

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: P317453

Luminaire Tested: **GAN-SA9C-740-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317453
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-740-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 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: 65876 lumens
Efficiency: N/A
Efficacy: 131.5 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G5

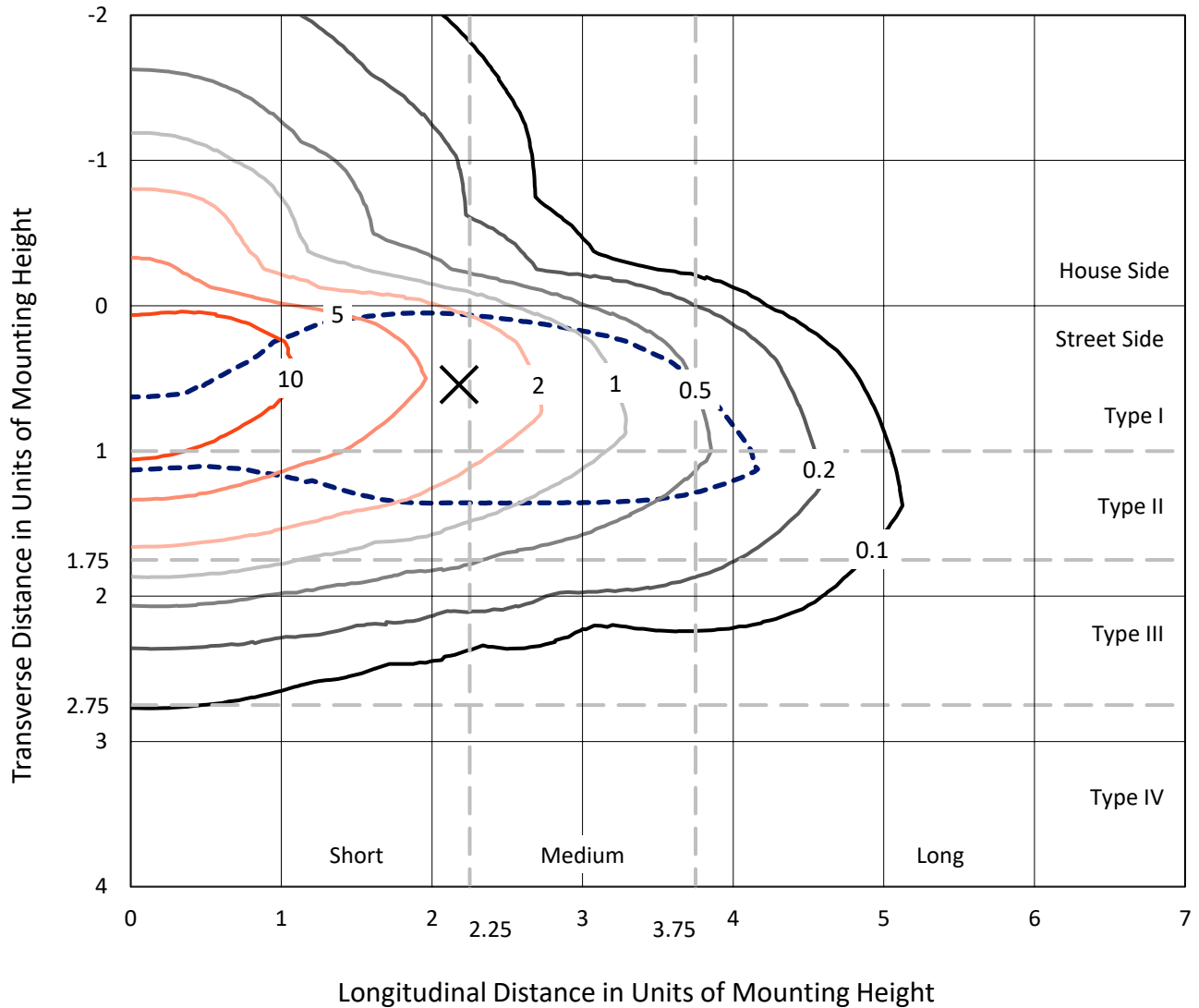
Input Watts (W): 501
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

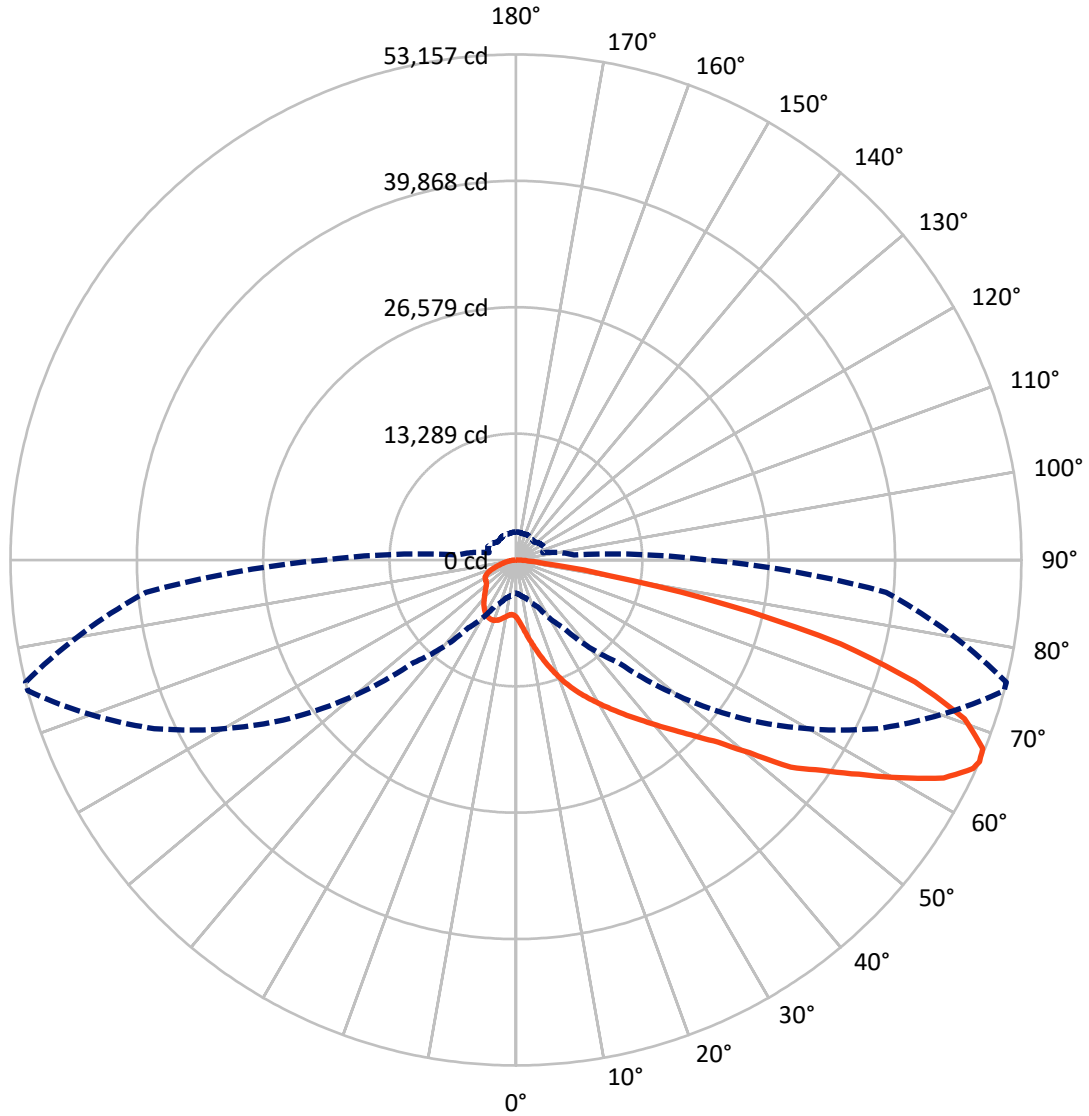
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 17.7 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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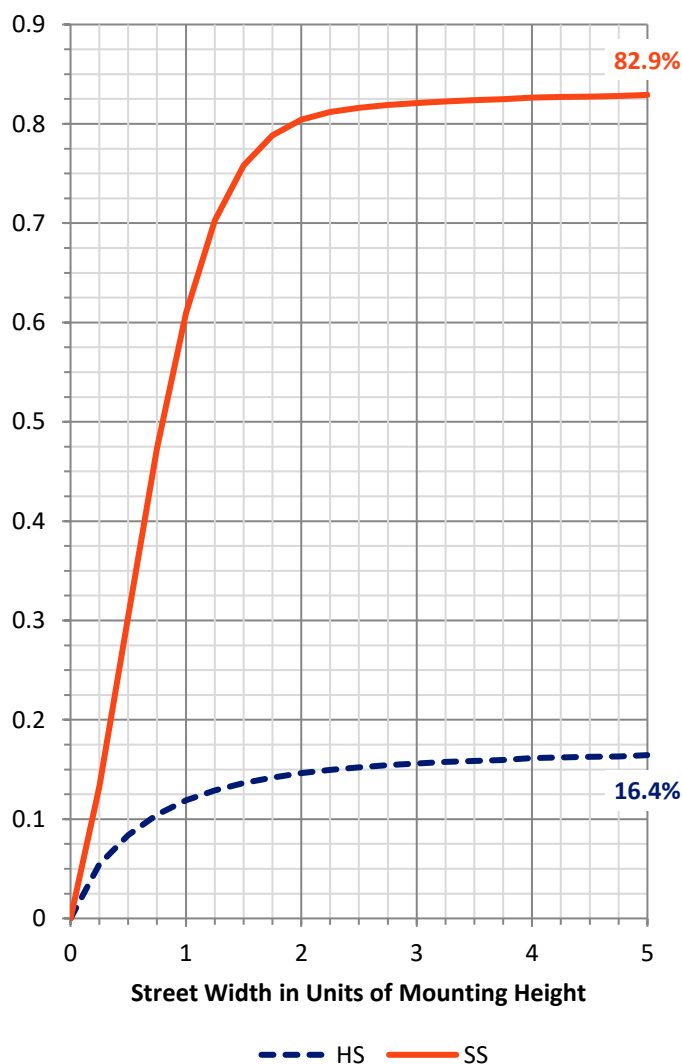
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11084.7	0.0	11084.7
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	54791.3	0.0	54791.3
	% Fixture	83.2	0.0	83.2
Total	Lumens	65876.0	0.0	65876.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	727.5	1.1
10°-20°	2872.8	4.4
20°-30°	5582.6	8.5
30°-40°	9112.0	13.8
40°-50°	12449.2	18.9
50°-60°	14500.8	22.0
60°-70°	13000.3	19.7
70°-80°	6569.8	10.0
80°-90°	1060.9	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°	65876.0	100.0
0°-180°	65876.0	100.0

Coefficient of Utilization

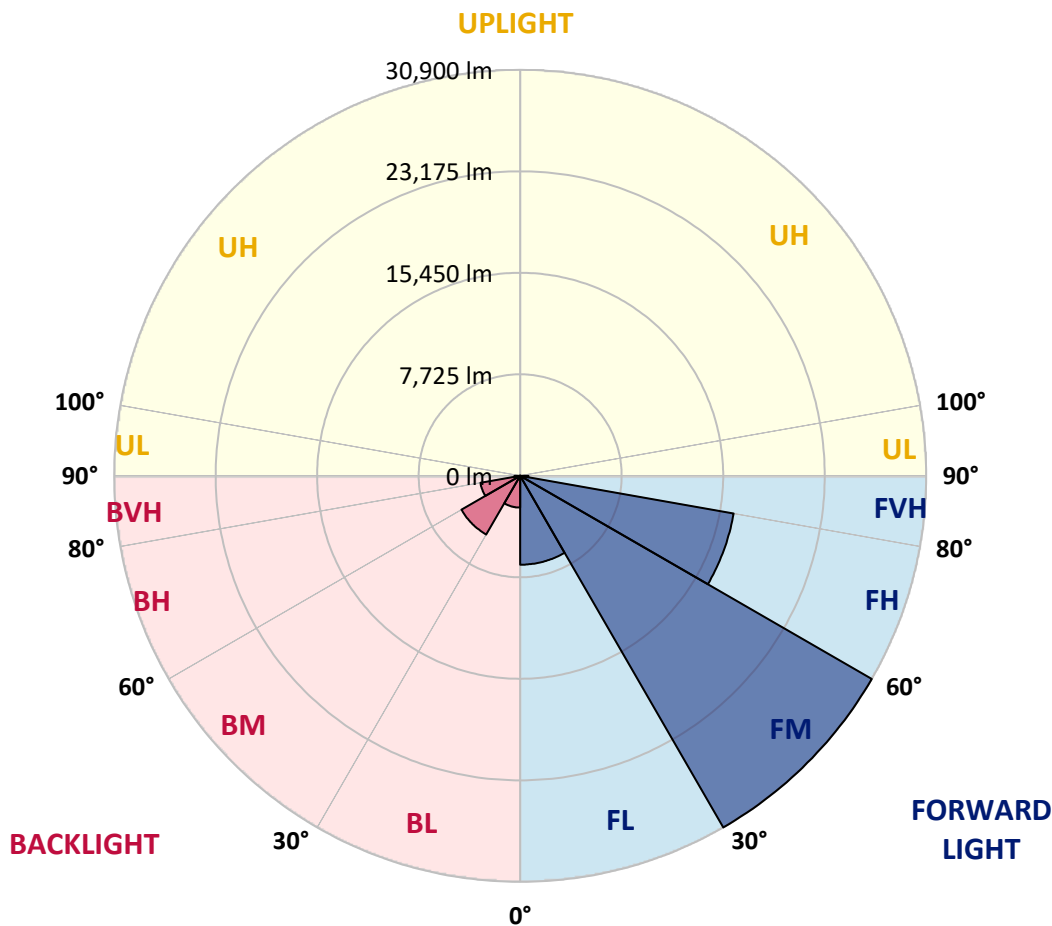


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6765.3	10.3			
FM (30°-60°)	30900.4	46.9			
FH (60°-80°)	16499.1	25.0			G5
FVH (80°-90°)	626.5	1.0			G4/750
BL (0°-30°)	2417.6	3.7	B3/2500		
BM (30°-60°)	5161.7	7.8	B4/8500		
BH (60°-80°)	3071.0	4.7	B4/5000		G4/5000
BVH (80°-90°)	434.4	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°	6016.0	6016.0	6016.0	6016.0	6016.0	6016.0	6016.0	6016.0	6016.0	6016.0	6016.0
2.5°	7986.2	7865.5	7854.3	7677.6	7637.4	7299.7	7051.4	6792.0	6496.8	6438.6	6206.1
5°	10258.4	10247.3	10093.0	9804.5	9578.6	9001.6	8431.3	7827.5	7165.5	7058.1	6534.8
7.5°	12302.5	12284.6	12166.1	11855.3	11528.7	10819.8	10005.7	9079.9	8006.4	7847.6	6979.9
10°	13854.6	13847.9	13807.6	13579.5	13302.2	12622.3	11723.3	10459.7	8983.7	8766.8	7536.7
12.5°	15053.3	15066.7	15093.6	15013.1	14881.1	14301.9	13380.5	11922.3	10025.9	9811.2	8156.2
15°	15865.1	15905.4	16044.1	16158.1	16227.4	15871.9	14979.5	13418.5	11193.3	10936.1	8842.8
17.5°	16274.4	16319.1	16558.4	16902.8	17220.4	17184.6	16475.7	14845.3	12313.7	12065.5	9580.8
20°	16627.8	16661.3	16929.7	17343.4	17904.8	18153.0	17754.9	16218.5	13541.5	13246.3	10363.6
22.5°	17652.0	17694.5	17775.1	18009.9	18506.4	18962.6	18770.3	17517.9	14666.4	14391.4	11106.1
25°	19629.0	19680.5	19506.0	19307.0	19400.9	19718.5	19754.3	18703.2	15807.0	15496.1	11904.5
27.5°	22010.8	22084.6	21787.2	21275.0	20827.8	20704.8	20662.3	19673.8	16896.1	16536.1	12693.9
30°	24343.4	24470.9	24084.0	23419.8	22599.0	22022.0	21594.9	20624.2	17969.6	17625.2	13438.6
32.5°	26622.3	26570.9	26009.5	25361.0	24399.3	23677.0	22643.7	21644.1	19177.3	18781.4	14178.9
35°	28183.3	28201.2	27680.1	26910.8	25993.9	25439.3	24048.2	22744.4	20409.6	20045.0	15019.8
37.5°	29511.8	29429.0	28838.6	28120.7	27331.3	27094.2	25692.0	23956.5	21744.7	21346.6	15914.4
40°	29954.6	29858.4	29471.5	28954.9	28322.0	28301.9	27505.7	25329.7	23254.3	22860.7	16923.0
42.5°	29686.2	29563.2	29404.4	29263.5	29069.0	29158.4	29209.9	26939.9	24913.7	24473.1	18090.4
45°	28695.5	28509.9	28621.7	28928.1	29350.8	29856.2	30748.5	28722.3	26772.2	26403.2	19461.3
47.5°	27172.5	27004.7	27353.6	28008.9	29158.4	30437.6	32204.4	30690.4	28990.7	28623.9	21413.7
50°	25030.0	25079.2	25577.9	26769.9	28507.6	30706.0	33998.0	33295.8	32215.6	31873.4	24077.3
52.5°	21514.3	21523.3	22927.8	24884.6	27353.6	30567.4	34993.2	36625.8	36619.1	36205.4	26613.4
55°	18249.2	18448.2	19559.7	22160.7	25484.0	30012.7	35688.8	38245.0	39510.8	39025.5	28977.3
57.5°	15060.0	15176.3	16229.7	18841.8	22815.9	28534.5	36402.2	40188.4	42843.1	42536.7	31915.9
60°	11432.6	11611.5	12700.6	15113.7	19403.2	25911.1	36469.3	42216.9	46826.1	46517.5	35196.7
62.5°	7420.4	7729.1	8748.9	11009.9	15274.7	22138.3	34912.7	43543.1	50601.2	50491.6	38108.6
65°	4264.8	4497.4	5206.4	6950.8	10538.0	17401.6	31211.5	43033.2	52924.8	52862.2	39197.7
66°	3484.3	3629.7	4173.2	5432.3	8695.2	15281.4	29060.0	41957.4	53155.2	53157.4	39072.5
67.5°	2786.6	2851.4	3095.2	3889.1	6416.3	12112.4	25215.6	39584.6	52868.9	52947.2	38265.1
70°	2305.7	2339.3	2415.3	2607.7	3502.2	7304.1	17898.1	33418.8	49995.1	50055.5	35114.0
72.5°	2068.7	2088.8	2117.9	2144.7	2471.2	4081.5	10931.6	26734.1	43833.8	43912.1	30312.4
75°	1874.1	1885.3	1880.8	1883.1	2073.2	2601.0	5649.2	19960.0	35442.8	35286.2	23220.7
77.5°	1646.0	1657.2	1634.8	1639.3	1833.9	1999.4	2811.2	13973.1	23918.5	22813.7	13083.0
80°	1391.1	1400.0	1391.1	1406.7	1596.8	1509.6	1634.8	7861.0	10576.0	10003.5	4651.7
82.5°	1051.1	1089.1	1116.0	1178.6	1315.0	1073.5	1093.6	3061.7	3220.4	3066.1	1426.8
85°	460.7	561.3	840.9	901.3	988.5	644.1	717.9	1247.9	1310.5	1270.3	518.8
87.5°	120.8	131.9	416.0	523.3	547.9	290.7	373.5	568.1	599.4	568.1	172.2
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°	6016.0	6016.0	6016.0	6016.0	6016.0	6016.0	6016.0	6016.0	6016.0	6016.0	6016.0
2.5°	6083.1	5973.5	5776.7	5602.2	5470.3	5380.8	5291.4	5246.6	5219.8	5193.0	5197.4
5°	6277.6	6056.2	5718.5	5479.2	5345.0	5260.1	5215.3	5197.4	5186.3	5159.4	5159.4
7.5°	6570.6	6257.5	5792.3	5546.3	5441.2	5376.3	5349.5	5340.6	5327.1	5295.8	5300.3
10°	6939.6	6501.3	5946.6	5707.3	5611.2	5539.6	5501.6	5488.2	5463.6	5427.8	5432.3
12.5°	7373.5	6803.2	6150.1	5899.7	5783.4	5687.2	5624.6	5586.6	5544.1	5497.1	5499.4
15°	7847.6	7131.9	6369.3	6071.9	5913.1	5778.9	5678.3	5613.4	5546.3	5488.2	5485.9
17.5°	8328.4	7449.5	6537.0	6165.8	5951.1	5774.4	5638.0	5537.4	5454.6	5383.1	5376.3
20°	8847.3	7735.8	6631.0	6156.9	5879.5	5669.3	5488.2	5362.9	5271.2	5199.7	5188.5
22.5°	9375.1	8004.1	6646.6	6065.2	5720.8	5463.6	5273.5	5134.8	5040.9	4967.1	4940.2
25°	9858.1	8212.1	6581.8	5888.5	5499.4	5222.0	5036.4	4895.5	4819.5	4732.3	4705.4
27.5°	10298.7	8357.5	6452.1	5662.6	5251.1	4978.3	4803.8	4683.1	4600.3	4533.2	4510.9
30°	10694.6	8435.8	6239.6	5394.2	4996.2	4747.9	4600.3	4517.6	4446.0	4361.0	4345.4
32.5°	11070.3	8435.8	5966.8	5101.3	4743.4	4544.4	4457.2	4405.7	4325.2	4242.5	4220.1
35°	11446.0	8384.3	5644.7	4794.9	4510.9	4399.0	4394.6	4334.2	4211.2	4099.4	4070.3
37.5°	11841.8	8279.2	5282.4	4508.6	4320.8	4334.2	4372.2	4238.0	4063.6	3904.8	3862.3
40°	12289.1	8133.9	4906.7	4260.4	4162.0	4305.1	4311.8	4099.4	3759.4	3614.1	3576.0
42.5°	12814.7	7988.5	4557.8	4041.2	4036.7	4217.9	4197.8	3799.7	3596.2	3522.4	3502.2
45°	13505.7	7905.7	4226.8	3833.2	3938.3	4077.0	4003.2	3634.2	3549.2	3506.7	3488.8
47.5°	14594.9	7948.2	3922.7	3667.7	3839.9	3936.1	3640.9	3567.1	3506.7	3455.3	3437.4
50°	15959.1	7923.6	3676.7	3553.7	3728.1	3788.5	3477.6	3479.9	3448.6	3390.4	3363.6
52.5°	16985.6	7731.3	3517.9	3488.8	3629.7	3526.8	3374.8	3394.9	3379.2	3294.2	3265.2
55°	17976.3	7565.8	3437.4	3464.2	3558.1	3200.3	3254.0	3303.2	3287.5	3204.8	3191.4
57.5°	19208.6	7534.5	3388.2	3470.9	3497.8	3037.1	3137.7	3202.6	3191.4	3155.6	3148.9
60°	20718.2	7543.4	3343.4	3482.1	3430.7	2916.3	3028.1	3110.9	3117.6	3110.9	3106.4
62.5°	21547.9	7299.7	3231.6	3450.8	3312.1	2811.2	2914.1	3034.8	3037.1	3050.5	3048.2
65°	20843.4	6570.6	3023.6	3341.2	3113.1	2724.0	2815.7	2947.6	2914.1	2974.4	2974.4
66°	20159.1	6150.1	2920.8	3269.6	3028.1	2690.4	2784.3	2902.9	2860.4	2943.1	2943.1
67.5°	18761.3	5441.2	2735.1	3117.6	2907.3	2643.4	2748.6	2829.1	2770.9	2893.9	2885.0
70°	16207.3	4208.9	2361.7	2773.2	2708.3	2574.1	2699.4	2681.5	2596.5	2784.3	2748.6
72.5°	13664.5	3198.1	1896.5	2321.4	2406.4	2486.9	2630.0	2493.6	2386.3	2518.2	2439.9
75°	10602.9	2404.1	1498.4	1804.8	2032.9	2350.5	2547.3	2276.7	2122.4	2108.9	2066.5
77.5°	5731.9	1650.5	1187.5	1377.6	1614.7	2180.5	2491.4	2044.1	1811.5	1757.8	1724.3
80°	2270.0	1073.5	863.3	1044.4	1129.4	1934.5	2357.2	1773.5	1493.9	1440.3	1388.8
82.5°	937.1	635.1	556.9	700.0	735.8	1654.9	2115.7	1453.7	1154.0	1596.8	1695.2
85°	402.6	348.9	331.0	362.3	416.0	1160.7	1684.0	1109.3	1245.7	1111.5	883.4
87.5°	120.8	147.6	140.9	138.7	152.1	277.3	896.8	617.3	914.7	346.6	259.4
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)