

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: P320973

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320973
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-SA9C-740-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 64872 lumens
Efficiency: N/A
Efficacy: 129.5 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

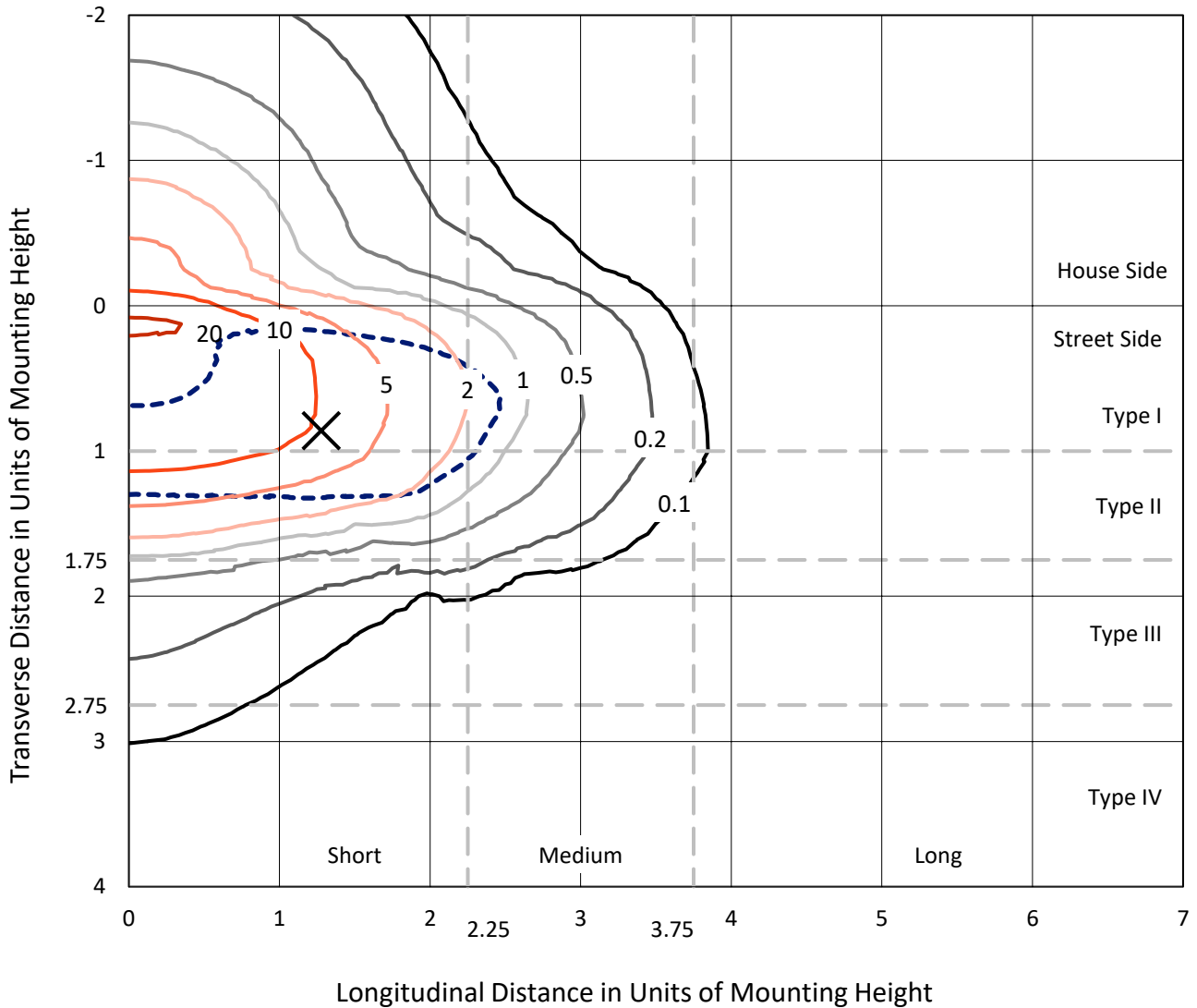
Input Watts (W): 501
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

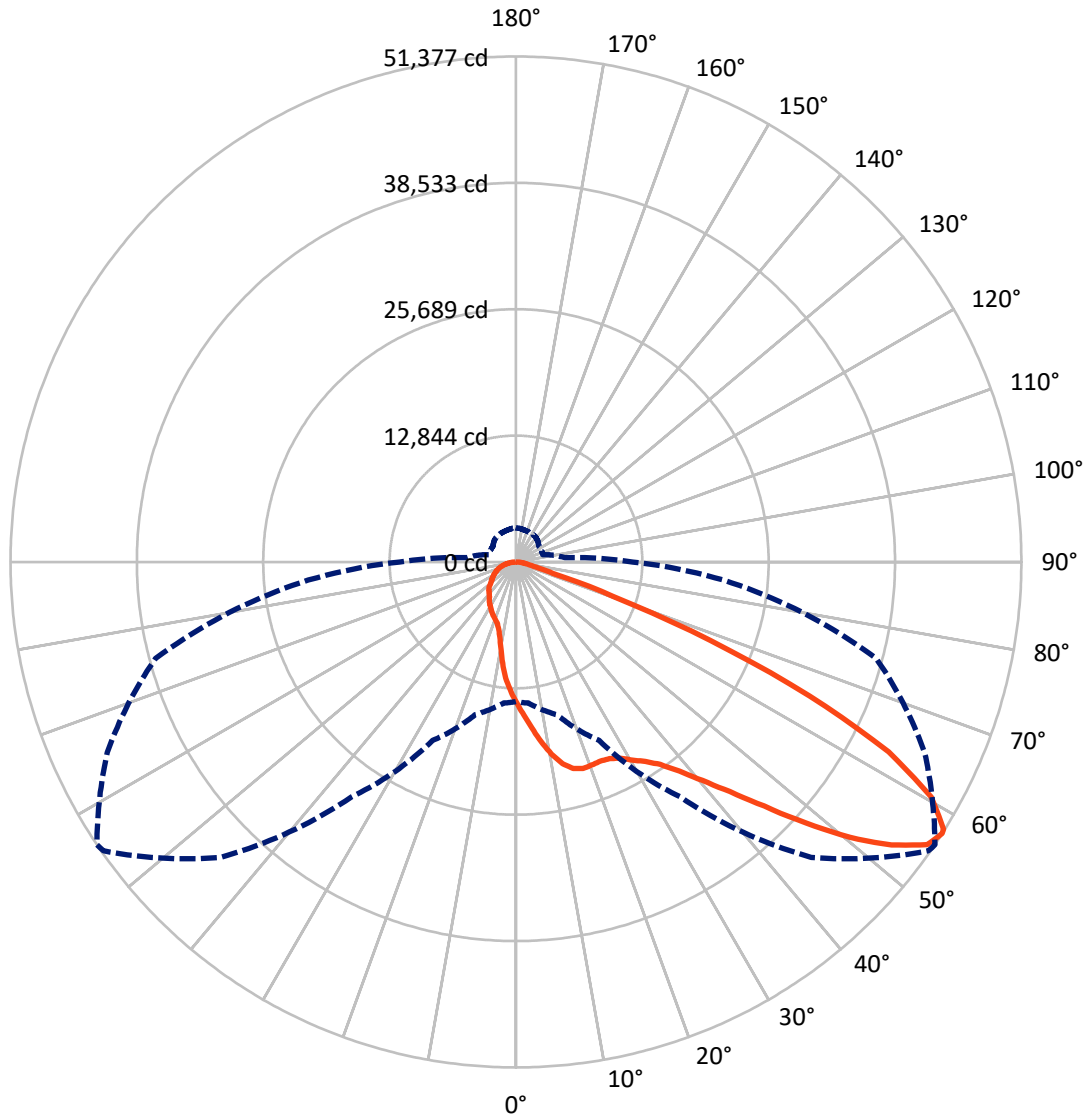
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 22.1 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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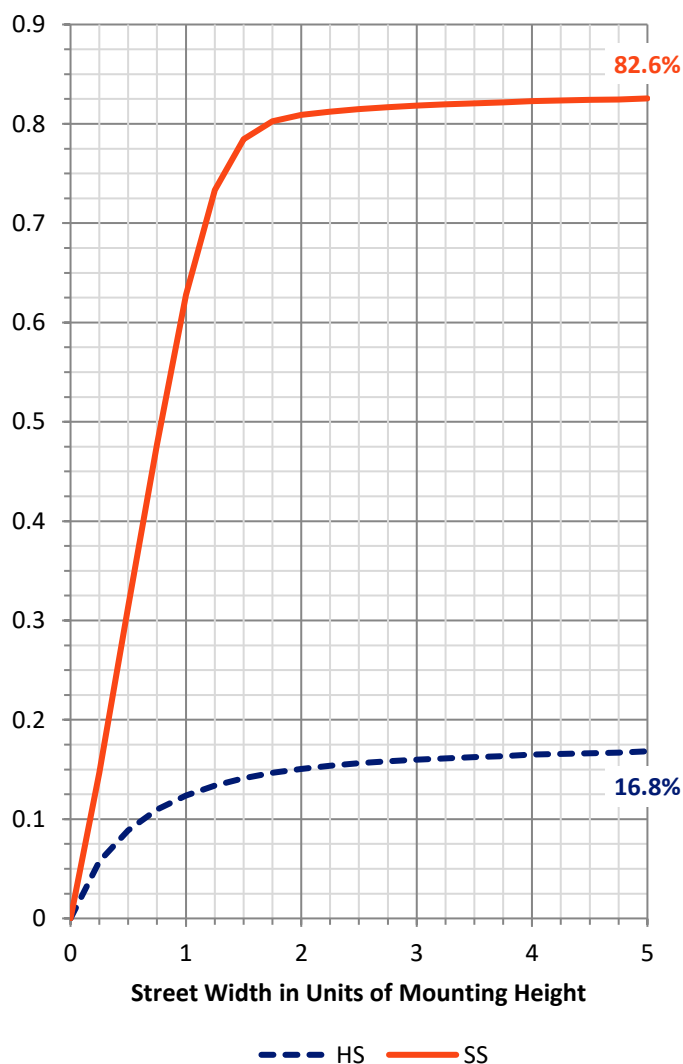
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11182.5	0.0	11182.5
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	53689.5	0.0	53689.5
	% Fixture	82.8	0.0	82.8
Total	Lumens	64872.0	0.0	64872.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1374.5	2.1
10°-20°	3886.0	6.0
20°-30°	6329.5	9.8
30°-40°	9461.9	14.6
40°-50°	14351.7	22.1
50°-60°	16085.7	24.8
60°-70°	9500.8	14.6
70°-80°	3112.8	4.8
80°-90°	769.1	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°	64872.0	100.0
0°-180°	64872.0	100.0

Coefficient of Utilization



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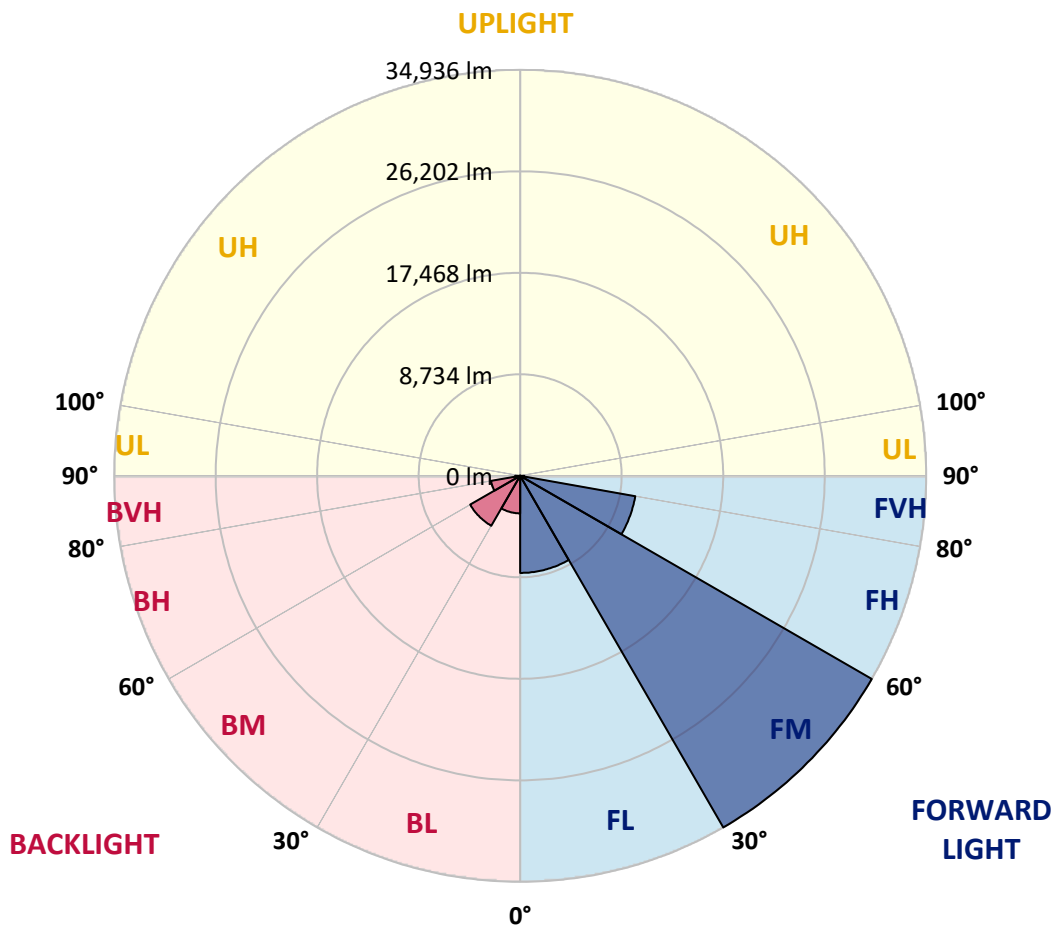
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	8356.5	12.9			
FM (30°-60°)	34935.7	53.9			
FH (60°-80°)	10058.6	15.5			G4/12000
FVH (80°-90°)	338.6	0.5			G3/500
BL (0°-30°)	3233.5	5.0	B4/5000		
BM (30°-60°)	4963.6	7.7	B3/5000		
BH (60°-80°)	2555.1	3.9	B4/5000		G4/5000
BVH (80°-90°)	430.4	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-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	14388.7	14388.7	14388.7	14388.7	14388.7	14388.7	14388.7	14388.7	14388.7	14388.7	14388.7
2.5°	16522.2	16673.8	16606.9	16375.1	16196.7	15944.8	15663.9	15579.2	15282.7	14950.5	14551.4
5°	19137.3	19061.5	18952.3	18591.1	18209.9	17766.2	17061.7	16950.3	16290.4	15539.0	14745.4
7.5°	20626.6	20619.9	20555.2	20343.4	19995.7	19416.0	18566.6	18435.1	17438.5	16230.2	14999.5
10°	20410.3	20394.7	20501.7	20722.4	20827.2	20706.8	19991.2	19859.7	18635.7	16994.9	15293.8
12.5°	19181.9	19190.8	19362.5	19826.2	20457.1	21215.1	21099.2	21034.6	19877.5	17859.9	15650.5
15°	18225.5	18245.6	18381.6	18785.1	19529.7	20905.3	21772.5	21794.8	21079.2	18814.1	16067.4
17.5°	17806.4	17848.7	17911.2	18194.3	18876.5	20287.7	21933.0	22053.4	22131.4	19803.9	16468.7
20°	17940.1	17980.3	17998.1	18178.7	18738.3	19913.2	21821.6	22037.8	22938.5	20735.8	16870.0
22.5°	18539.8	18564.4	18575.5	18622.3	19057.1	20020.2	21748.0	21975.4	23522.6	21571.9	17173.2
25°	19534.2	19516.3	19445.0	19384.8	19676.8	20443.8	21917.4	22133.7	23997.5	22329.9	17371.6
27.5°	20724.7	20702.4	20564.2	20399.2	20566.4	21103.7	22405.7	22577.3	24423.3	23038.8	17472.0
30°	22153.7	22095.8	21834.9	21638.7	21703.4	22093.5	23210.5	23366.5	25081.0	23843.6	17570.0
32.5°	23805.7	23743.3	23366.5	23041.0	23041.0	23366.5	24039.8	24169.1	25638.3	24753.2	17728.3
35°	25874.6	25796.6	25306.1	24759.9	24606.1	24771.1	25170.1	25261.5	26641.6	25899.2	18015.9
37.5°	28313.6	28208.8	27573.5	26842.2	26505.6	26496.6	26784.2	26971.5	28244.5	27404.0	18504.2
40°	30759.3	30685.7	30130.6	29555.4	28895.5	28683.7	29127.4	29185.3	30340.2	29272.3	19128.4
42.5°	32649.8	32636.5	32533.9	32609.7	31934.2	31506.1	31853.9	31900.8	32899.5	31294.4	19792.8
45°	33648.6	33670.9	34168.1	35269.4	35519.1	35207.0	35378.6	35392.0	35824.5	33334.3	20401.4
47.5°	32848.3	32964.2	34221.6	36685.1	38729.5	39766.1	39480.8	39645.8	38660.4	35086.6	20878.5
50°	29729.3	29872.0	32012.2	36054.2	40227.6	44178.2	44028.8	43990.9	40947.7	36370.7	21137.1
52.5°	25865.7	25977.2	27742.9	32774.7	39128.5	46617.1	47988.2	47792.0	42981.0	37331.6	21186.2
55°	19982.3	20156.2	21848.3	26229.1	34683.1	45685.2	50899.9	50723.7	44833.6	37835.5	21128.2
57°	14205.9	14388.7	16069.7	20018.0	29176.4	42459.3	51189.7	51377.0	45834.6	37920.2	21192.9
57.5°	12676.5	12863.7	14529.1	18363.7	27459.8	41293.3	50940.0	51252.1	46015.2	37906.8	21228.5
60°	6382.8	6454.2	7515.4	10250.9	17358.3	33383.3	47682.8	48487.6	46178.0	37251.4	21382.4
62.5°	3968.4	3917.1	3883.6	4721.9	8445.0	22138.1	40961.1	42510.6	43063.5	35664.0	21010.0
65°	3489.0	3393.2	3025.3	2958.4	3729.8	10752.5	30846.2	32774.7	36408.6	33162.6	20122.7
67.5°	3277.2	3183.6	2768.9	2519.2	2521.5	4262.6	19150.7	21322.2	28362.7	28933.4	18029.3
70°	3058.8	2974.0	2586.1	2291.8	2146.9	2361.0	8810.7	10458.2	18488.6	22742.3	15068.6
72.5°	2777.9	2719.9	2352.0	2048.8	1895.0	1767.9	3373.1	3984.0	10703.4	15273.7	10464.9
75°	2483.6	2430.1	2115.7	1825.9	1638.6	1391.2	1899.5	2046.6	5437.6	7814.1	5152.2
77.5°	2160.3	2129.1	1881.6	1614.1	1464.7	1152.6	1344.3	1415.7	2332.0	3350.8	2583.9
80°	1718.9	1779.1	1645.3	1438.0	1299.8	923.0	952.0	998.8	1357.7	1636.4	1467.0
82.5°	1119.2	1224.0	1288.6	1168.2	1070.1	726.8	684.4	704.5	885.1	998.8	637.6
85°	465.9	523.9	847.2	764.7	711.2	530.6	459.3	468.2	548.4	568.5	260.8
87.5°	207.3	220.7	372.3	350.0	301.0	182.8	196.2	214.0	292.1	276.4	100.3
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°	14388.7	14388.7	14388.7	14388.7	14388.7	14388.7	14388.7	14388.7	14388.7	14388.7	14388.7
2.5°	14402.0	14214.8	13893.7	13539.3	13249.4	13017.6	12783.5	12623.0	12435.7	12335.4	12284.1
5°	14413.2	14045.3	13369.8	12676.5	12056.7	11490.4	10950.9	10536.2	10148.3	9938.7	9880.8
7.5°	14460.0	13907.1	12814.7	11673.2	10571.9	9566.4	8790.6	8304.6	7954.6	7798.5	7753.9
10°	14497.9	13744.4	12128.0	10438.1	8940.0	7921.1	7319.2	7047.2	6926.8	6906.7	6886.7
12.5°	14587.1	13577.2	11405.7	9149.5	7671.4	6966.9	6757.4	6739.5	6773.0	6822.0	6822.0
15°	14727.5	13412.2	10580.8	8043.7	6864.4	6616.9	6659.3	6757.4	6848.8	6924.6	6935.7
17.5°	14830.1	13209.3	9693.5	7158.7	6434.1	6501.0	6652.6	6790.8	6884.4	6958.0	6964.7
20°	14903.7	12895.0	8746.0	6483.1	6186.6	6394.0	6583.5	6706.1	6770.7	6844.3	6855.5
22.5°	14865.8	12473.6	7905.5	5999.4	5986.0	6237.9	6418.5	6565.6	6516.6	6445.2	6492.1
25°	14683.0	11893.9	7040.5	5638.2	5774.2	6028.3	6251.3	6153.2	5988.2	5957.0	5974.8
27.5°	14357.5	11153.8	6240.1	5303.8	5529.0	5834.4	5821.0	5722.9	5665.0	5624.8	5649.3
30°	14007.4	10351.2	5540.1	5011.7	5257.0	5508.9	5457.6	5455.4	5397.4	5332.8	5364.0
32.5°	13661.9	9544.1	4985.0	4771.0	5051.9	5085.3	5196.8	5230.2	5116.5	4980.5	4971.6
35°	13360.9	8781.7	4563.6	4552.5	4804.4	4808.9	4971.6	4924.8	4641.6	4501.2	4501.2
37.5°	13135.7	8021.4	4242.6	4356.3	4478.9	4594.8	4677.3	4483.4	4436.5	4358.5	4356.3
40°	13037.6	7352.6	4041.9	4206.9	4249.3	4396.4	4184.6	4260.4	4282.7	4242.6	4242.6
42.5°	12935.1	6770.7	3868.0	4093.2	4086.5	4066.5	3959.4	4057.5	4146.7	4148.9	4142.3
45°	12832.5	6269.1	3714.2	3850.2	3943.8	3727.6	3747.7	3852.4	3977.3	4021.9	4021.9
47.5°	12718.8	5872.3	3573.8	3593.8	3738.7	3593.8	3578.2	3658.5	3805.6	3877.0	3892.6
50°	12469.1	5515.6	3413.2	3368.7	3408.8	3457.8	3471.2	3509.1	3671.9	3785.6	3812.3
52.5°	12123.6	5196.8	3208.1	3161.3	3161.3	3346.4	3408.8	3419.9	3558.2	3694.1	3720.9
55°	11836.0	4993.9	2996.3	2987.4	2978.5	3228.2	3335.2	3353.0	3448.9	3555.9	3569.3
57°	11856.0	4978.3	2833.6	2842.5	2840.3	3107.8	3266.1	3304.0	3353.0	3444.5	3460.1
57.5°	11867.2	4989.4	2797.9	2802.4	2800.1	3074.4	3246.0	3288.4	3326.3	3422.2	3437.8
60°	12034.4	5018.4	2653.0	2604.0	2615.1	2896.0	3132.3	3185.8	3210.4	3337.4	3357.5
62.5°	11786.9	4889.1	2537.1	2418.9	2418.9	2708.7	2974.0	3058.8	3096.7	3268.3	3301.8
65°	11069.1	4525.7	2401.1	2209.4	2231.6	2521.5	2784.5	2922.8	2980.7	3194.8	3230.4
67.5°	9961.0	4104.4	2256.2	2022.1	2044.4	2325.3	2588.4	2737.7	2829.1	3114.5	3143.5
70°	8518.6	3589.4	2060.0	1823.7	1850.4	2111.3	2356.5	2525.9	2661.9	3038.7	3047.6
72.5°	6280.3	2942.8	1785.8	1605.2	1634.2	1861.6	2122.4	2318.6	2501.4	2849.2	2844.7
75°	3734.3	2300.8	1482.6	1384.5	1404.5	1616.3	1910.6	2149.2	2423.4	2775.6	2818.0
77.5°	2265.1	1732.3	1208.3	1159.3	1183.8	1400.1	1759.0	2013.2	2389.9	2617.3	2604.0
80°	1368.9	1237.3	965.3	934.1	958.7	1197.2	1627.5	1910.6	2089.0	2236.1	2236.1
82.5°	715.6	755.8	709.0	684.4	717.9	972.0	1480.3	1667.6	1846.0	1585.1	1480.3
85°	292.1	394.6	430.3	428.0	448.1	673.3	1277.5	1426.8	1190.5	1130.3	1157.1
87.5°	98.1	167.2	209.6	180.6	189.5	423.6	885.1	688.9	818.2	570.7	541.7
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)