

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: P320944

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320944
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-SA0D-730-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 71753 lumens
Efficiency: N/A
Efficacy: 112.1 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

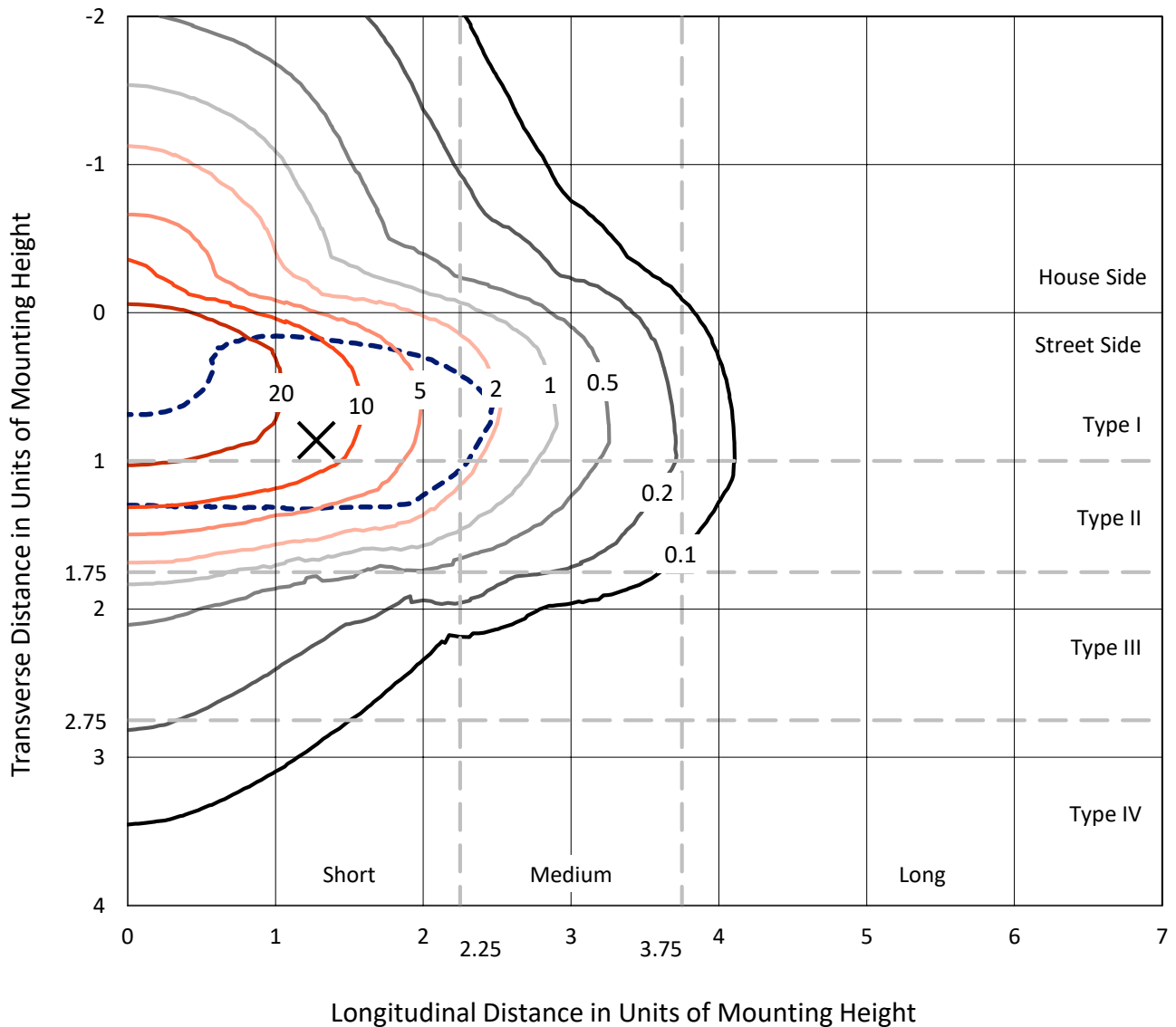
Input Watts (W): 640
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

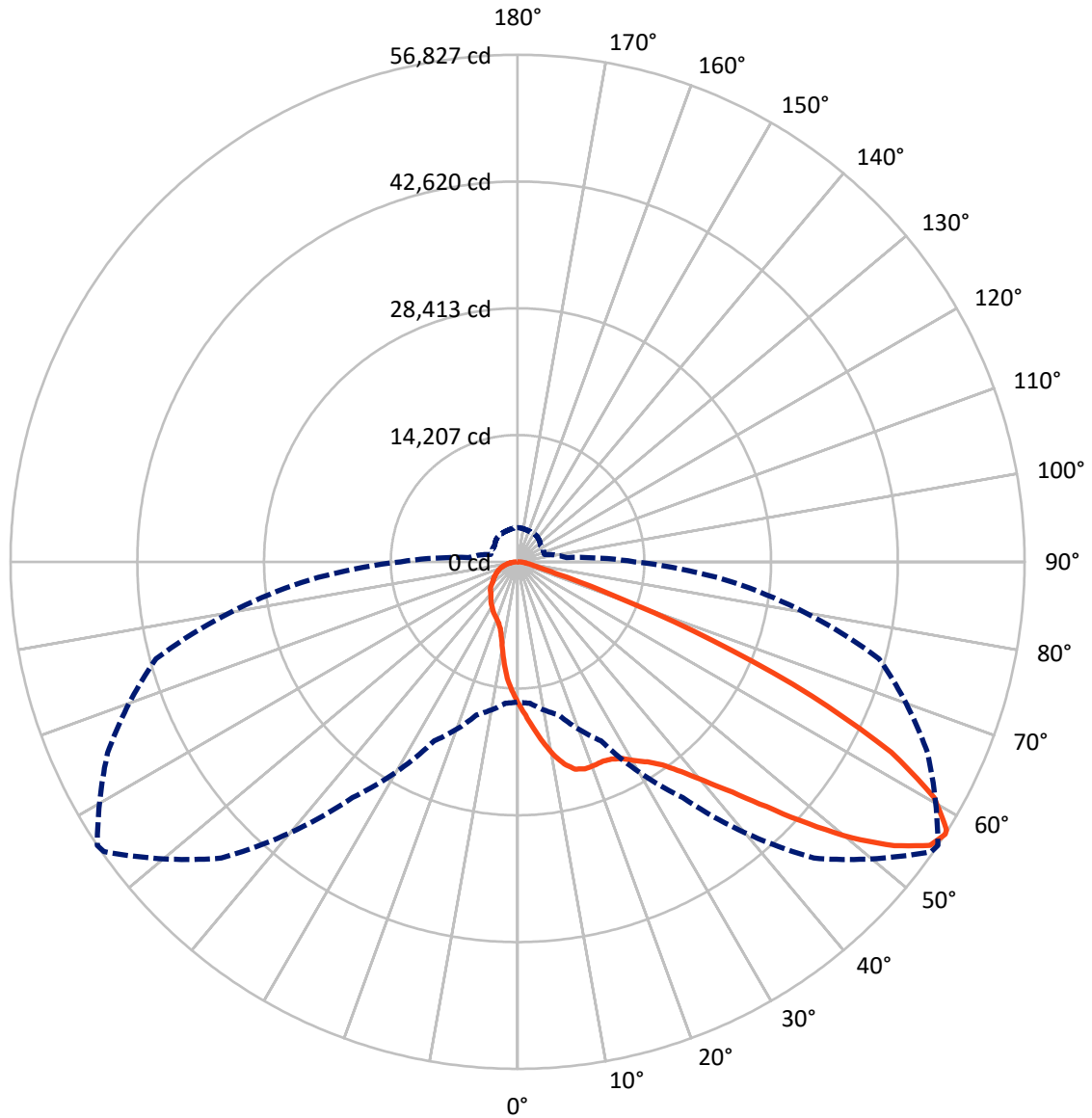
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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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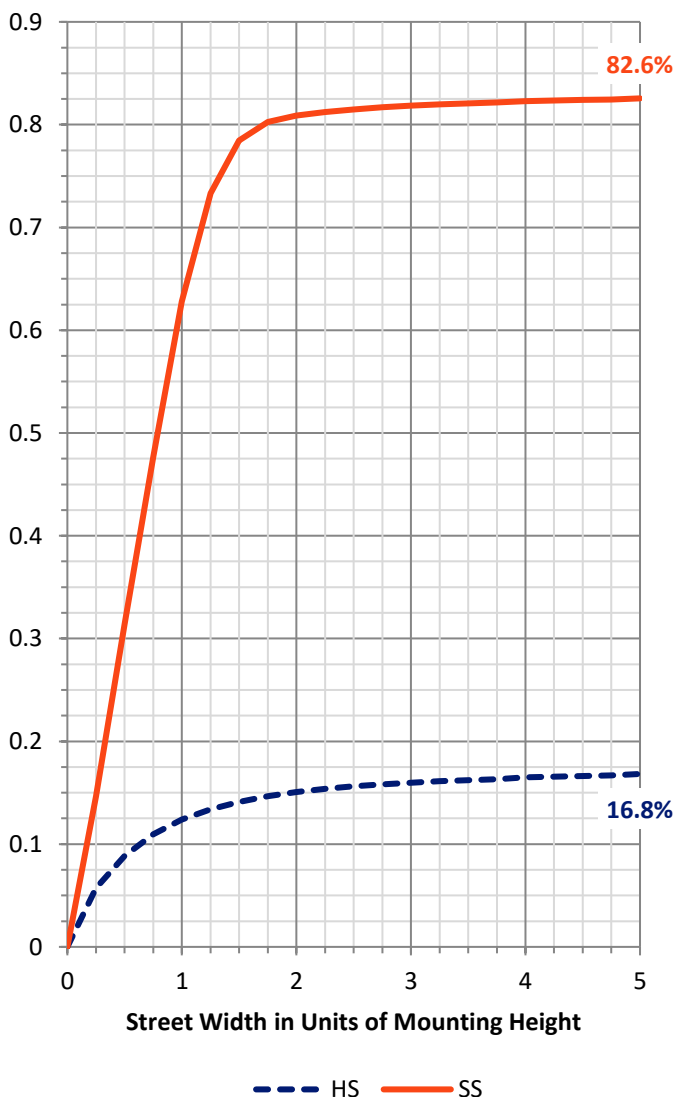
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12368.7	0.0	12368.7
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	59384.3	0.0	59384.3
	% Fixture	82.8	0.0	82.8
Total	Lumens	71753.0	0.0	71753.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1520.3	2.1
10°-20°	4298.1	6.0
20°-30°	7000.9	9.8
30°-40°	10465.5	14.6
40°-50°	15874.0	22.1
50°-60°	17791.9	24.8
60°-70°	10508.6	14.6
70°-80°	3443.0	4.8
80°-90°	850.6	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°	71753.0	100.0
0°-180°	71753.0	100.0

Coefficient of Utilization

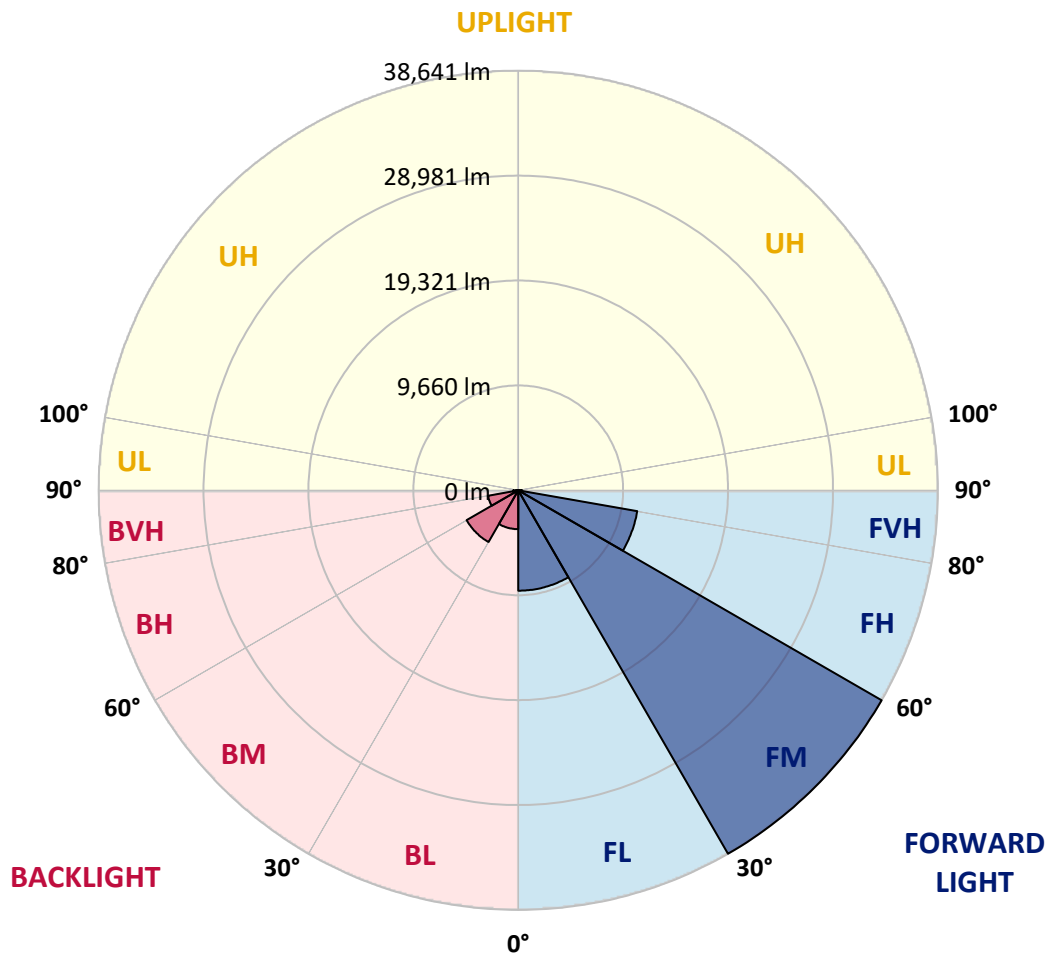


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	9242.9	12.9			
FM (30°-60°)	38641.4	53.9			
FH (60°-80°)	11125.5	15.5			G4/12000
FVH (80°-90°)	374.6	0.5			G3/500
BL (0°-30°)	3576.4	5.0	B4/5000		
BM (30°-60°)	5490.0	7.7	B4/8500		
BH (60°-80°)	2826.1	3.9	B4/5000		G4/5000
BVH (80°-90°)	476.1	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°	15914.9	15914.9	15914.9	15914.9	15914.9	15914.9	15914.9	15914.9	15914.9	15914.9	15914.9
2.5°	18274.7	18442.4	18368.4	18112.0	17914.7	17636.1	17325.4	17231.7	16903.7	16536.3	16094.9
5°	21167.2	21083.4	20962.6	20563.1	20141.4	19650.7	18871.5	18748.2	18018.3	17187.3	16309.4
7.5°	22814.5	22807.1	22735.5	22501.3	22116.6	21475.5	20536.0	20390.5	19288.2	17951.7	16590.5
10°	22575.3	22558.0	22676.4	22920.5	23036.4	22903.2	22111.7	21966.2	20612.4	18797.5	16916.0
12.5°	21216.6	21226.4	21416.3	21929.2	22627.0	23465.4	23337.2	23265.7	21985.9	19754.3	17310.6
15°	20158.7	20180.9	20331.3	20777.6	21601.2	23122.7	24081.9	24106.6	23315.0	20809.7	17771.7
17.5°	19695.1	19741.9	19811.0	20124.2	20878.7	22439.6	24259.5	24392.6	24478.9	21904.5	18215.6
20°	19843.1	19887.4	19907.2	20106.9	20725.8	22025.4	24136.2	24375.4	25371.6	22935.3	18659.4
22.5°	20506.4	20533.5	20545.8	20597.6	21078.5	22143.7	24054.8	24306.3	26017.6	23860.0	18994.8
25°	21606.2	21586.4	21507.5	21440.9	21764.0	22612.2	24242.2	24481.4	26542.9	24698.4	19214.2
27.5°	22923.0	22898.3	22745.4	22562.9	22747.9	23342.2	24782.2	24972.1	27013.9	25482.5	19325.2
30°	24503.6	24439.5	24151.0	23934.0	24005.5	24437.0	25672.4	25845.0	27741.3	26372.7	19433.7
32.5°	26330.8	26261.8	25845.0	25485.0	25485.0	25845.0	26589.7	26732.8	28357.8	27378.8	19608.8
35°	28619.2	28532.9	27990.4	27386.2	27216.1	27398.5	27839.9	27941.0	29467.4	28646.3	19926.9
37.5°	31316.9	31201.0	30498.2	29689.4	29317.0	29307.2	29625.3	29832.4	31240.4	30310.8	20466.9
40°	34021.9	33940.6	33326.6	32690.4	31960.5	31726.2	32216.9	32281.0	33558.4	32377.2	21157.4
42.5°	36113.0	36098.2	35984.8	36068.6	35321.5	34848.0	35232.7	35284.5	36389.2	34613.8	21892.2
45°	37217.7	37242.4	37792.3	39010.4	39286.6	38941.4	39131.3	39146.1	39624.5	36870.0	22565.4
47.5°	36332.5	36460.7	37851.5	40576.3	42837.5	43984.2	43668.5	43851.0	42761.1	38808.2	23093.1
50°	32882.7	33040.5	35407.8	39878.4	44494.6	48864.2	48698.9	48657.0	45291.1	40228.6	23379.1
52.5°	28609.3	28732.6	30685.6	36251.1	43278.9	51561.8	53078.4	52861.4	47540.0	41291.4	23433.4
55°	22101.8	22294.1	24165.8	29011.2	38361.9	50531.1	56298.8	56104.0	49589.1	41848.7	23369.3
57°	15712.7	15914.9	17774.2	22141.3	32271.2	46963.0	56619.4	56826.5	50696.3	41942.4	23440.8
57.5°	14021.1	14228.2	16070.2	20311.6	30372.4	45673.3	56343.2	56688.4	50896.1	41927.6	23480.2
60°	7059.9	7138.8	8312.5	11338.2	19199.5	36924.3	52740.5	53630.7	51076.1	41202.6	23650.4
62.5°	4389.3	4332.6	4295.6	5222.8	9340.8	24486.3	45305.9	47019.7	47631.2	39446.9	23238.6
65°	3859.1	3753.1	3346.2	3272.2	4125.4	11893.0	34118.1	36251.1	40270.5	36680.2	22257.2
67.5°	3624.9	3521.3	3062.6	2786.5	2788.9	4714.8	21182.0	23583.8	31371.1	32002.4	19941.7
70°	3383.2	3289.5	2860.4	2534.9	2374.7	2611.4	9745.2	11567.5	20449.7	25154.6	16667.0
72.5°	3072.5	3008.4	2601.5	2266.2	2096.0	1955.5	3730.9	4406.6	11838.8	16893.8	11574.9
75°	2747.0	2687.8	2340.1	2019.6	1812.4	1538.7	2100.9	2263.7	6014.3	8643.0	5698.7
77.5°	2389.5	2354.9	2081.2	1785.3	1620.1	1274.9	1486.9	1565.8	2579.3	3706.2	2858.0
80°	1901.2	1967.8	1819.8	1590.5	1437.6	1020.9	1052.9	1104.7	1501.7	1810.0	1622.6
82.5°	1237.9	1353.8	1425.3	1292.1	1183.6	803.9	757.0	779.2	979.0	1104.7	705.2
85°	515.4	579.5	937.0	845.8	786.6	586.9	508.0	517.8	606.6	628.8	288.5
87.5°	229.3	244.1	411.8	387.1	332.9	202.2	217.0	236.7	323.0	305.8	111.0
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°	15914.9	15914.9	15914.9	15914.9	15914.9	15914.9	15914.9	15914.9	15914.9	15914.9	15914.9
2.5°	15929.7	15722.5	15367.5	14975.4	14654.8	14398.4	14139.4	13961.9	13754.8	13643.8	13587.1
5°	15942.0	15535.1	14788.0	14021.1	13335.6	12709.2	12112.5	11653.8	11224.8	10993.0	10928.8
7.5°	15993.8	15382.2	14174.0	12911.4	11693.3	10581.2	9723.0	9185.5	8798.3	8625.7	8576.4
10°	16035.7	15202.2	13414.5	11545.3	9888.2	8761.3	8095.5	7794.7	7661.5	7639.3	7617.1
12.5°	16134.3	15017.3	12615.5	10120.0	8485.1	7705.9	7474.1	7454.4	7491.4	7545.6	7545.6
15°	16289.7	14834.8	11703.1	8896.9	7592.5	7318.8	7365.6	7474.1	7575.2	7659.1	7671.4
17.5°	16403.1	14610.4	10721.7	7918.0	7116.6	7190.5	7358.2	7511.1	7614.7	7696.1	7703.5
20°	16484.5	14262.7	9673.7	7170.8	6842.9	7072.2	7281.8	7417.4	7488.9	7570.3	7582.6
22.5°	16442.6	13796.7	8744.1	6635.7	6620.9	6899.6	7099.3	7262.1	7207.8	7128.9	7180.7
25°	16240.4	13155.5	7787.3	6236.2	6386.7	6667.8	6914.4	6805.9	6623.4	6588.9	6608.6
27.5°	15880.4	12336.9	6902.0	5866.4	6115.4	6453.2	6438.4	6330.0	6265.8	6221.5	6248.6
30°	15493.2	11449.1	6127.7	5543.3	5814.6	6093.2	6036.5	6034.0	5969.9	5898.4	5932.9
32.5°	15111.0	10556.5	5513.7	5277.0	5587.7	5624.7	5748.0	5785.0	5659.2	5508.8	5498.9
35°	14778.1	9713.2	5047.7	5035.4	5314.0	5318.9	5498.9	5447.2	5134.0	4978.6	4978.6
37.5°	14529.0	8872.3	4692.6	4818.4	4954.0	5082.2	5173.4	4958.9	4907.1	4820.8	4818.4
40°	14420.5	8132.5	4470.7	4653.1	4700.0	4862.7	4628.5	4712.3	4737.0	4692.6	4692.6
42.5°	14307.1	7488.9	4278.3	4527.4	4520.0	4497.8	4379.4	4487.9	4586.6	4589.0	4581.6
45°	14193.7	6934.1	4108.2	4258.6	4362.2	4123.0	4145.2	4261.1	4399.2	4448.5	4448.5
47.5°	14067.9	6495.2	3952.8	3975.0	4135.3	3975.0	3957.8	4046.5	4209.3	4288.2	4305.5
50°	13791.7	6100.6	3775.3	3726.0	3770.4	3824.6	3839.4	3881.3	4061.3	4187.1	4216.7
52.5°	13409.5	5748.0	3548.4	3496.6	3496.6	3701.3	3770.4	3782.7	3935.6	4086.0	4115.6
55°	13091.4	5523.6	3314.2	3304.3	3294.4	3570.6	3689.0	3708.7	3814.7	3933.1	3947.9
57°	13113.6	5506.3	3134.2	3144.0	3141.5	3437.5	3612.5	3654.5	3708.7	3809.8	3827.1
57.5°	13126.0	5518.7	3094.7	3099.6	3097.2	3400.5	3590.3	3637.2	3679.1	3785.1	3802.4
60°	13310.9	5550.7	2934.4	2880.2	2892.5	3203.2	3464.6	3523.8	3550.9	3691.4	3713.6
62.5°	13037.2	5407.7	2806.2	2675.5	2675.5	2996.1	3289.5	3383.2	3425.1	3615.0	3652.0
65°	12243.2	5005.8	2655.8	2443.7	2468.4	2788.9	3079.9	3232.8	3296.9	3533.6	3573.1
67.5°	11017.6	4539.7	2495.5	2236.6	2261.2	2571.9	2862.9	3028.1	3129.2	3444.9	3476.9
70°	9422.2	3970.1	2278.5	2017.1	2046.7	2335.2	2606.5	2793.9	2944.3	3361.0	3370.9
72.5°	6946.4	3255.0	1975.2	1775.4	1807.5	2059.0	2347.5	2564.5	2766.7	3151.4	3146.5
75°	4130.4	2544.8	1639.8	1531.3	1553.5	1787.8	2113.3	2377.1	2680.4	3070.0	3116.9
77.5°	2505.3	1916.0	1336.5	1282.3	1309.4	1548.6	1945.6	2226.7	2643.4	2895.0	2880.2
80°	1514.1	1368.6	1067.7	1033.2	1060.3	1324.2	1800.1	2113.3	2310.5	2473.3	2473.3
82.5°	791.6	835.9	784.2	757.0	794.0	1075.1	1637.4	1844.5	2041.8	1753.3	1637.4
85°	323.0	436.5	475.9	473.5	495.6	744.7	1413.0	1578.2	1316.8	1250.2	1279.8
87.5°	108.5	184.9	231.8	199.7	209.6	468.5	979.0	762.0	905.0	631.3	599.2
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)