

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: P321014

Luminaire Tested: **GAN-SA0C-750-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321014
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-29)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0C-750-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 71823 lumens
Efficiency: N/A
Efficacy: 128.7 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

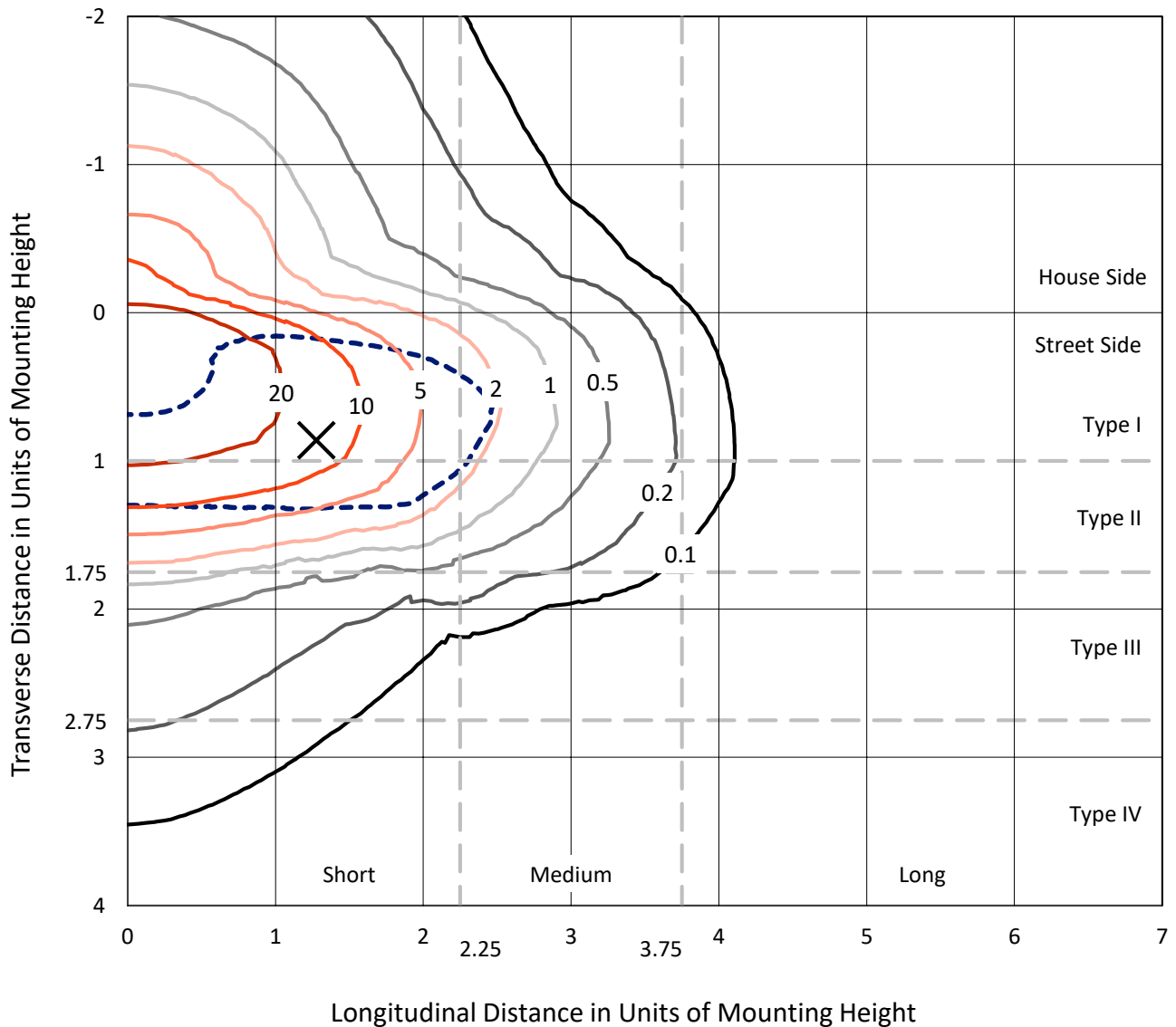
Input Watts (W): 558
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

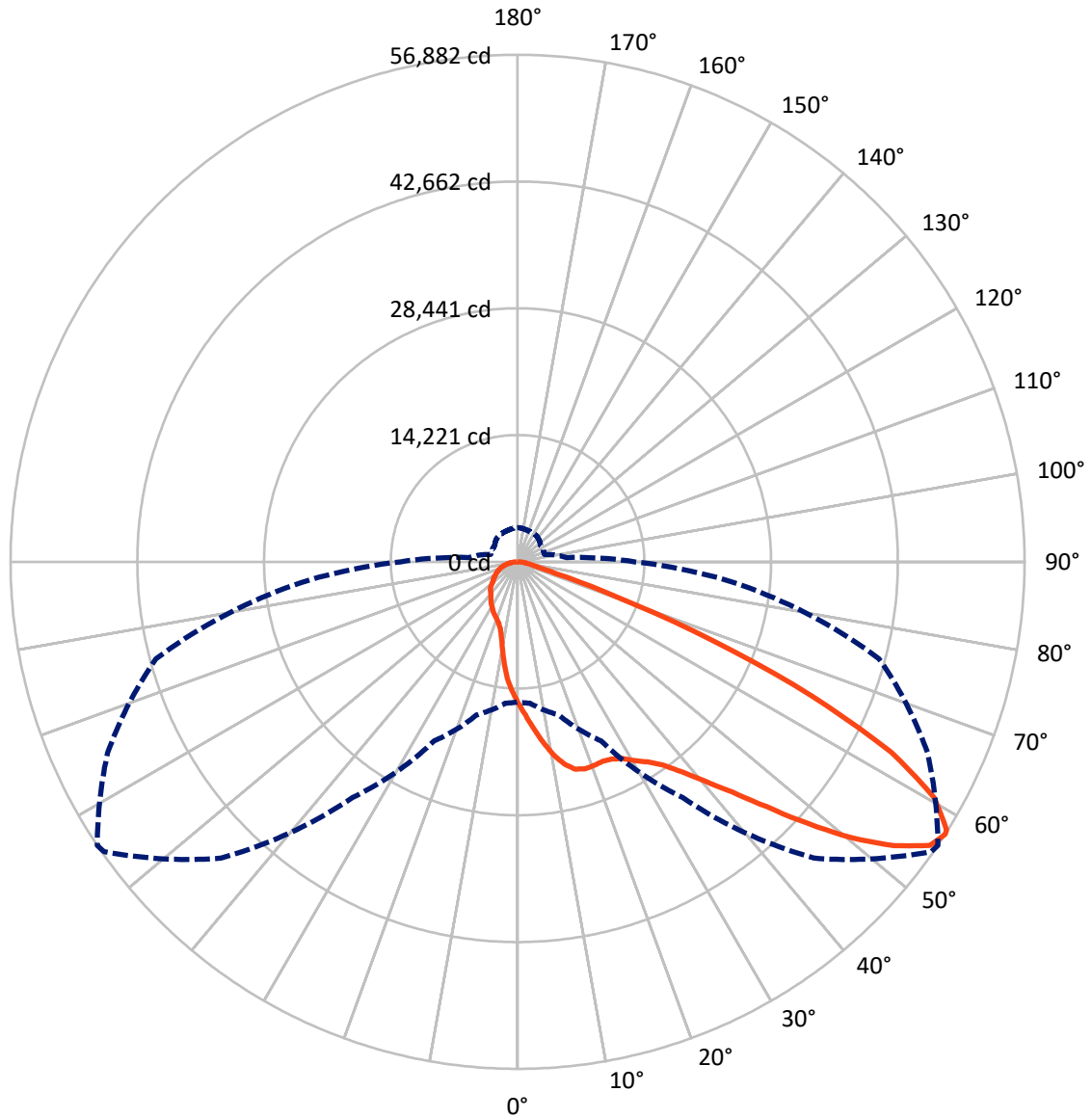
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 35.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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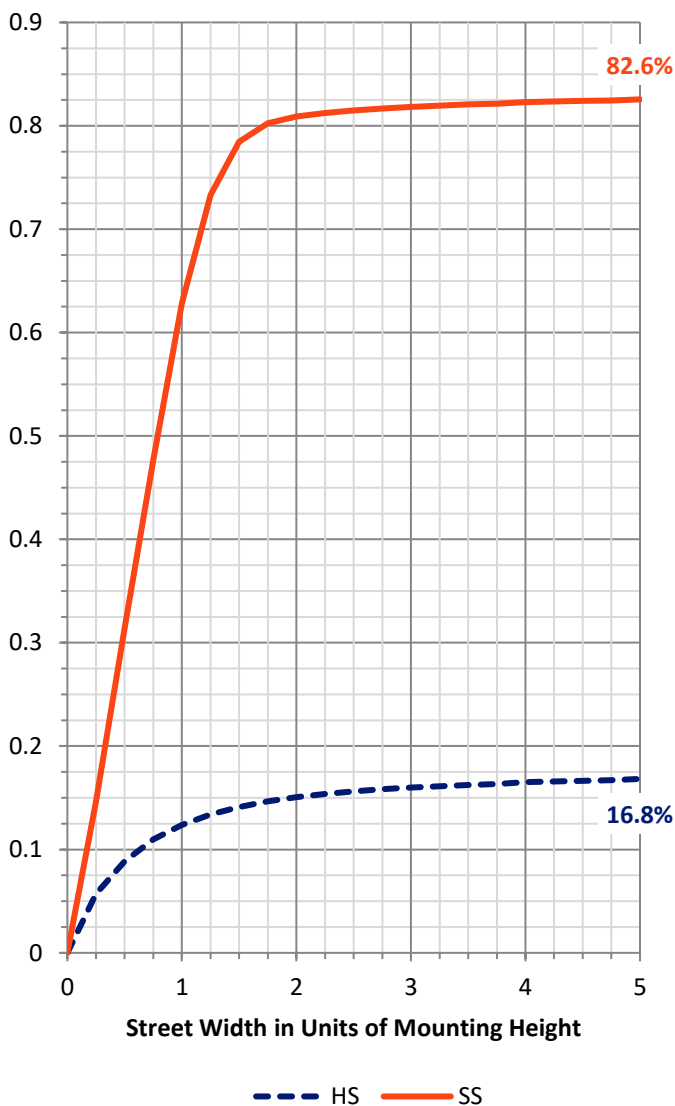
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12380.7	0.0	12380.7
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	59442.2	0.0	59442.2
	% Fixture	82.8	0.0	82.8
Total	Lumens	71823.0	0.0	71823.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1521.8	2.1
10°-20°	4302.3	6.0
20°-30°	7007.7	9.8
30°-40°	10475.7	14.6
40°-50°	15889.5	22.1
50°-60°	17809.3	24.8
60°-70°	10518.9	14.6
70°-80°	3446.4	4.8
80°-90°	851.5	1.2
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°	71823.0	100.0
0°-180°	71823.0	100.0

Coefficient of Utilization

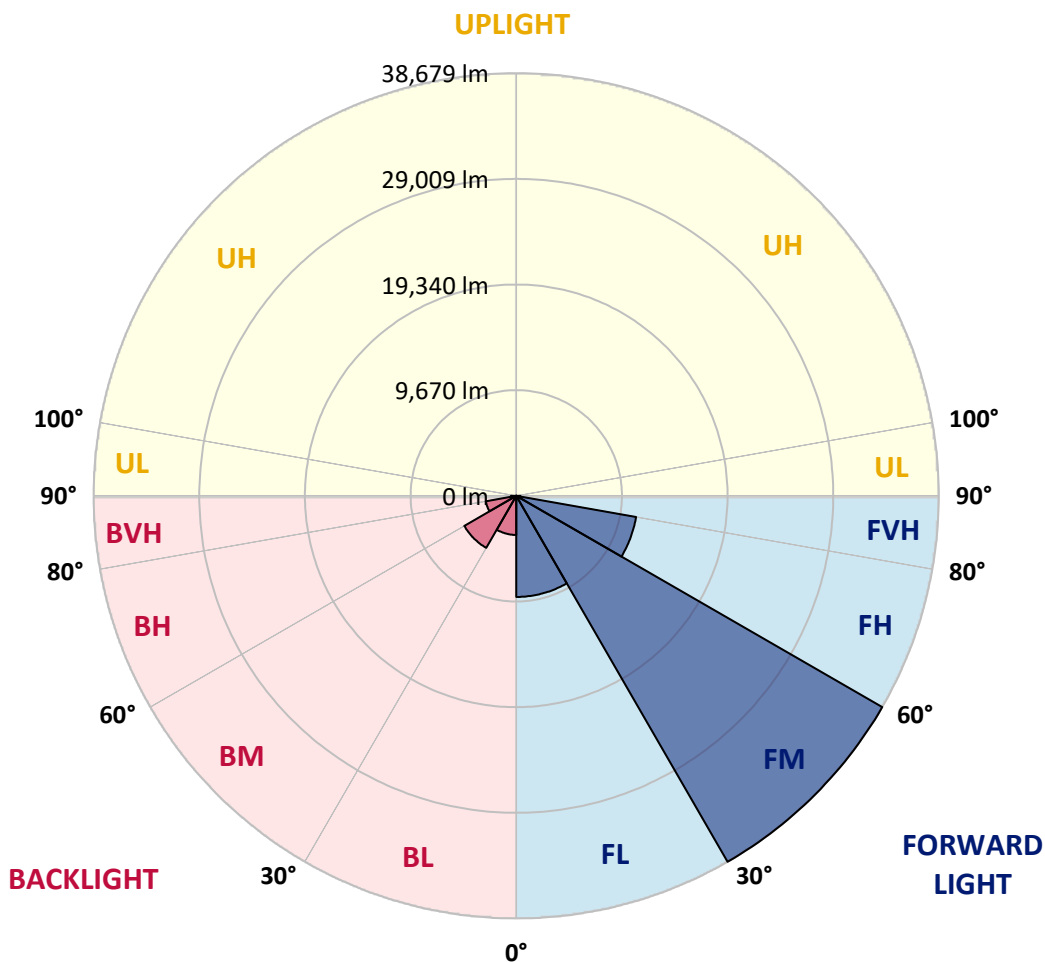


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	9251.9	12.9			
FM (30°-60°)	38679.1	53.9			
FH (60°-80°)	11136.4	15.5			G4/12000
FVH (80°-90°)	374.9	0.5			G3/500
BL (0°-30°)	3579.9	5.0	B4/5000		
BM (30°-60°)	5495.4	7.7	B4/8500		
BH (60°-80°)	2828.9	3.9	B4/5000		G4/5000
BVH (80°-90°)	476.6	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-G4
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	15930.4	15930.4	15930.4	15930.4	15930.4	15930.4	15930.4	15930.4	15930.4	15930.4	15930.4
2.5°	18292.6	18460.4	18386.4	18129.7	17932.2	17653.3	17342.3	17248.5	16920.2	16552.4	16110.6
5°	21187.9	21104.0	20983.0	20583.2	20161.1	19669.9	18889.9	18766.5	18035.9	17204.0	16325.3
7.5°	22836.7	22829.3	22757.7	22523.2	22138.2	21496.4	20556.0	20410.4	19307.0	17969.2	16606.7
10°	22597.3	22580.0	22698.5	22942.8	23058.9	22925.6	22133.2	21987.6	20632.5	18815.8	16932.5
12.5°	21237.3	21247.1	21437.2	21950.6	22649.1	23488.3	23360.0	23288.4	22007.4	19773.5	17327.5
15°	20178.4	20200.6	20351.1	20797.9	21622.3	23145.2	24105.4	24130.1	23337.8	20830.0	17789.0
17.5°	19714.3	19761.2	19830.3	20143.8	20899.1	22461.5	24283.1	24416.4	24502.8	21925.9	18233.3
20°	19862.4	19906.8	19926.6	20126.5	20746.1	22046.9	24159.7	24399.1	25396.3	22957.7	18677.6
22.5°	20526.4	20553.5	20565.9	20617.7	21099.0	22165.3	24078.3	24330.0	26043.0	23883.3	19013.3
25°	21627.2	21607.5	21528.5	21461.9	21785.2	22634.3	24265.9	24505.3	26568.8	24722.5	19233.0
27.5°	22945.3	22920.6	22767.6	22584.9	22770.1	23364.9	24806.4	24996.5	27040.2	25507.4	19344.1
30°	24527.5	24463.3	24174.5	23957.3	24028.9	24460.9	25697.5	25870.3	27768.4	26398.5	19452.7
32.5°	26356.5	26287.4	25870.3	25509.9	25509.9	25870.3	26615.7	26758.8	28385.4	27405.5	19627.9
35°	28647.1	28560.7	28017.7	27412.9	27242.6	27425.3	27867.1	27968.3	29496.2	28674.2	19946.3
37.5°	31347.4	31231.4	30527.9	29718.3	29345.6	29335.7	29654.2	29861.5	31270.9	30340.3	20486.9
40°	34055.1	33973.7	33359.1	32722.3	31991.6	31757.1	32248.3	32312.5	33591.1	32408.8	21178.0
42.5°	36148.3	36133.4	36019.9	36103.8	35355.9	34882.0	35267.1	35318.9	36424.7	34647.5	21913.6
45°	37254.0	37278.7	37829.2	39048.5	39325.0	38979.4	39169.4	39184.3	39663.1	36906.0	22587.4
47.5°	36367.9	36496.3	37888.4	40615.9	42879.3	44027.1	43711.1	43893.8	42802.8	38846.1	23115.6
50°	32914.8	33072.7	35442.3	39917.3	44538.0	48911.8	48746.5	48704.5	45335.3	40267.8	23402.0
52.5°	28637.2	28760.6	30715.5	36286.5	43321.1	51612.1	53130.2	52912.9	47586.4	41331.7	23456.3
55°	22123.4	22315.9	24189.3	29039.5	38399.3	50580.4	56353.8	56158.8	49637.5	41889.5	23392.1
57°	15728.0	15930.4	17791.5	22162.9	32302.6	47008.8	56674.6	56882.0	50745.8	41983.3	23463.7
57.5°	14034.8	14242.1	16085.9	20331.4	30402.0	45717.8	56398.2	56743.7	50945.7	41968.5	23503.2
60°	7066.7	7145.7	8320.6	11349.2	19218.2	36960.3	52792.0	53683.1	51125.9	41242.8	23673.5
62.5°	4393.6	4336.8	4299.8	5227.9	9349.9	24510.2	45350.1	47065.5	47677.7	39485.4	23261.3
65°	3862.9	3756.8	3349.5	3275.4	4129.5	11904.6	34151.4	36286.5	40309.8	36716.0	22278.9
67.5°	3628.4	3524.7	3065.6	2789.2	2791.6	4719.4	21202.7	23606.8	31401.7	32033.6	19961.1
70°	3386.5	3292.7	2863.2	2537.4	2377.0	2613.9	9754.7	11578.8	20469.6	25179.1	16683.2
72.5°	3075.5	3011.3	2604.1	2268.4	2098.1	1957.4	3734.5	4410.9	11850.3	16910.3	11586.2
75°	2749.7	2690.4	2342.4	2021.5	1814.2	1540.2	2103.0	2265.9	6020.2	8651.4	5704.2
77.5°	2391.8	2357.2	2083.2	1787.0	1621.7	1276.1	1488.4	1567.4	2581.8	3709.9	2860.8
80°	1903.1	1969.7	1821.6	1592.1	1439.0	1021.9	1054.0	1105.8	1503.2	1811.7	1624.1
82.5°	1239.1	1355.1	1426.7	1293.4	1184.8	804.7	757.8	780.0	979.9	1105.8	705.9
85°	515.9	580.1	938.0	846.6	787.4	587.5	508.5	518.3	607.2	629.4	288.8
87.5°	229.6	244.4	412.2	387.5	333.2	202.4	217.2	237.0	323.3	306.1	111.1
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°	15930.4	15930.4	15930.4	15930.4	15930.4	15930.4	15930.4	15930.4	15930.4	15930.4	15930.4
2.5°	15945.2	15737.9	15382.4	14990.0	14669.1	14412.4	14153.2	13975.5	13768.2	13657.1	13600.3
5°	15957.6	15550.3	14802.4	14034.8	13348.6	12721.6	12124.3	11665.2	11235.7	11003.7	10939.5
7.5°	16009.4	15397.3	14187.8	12924.0	11704.7	10591.5	9732.5	9194.4	8806.9	8634.1	8584.7
10°	16051.4	15217.1	13427.6	11556.6	9897.9	8769.9	8103.4	7802.3	7669.0	7646.8	7624.6
12.5°	16150.1	15031.9	12627.8	10129.9	8493.4	7713.4	7481.4	7461.7	7498.7	7553.0	7553.0
15°	16305.6	14849.3	11714.6	8905.6	7599.9	7325.9	7372.8	7481.4	7582.6	7666.5	7678.9
17.5°	16419.1	14624.7	10732.2	7925.7	7123.5	7197.6	7365.4	7518.4	7622.1	7703.6	7711.0
20°	16500.6	14276.6	9683.1	7177.8	6849.5	7079.1	7288.9	7424.6	7496.2	7577.7	7590.0
22.5°	16458.6	13810.1	8752.6	6642.2	6627.4	6906.3	7106.2	7269.1	7214.8	7135.9	7187.7
25°	16256.2	13168.4	7794.9	6242.3	6392.9	6674.3	6921.1	6812.5	6629.9	6595.3	6615.0
27.5°	15895.9	12348.9	6908.8	5872.1	6121.4	6459.5	6444.7	6336.1	6271.9	6227.5	6254.7
30°	15508.3	11460.3	6133.7	5548.7	5820.3	6099.2	6042.4	6039.9	5975.8	5904.2	5938.7
32.5°	15125.7	10566.8	5519.1	5282.2	5593.2	5630.2	5753.6	5790.6	5664.7	5514.2	5504.3
35°	14792.5	9722.6	5052.6	5040.3	5319.2	5324.1	5504.3	5452.5	5139.0	4983.5	4983.5
37.5°	14543.2	8880.9	4697.2	4823.1	4958.8	5087.2	5178.5	4963.8	4911.9	4825.5	4823.1
40°	14434.6	8140.5	4475.0	4657.7	4704.6	4867.5	4633.0	4716.9	4741.6	4697.2	4697.2
42.5°	14321.1	7496.2	4282.5	4531.8	4524.4	4502.2	4383.7	4492.3	4591.0	4593.5	4586.1
45°	14207.5	6940.9	4112.2	4262.8	4366.4	4127.0	4149.2	4265.2	4403.4	4452.8	4452.8
47.5°	14081.7	6501.5	3956.7	3978.9	4139.3	3978.9	3961.6	4050.5	4213.4	4292.4	4309.7
50°	13805.2	6106.6	3779.0	3729.6	3774.0	3828.3	3843.1	3885.1	4065.3	4191.2	4220.8
52.5°	13422.6	5753.6	3551.9	3500.0	3500.0	3704.9	3774.0	3786.4	3939.4	4090.0	4119.6
55°	13104.2	5529.0	3317.4	3307.5	3297.6	3574.1	3692.6	3712.3	3818.5	3936.9	3951.7
57°	13126.4	5511.7	3137.2	3147.1	3144.6	3440.8	3616.1	3658.0	3712.3	3813.5	3830.8
57.5°	13138.8	5524.1	3097.7	3102.7	3100.2	3403.8	3593.8	3640.7	3682.7	3788.8	3806.1
60°	13323.9	5556.1	2937.3	2883.0	2895.3	3206.3	3468.0	3527.2	3554.4	3695.0	3717.3
62.5°	13049.9	5413.0	2808.9	2678.1	2678.1	2999.0	3292.7	3386.5	3428.5	3618.5	3655.6
65°	12255.1	5010.6	2658.4	2446.1	2470.8	2791.6	3082.9	3235.9	3300.1	3537.1	3576.6
67.5°	11028.4	4544.1	2497.9	2238.7	2263.4	2574.4	2865.7	3031.1	3132.3	3448.2	3480.3
70°	9431.4	3974.0	2280.7	2019.1	2048.7	2337.5	2609.0	2796.6	2947.1	3364.3	3374.2
72.5°	6953.2	3258.2	1977.1	1777.2	1809.3	2061.0	2349.8	2567.0	2769.4	3154.5	3149.6
75°	4134.4	2547.3	1641.4	1532.8	1555.0	1789.5	2115.3	2379.4	2683.0	3073.0	3119.9
77.5°	2507.8	1917.9	1337.8	1283.5	1310.7	1550.1	1947.5	2228.9	2646.0	2897.8	2883.0
80°	1515.5	1369.9	1068.8	1034.2	1061.4	1325.5	1801.9	2115.3	2312.8	2475.7	2475.7
82.5°	792.3	836.8	784.9	757.8	794.8	1076.2	1639.0	1846.3	2043.8	1755.0	1639.0
85°	323.3	436.9	476.4	473.9	496.1	745.4	1414.3	1579.7	1318.1	1251.4	1281.0
87.5°	108.6	185.1	232.0	199.9	209.8	469.0	979.9	762.7	905.9	631.9	599.8
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)