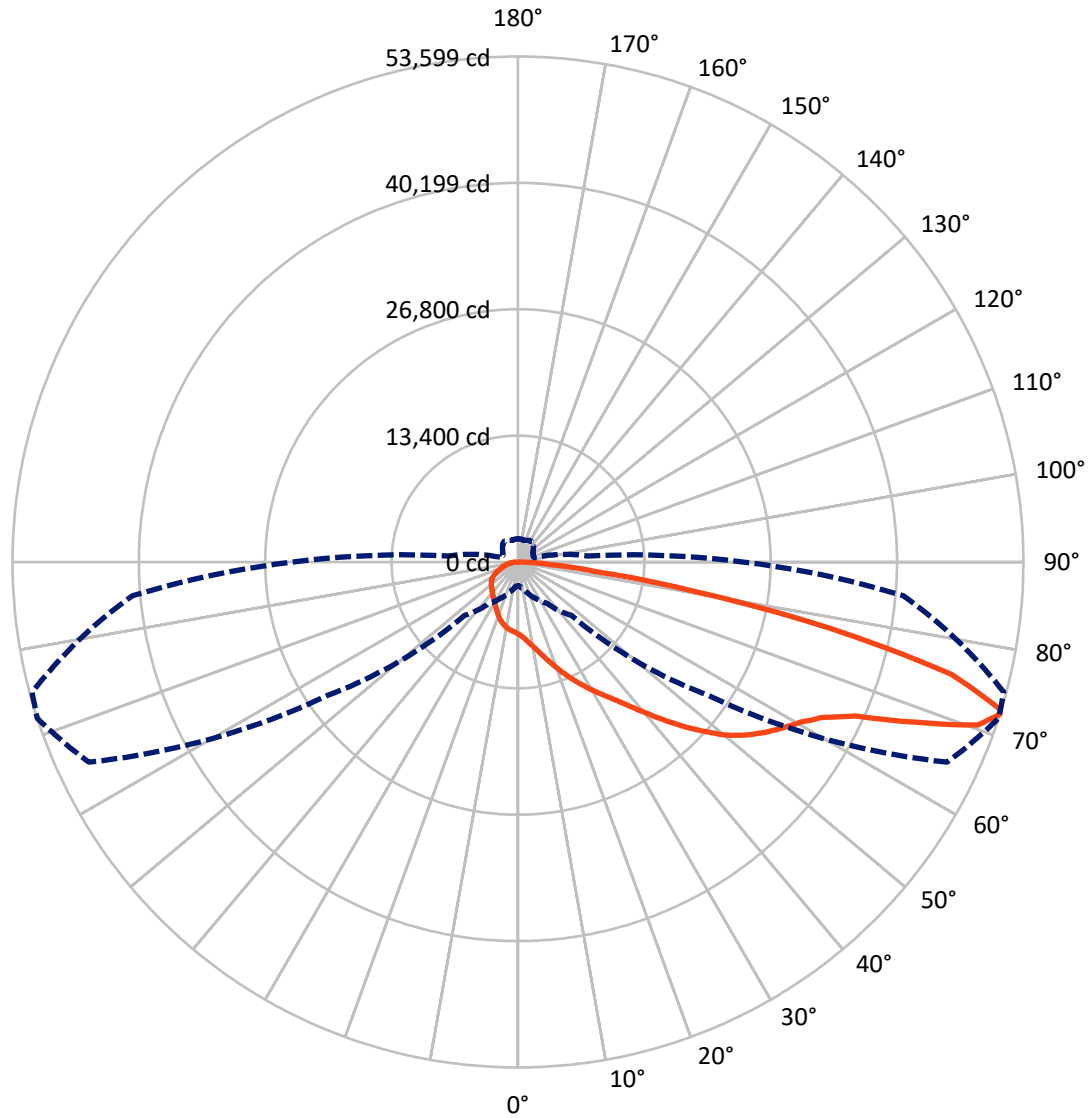
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11.7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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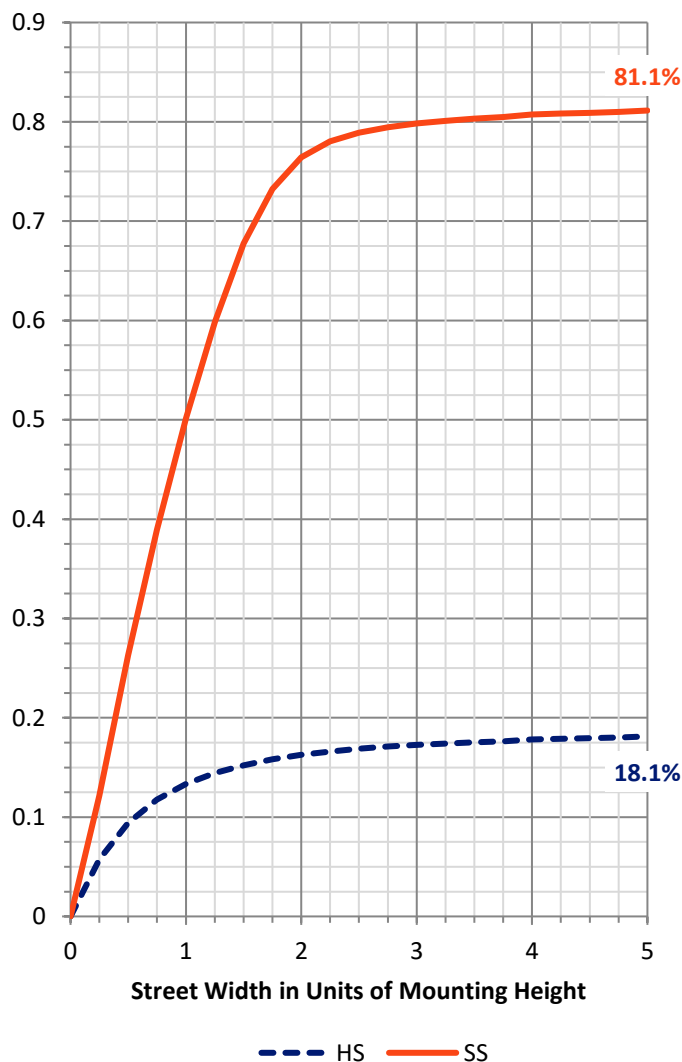
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11511.2	0.0	11511.2
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	50541.8	0.0	50541.8
	% Fixture	81.4	0.0	81.4
Total	Lumens	62053.0	0.0	62053.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	765.0	1.2
10°-20°	2472.0	4.0
20°-30°	4331.7	7.0
30°-40°	6422.6	10.4
40°-50°	9393.5	15.1
50°-60°	12925.4	20.8
60°-70°	14389.8	23.2
70°-80°	9750.5	15.7
80°-90°	1602.6	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°	62053.0	100.0
0°-180°	62053.0	100.0

Coefficient of Utilization

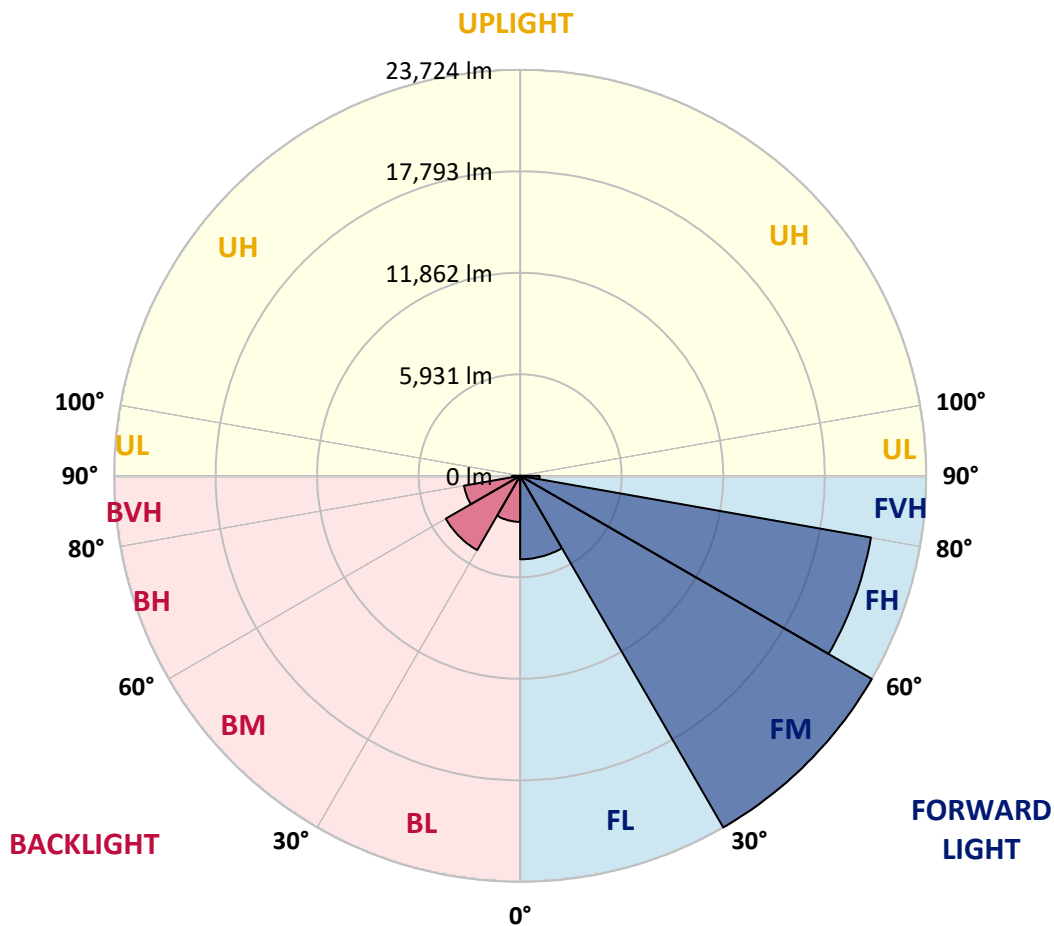


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4877.7	7.9			
FM (30°-60°)	23723.6	38.2			
FH (60°-80°)	20810.0	33.5			G5
FVH (80°-90°)	1130.4	1.8			G5
BL (0°-30°)	2690.9	4.3	B4/5000		
BM (30°-60°)	5017.8	8.1	B4/8500		
BH (60°-80°)	3330.4	5.4	B4/5000		G4/5000
BVH (80°-90°)	472.1	0.8			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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	7634.1	7634.1	7634.1	7634.1	7634.1	7634.1	7634.1	7634.1	7634.1	7634.1	7634.1
2.5°	8433.2	8420.4	8375.5	8375.5	8290.1	8217.4	8080.7	7988.8	7879.8	7841.4	7713.2
5°	9249.4	9253.7	9198.1	9159.7	9033.6	8879.8	8646.9	8435.4	8223.8	8138.4	7875.6
7.5°	9935.3	9926.7	9911.8	9879.7	9762.2	9604.1	9290.0	8975.9	8664.0	8535.8	8082.8
10°	10375.4	10394.6	10407.5	10422.4	10373.3	10260.0	9963.1	9580.6	9172.5	8997.3	8330.7
12.5°	10597.6	10631.8	10691.6	10794.2	10875.4	10862.6	10646.8	10240.8	9755.8	9535.7	8640.5
15°	10728.0	10772.8	10866.8	11050.6	11279.2	11409.5	11351.9	10984.4	10443.8	10172.4	9018.7
17.5°	10809.2	10845.5	10990.8	11236.5	11576.2	11922.3	12074.0	11766.4	11221.5	10911.7	9452.4
20°	10864.7	10892.5	11074.1	11362.5	11802.7	12353.9	12777.0	12700.1	12078.3	11676.6	9905.4
22.5°	10988.6	11012.1	11185.2	11475.8	11962.9	12674.4	13454.3	13569.7	12982.1	12527.0	10390.4
25°	11334.8	11334.8	11480.1	11683.0	12140.3	12952.2	14026.9	14537.6	13905.1	13375.2	10839.1
27.5°	11995.0	11988.6	12042.0	12112.5	12458.6	13234.2	14537.6	15392.2	14862.3	14283.3	11274.9
30°	12777.0	12819.7	12826.1	12791.9	12954.3	13586.8	15009.7	16293.9	15825.9	15202.0	11721.5
32.5°	13783.3	13811.1	13779.1	13665.8	13642.3	14086.7	15473.4	17238.2	16868.6	16161.4	12129.6
35°	15061.0	15007.6	14907.2	14676.4	14456.4	14755.5	16003.3	18182.6	18039.5	17321.6	12691.5
37.5°	16430.6	16432.7	16308.8	15785.3	15481.9	15610.1	16734.0	19253.1	19456.0	18701.8	13411.6
40°	17528.8	17586.5	17663.4	16975.4	16582.3	16759.6	17663.4	20494.4	21131.2	20338.5	14349.5
42.5°	18295.9	18362.1	18580.0	18148.4	17740.3	18069.4	18757.4	21819.1	23011.4	22227.2	15447.8
45°	19107.8	19144.1	19297.9	19112.1	18851.4	19592.8	19990.2	23190.9	25000.6	24239.9	16676.3
47.5°	19962.4	20000.9	20159.0	20035.1	19898.3	21015.8	21276.4	24483.5	26906.4	26451.3	17988.2
50°	21017.9	21043.6	21193.1	20968.8	21011.5	22088.4	22425.9	25669.3	28904.2	28438.4	19304.3
52.5°	22458.0	22464.4	22671.7	22468.7	22267.8	22874.6	23415.2	26786.8	30470.3	30250.2	20620.5
55°	23586.1	23654.5	24333.9	24291.2	24175.8	23588.3	24242.1	27850.8	31867.7	31972.4	22017.9
57.5°	22866.1	23133.2	24509.2	25479.2	26423.6	25363.8	25359.5	29049.5	33166.7	33662.4	23554.1
60°	20026.5	20389.8	22417.4	24569.0	27523.9	28453.3	27679.9	30513.0	34478.6	35337.5	25479.2
62.5°	14302.5	14900.8	17648.5	21084.2	26015.5	30500.2	32401.8	32835.6	36262.7	37277.6	27981.2
65°	7230.3	7683.3	9986.6	14125.2	20785.0	29162.7	37534.0	37920.7	39362.9	40264.6	31833.5
67.5°	4392.9	4563.8	5687.7	7856.3	12742.8	22716.5	39209.1	46396.7	45362.5	45841.1	37326.7
70°	3237.0	3363.0	4063.8	5217.6	7328.6	13330.4	34068.4	52445.4	51766.0	51712.6	41386.3
72°	2521.2	2613.1	3232.7	4215.5	5358.6	7997.4	24692.9	50212.7	53599.2	53330.0	41014.5
72.5°	2390.9	2472.1	3036.1	3967.7	5063.8	7249.5	22201.6	48706.4	53466.7	53345.0	40533.8
75°	1882.4	1940.0	2247.7	3068.2	3963.4	4113.0	12165.9	37745.5	47430.8	49402.9	36457.1
77.5°	1557.6	1566.1	1728.5	2232.8	3089.6	2907.9	5976.1	26188.5	33963.7	36132.4	25825.3
80°	1269.2	1279.8	1356.8	1566.1	2337.5	2151.6	2837.4	15058.9	19015.9	19039.4	12281.3
82.5°	1010.6	1012.8	1098.2	1145.2	1679.4	1538.4	1626.0	7070.1	8309.3	7993.1	4414.3
85°	711.5	696.5	1072.6	940.1	1098.2	987.1	897.4	2799.0	3435.7	3286.1	1382.4
87.5°	237.2	245.7	476.5	608.9	641.0	559.8	399.5	1072.6	1296.9	1286.2	438.0
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°	7634.1	7634.1	7634.1	7634.1	7634.1	7634.1	7634.1	7634.1	7634.1	7634.1	7634.1
2.5°	7672.6	7604.2	7503.8	7392.7	7305.1	7215.4	7149.1	7114.9	7076.5	7044.4	7082.9
5°	7753.8	7625.6	7411.9	7202.5	7048.7	6912.0	6813.7	6762.4	6715.4	6683.3	6687.6
7.5°	7886.3	7679.0	7320.1	7014.5	6800.9	6653.4	6553.0	6518.8	6488.9	6480.4	6491.0
10°	8027.3	7721.7	7198.3	6792.3	6548.7	6426.9	6382.1	6405.6	6426.9	6446.2	6467.5
12.5°	8187.5	7760.2	7020.9	6531.6	6324.4	6277.4	6322.3	6424.8	6499.6	6544.5	6572.2
15°	8396.9	7794.4	6815.8	6271.0	6132.1	6185.5	6337.2	6514.5	6644.9	6728.2	6741.0
17.5°	8589.2	7792.2	6553.0	6008.2	5976.1	6132.1	6360.7	6610.7	6785.9	6903.4	6926.9
20°	8787.9	7734.6	6247.5	5751.8	5818.0	6074.4	6371.4	6672.7	6884.2	7020.9	7053.0
22.5°	8973.8	7634.1	5912.0	5518.9	5685.5	5997.5	6330.8	6636.3	6847.9	6959.0	6993.2
25°	9099.9	7458.9	5572.3	5322.3	5568.0	5903.5	6198.3	6444.0	6602.2	6657.7	6666.2
27.5°	9164.0	7230.3	5251.8	5151.4	5446.2	5749.6	5952.6	6074.4	6119.3	6115.0	6106.5
30°	9172.5	6929.1	4976.2	5012.5	5305.2	5523.2	5619.3	5595.8	5538.1	5439.8	5448.4
32.5°	9144.7	6589.3	4745.4	4880.0	5125.7	5247.5	5251.8	5138.6	4984.7	4828.8	4786.0
35°	9153.3	6256.0	4542.5	4730.5	4907.8	4961.2	4912.1	4745.4	4536.0	4335.2	4292.5
37.5°	9247.3	5965.4	4367.2	4557.4	4666.4	4679.2	4608.7	4433.5	4279.6	4083.1	4066.0
40°	9471.6	5758.2	4200.6	4363.0	4424.9	4431.3	4330.9	4207.0	4219.8	4115.1	4113.0
42.5°	9875.5	5668.4	4053.2	4160.0	4198.5	4211.3	4134.4	4055.3	4166.4	4098.0	4074.5
45°	10396.8	5689.8	3929.2	3961.3	4031.8	4091.6	4044.6	3948.5	3991.2	3694.2	3595.9
47.5°	10999.3	5826.6	3831.0	3790.4	3912.1	4025.4	3952.7	3807.5	3655.8	3360.9	3305.3
50°	11704.4	6038.1	3741.2	3621.6	3781.8	3935.7	3863.0	3655.8	3427.1	3284.0	3264.8
52.5°	12439.4	6296.6	3651.5	3435.7	3617.3	3867.3	3831.0	3621.6	3339.5	3198.5	3172.9
55°	13272.7	6557.3	3538.2	3219.9	3440.0	3835.2	3816.0	3497.6	3273.3	3194.2	3175.0
57.5°	14308.9	6854.3	3388.7	2995.5	3273.3	3719.9	3660.0	3422.9	3204.9	3145.1	3138.7
60°	15659.3	7292.3	3172.9	2756.2	3070.3	3542.5	3529.7	3313.9	3096.0	3053.2	3044.7
62.5°	17684.8	8016.6	2875.9	2516.9	2843.8	3241.3	3358.8	3166.5	2980.6	2978.4	2982.7
65°	20825.6	9106.3	2553.3	2307.5	2615.2	2987.0	3160.1	3014.8	2863.1	2905.8	2912.2
67.5°	24466.4	10010.1	2237.0	2102.4	2382.3	2745.6	2980.6	2863.1	2707.1	2818.2	2820.3
70°	25677.9	9202.4	1959.3	1899.5	2140.9	2512.7	2786.2	2696.4	2538.3	2649.4	2638.7
72°	23895.9	7429.0	1779.8	1745.6	1959.3	2320.4	2613.1	2540.4	2384.5	2459.2	2431.5
72.5°	23334.0	7082.9	1734.9	1707.2	1910.1	2271.2	2568.2	2502.0	2346.0	2410.1	2384.5
75°	20814.9	6151.3	1491.4	1497.8	1666.6	2031.9	2316.1	2294.7	2134.5	2140.9	2132.3
77.5°	15097.3	4510.4	1256.3	1299.1	1418.7	1786.2	2061.8	2049.0	1873.8	1841.8	1835.4
80°	7006.0	2301.1	1023.4	1042.7	1166.6	1493.5	1758.4	1741.3	1600.3	1559.7	1536.2
82.5°	2399.4	1093.9	769.2	782.0	903.8	1202.9	1525.5	1514.9	1397.3	1318.3	1269.2
85°	856.8	544.8	538.4	525.6	645.3	946.5	1329.0	1271.3	1098.2	935.8	931.6
87.5°	277.8	232.9	277.8	275.6	376.0	641.0	965.8	822.6	797.0	662.4	649.5
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)