

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: P480105

Luminaire Tested: **IFLD-S-SA2E-740-U-SL2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480105
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2E-740-U-SL2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

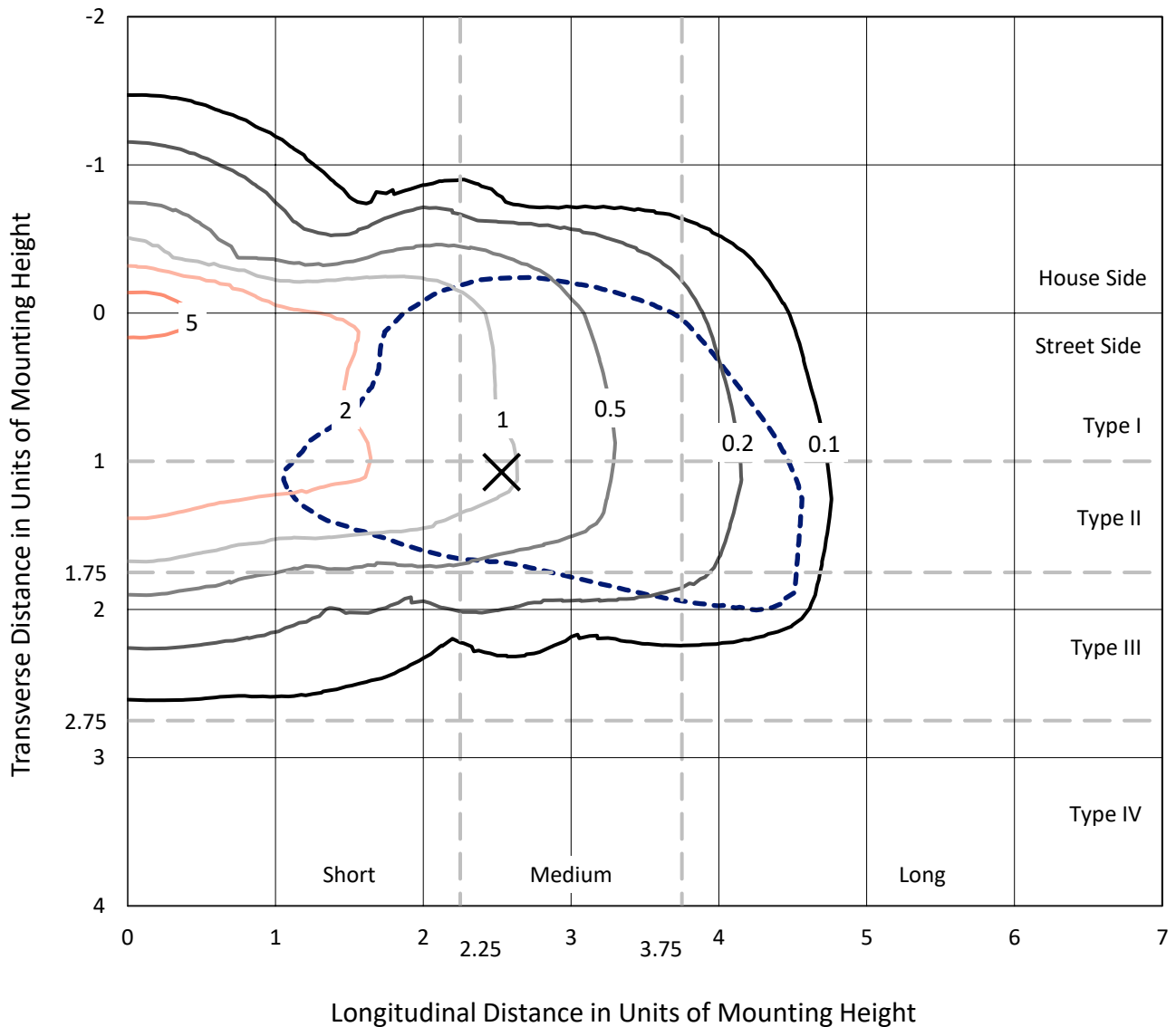
Lumens per Lamp: N/A
Luminaire Lumens: 18046.1 lumens
Efficiency: N/A
Efficacy: 115.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 156.2
Input Voltage (V): 120
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

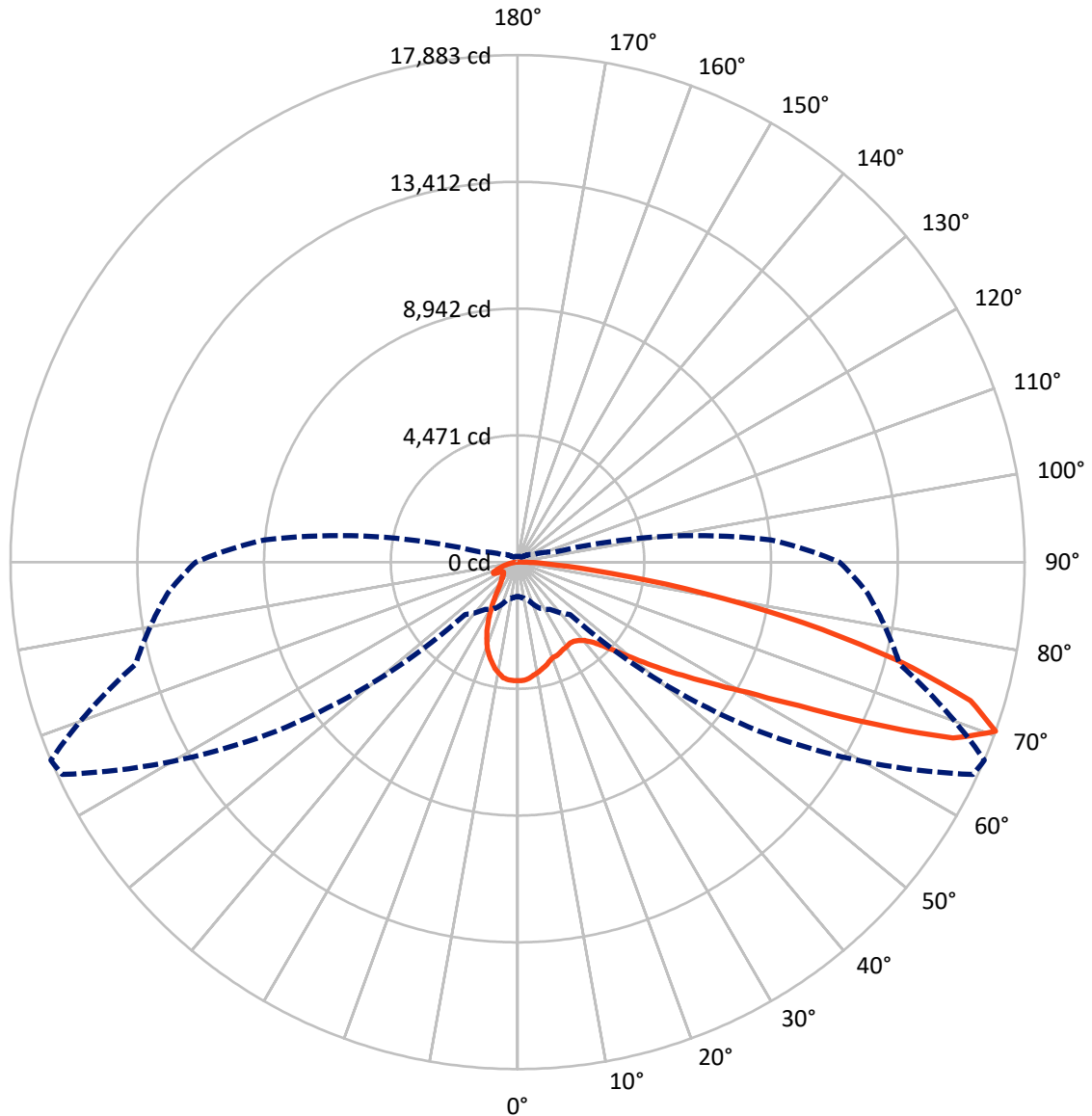
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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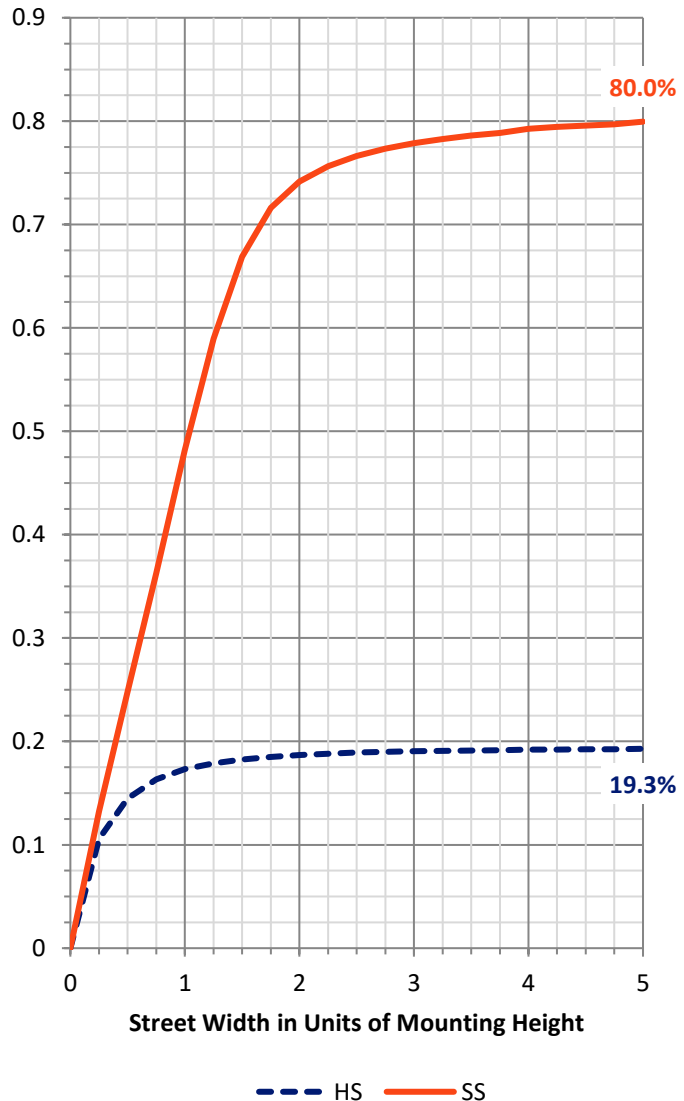
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3514.6	0.0	3514.6
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	14531.5	0.0	14531.5
	% Fixture	80.5	0.0	80.5
Total	Lumens	18046.1	0.0	18046.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	364.5	2.0
10°-20°	873.0	4.8
20°-30°	1178.9	6.5
30°-40°	1577.5	8.7
40°-50°	2319.6	12.9
50°-60°	3615.7	20.0
60°-70°	4454.0	24.7
70°-80°	3147.1	17.4
80°-90°	515.8	2.9
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°	18046.1	100.0
0°-180°	18046.1	100.0

Coefficient of Utilization



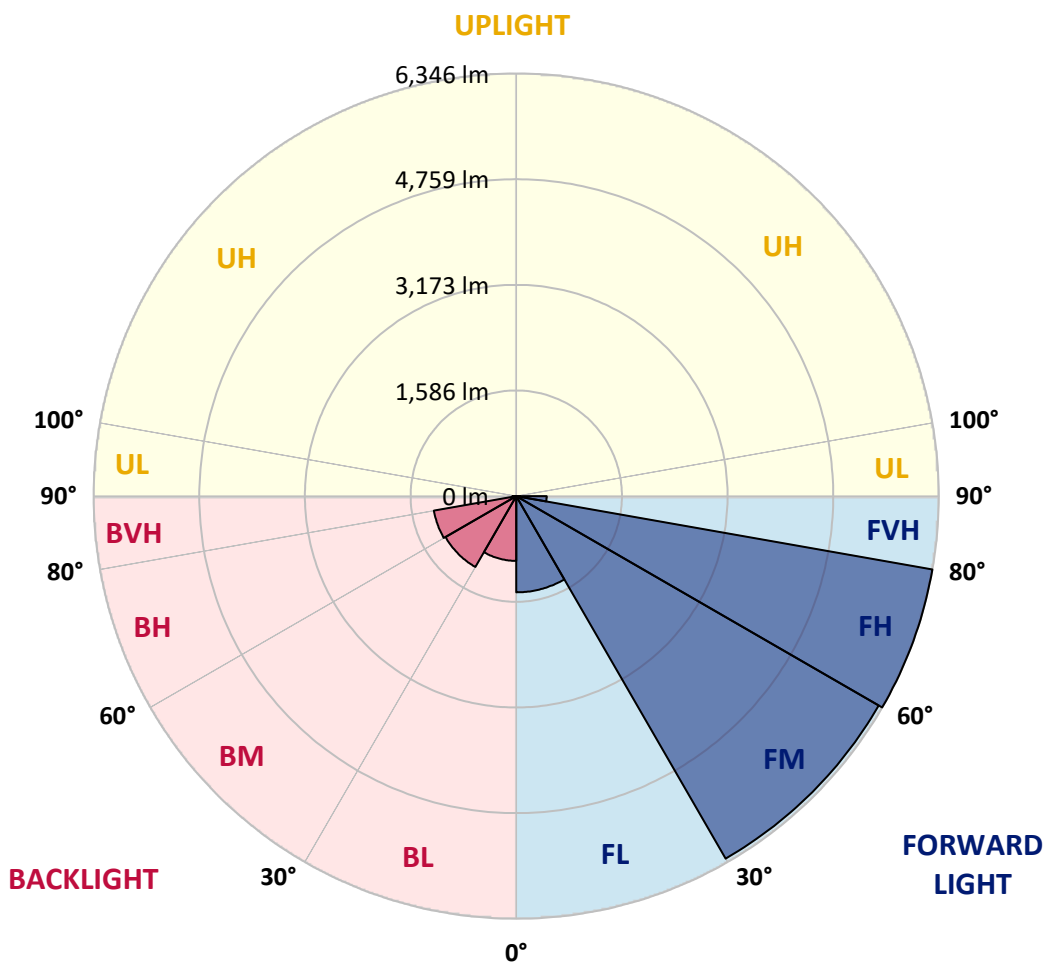
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1444.5	8.0			
FM (30°-60°)	6285.1	34.8			
FH (60°-80°)	6345.6	35.2			G3/7500
FVH (80°-90°)	456.3	2.5			G3/500
BL (0°-30°)	971.9	5.4	B2/1000		
BM (30°-60°)	1227.7	6.8	B2/2500		
BH (60°-80°)	1255.5	7.0	B3/2500		G3/2500
BVH (80°-90°)	59.5	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	4177.6	4177.6	4177.6	4177.6	4177.6	4177.6	4177.6	4177.6	4177.6	4177.6	4177.6
2.5°	3889.9	3933.9	3949.9	3973.8	4035.8	4081.7	4109.7	4141.7	4179.6	4211.6	4231.6
5°	3618.2	3642.2	3680.1	3706.1	3784.0	3907.9	3991.8	4127.7	4123.7	4173.6	4249.5
7.5°	3354.5	3378.5	3396.4	3448.4	3560.3	3672.1	3826.0	4045.8	4029.8	4145.7	4263.5
10°	3190.7	3172.7	3178.7	3266.6	3354.5	3480.3	3674.1	3897.9	3955.9	4135.7	4303.5
12.5°	3036.8	3016.8	3064.8	3120.7	3228.6	3342.5	3574.3	3776.0	3863.9	4099.7	4321.5
15°	2940.9	2926.9	2986.9	3010.8	3138.7	3274.6	3438.4	3684.1	3780.0	4055.7	4293.5
17.5°	2887.0	2899.0	2920.9	2972.9	3054.8	3170.7	3350.5	3622.2	3664.2	4001.8	4287.5
20°	2897.0	2910.9	2912.9	2934.9	2990.9	3080.8	3264.6	3556.3	3584.2	3991.8	4303.5
22.5°	2976.9	2956.9	2964.9	2950.9	2966.9	3036.8	3198.6	3468.4	3576.2	3907.9	4269.5
25°	3096.8	3068.8	3064.8	3016.8	2986.9	3006.8	3186.7	3446.4	3516.3	3881.9	4267.5
27.5°	3308.5	3266.6	3266.6	3194.6	3072.8	3040.8	3152.7	3410.4	3472.4	3858.0	4221.6
30°	3512.3	3512.3	3514.3	3412.4	3276.6	3118.7	3166.7	3396.4	3436.4	3786.0	4159.6
32.5°	3760.1	3754.1	3744.1	3694.1	3484.3	3248.6	3234.6	3378.5	3398.4	3762.1	4141.7
35°	4001.8	3985.8	4063.7	4019.8	3806.0	3502.3	3304.5	3386.4	3430.4	3726.1	4085.7
37.5°	4183.6	4193.6	4355.4	4383.4	4199.6	3790.0	3502.3	3466.4	3508.3	3778.0	4085.7
40°	4419.4	4459.3	4611.2	4705.1	4593.2	4169.6	3816.0	3600.2	3630.2	3893.9	4173.6
42.5°	4729.0	4763.0	4956.8	5078.7	5046.7	4653.1	4125.7	3879.9	3856.0	4087.7	4305.5
45°	5138.6	5144.6	5340.4	5508.2	5574.2	5158.6	4617.2	4233.6	4213.6	4421.4	4547.2
47.5°	5626.1	5620.1	5742.0	5921.8	6099.6	5762.0	5182.6	4771.0	4699.1	4898.9	4948.8
50°	6097.6	6071.6	6099.6	6329.4	6671.0	6517.2	5869.8	5428.3	5356.4	5466.3	5552.2
52.5°	6357.3	6389.3	6313.4	6617.1	7278.4	7410.2	6780.9	6213.5	6151.5	6205.5	6355.3
55°	6175.5	6241.5	6191.5	6479.2	7544.1	8499.1	7959.7	7122.5	7042.6	7022.6	7268.4
57.5°	5402.3	5522.2	5532.2	5987.7	7452.2	9342.2	9617.9	8195.4	8075.5	7871.7	8125.5
60°	4147.6	4267.5	4359.4	4898.9	6665.0	9845.7	11539.9	9721.8	9326.2	8798.8	8950.6
62.5°	2907.0	2988.9	3080.8	3412.4	5138.6	9550.0	13202.2	11871.5	11142.3	9775.7	9965.5
65°	2117.8	2181.7	2275.6	2471.4	3156.7	7901.7	13973.3	14424.9	13733.6	11018.4	10994.5
67.5°	1594.3	1634.3	1758.2	2071.8	2187.7	4880.9	13174.2	17122.0	16562.6	12399.0	11821.6
70°	1206.7	1240.7	1356.6	1786.1	2043.9	2617.3	10393.1	17723.4	17883.2	13947.4	12377.0
72.5°	831.1	869.1	999.0	1488.4	1946.0	2075.8	6523.2	16101.1	16706.5	14584.7	11781.6
75°	509.5	535.4	611.4	1128.8	1932.0	2029.9	3590.2	13194.2	13835.5	13475.9	10307.2
77.5°	359.6	357.6	371.6	661.3	1674.2	2041.9	2213.7	9667.9	10291.2	9931.6	6994.7
80°	261.7	263.7	277.7	395.6	1136.8	2075.8	1744.2	6475.2	6661.0	5178.6	2759.1
82.5°	157.8	165.8	199.8	267.7	683.3	1874.0	1612.3	3598.2	3366.5	1662.3	759.2
85°	83.9	83.9	117.9	169.8	363.6	1398.5	1552.4	1712.2	1434.5	515.5	281.7
87.5°	20.0	20.0	34.0	67.9	145.8	669.3	1058.9	681.3	545.4	173.8	115.9
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°	4177.6	4177.6	4177.6	4177.6	4177.6	4177.6	4177.6	4177.6	4177.6	4177.6	4177.6
2.5°	4223.6	4199.6	4229.6	4169.6	4121.7	4123.7	4049.8	4045.8	4035.8	3983.8	4001.8
5°	4271.5	4251.5	4217.6	4151.6	4045.8	3939.9	3875.9	3794.0	3760.1	3742.1	3750.1
7.5°	4317.5	4281.5	4183.6	4091.7	3927.9	3728.1	3612.2	3502.3	3362.5	3346.5	3318.5
10°	4329.5	4253.5	4127.7	3931.9	3714.1	3492.3	3228.6	3024.8	2916.9	2833.0	2801.1
12.5°	4311.5	4279.5	4037.8	3786.0	3456.4	3108.7	2801.1	2513.4	2313.6	2209.7	2181.7
15°	4309.5	4253.5	3937.9	3564.3	3142.7	2689.2	2251.6	1906.0	1696.2	1610.3	1610.3
17.5°	4311.5	4177.6	3820.0	3340.5	2773.1	2159.7	1678.2	1394.5	1278.7	1266.7	1276.7
20°	4271.5	4121.7	3696.1	3076.8	2309.6	1622.3	1218.7	1102.8	1102.8	1118.8	1124.8
22.5°	4235.6	4037.8	3500.3	2751.1	1838.1	1174.8	991.0	957.0	995.0	1022.9	1034.9
25°	4185.6	3967.8	3300.5	2413.5	1398.5	947.0	861.1	869.1	905.1	955.0	951.0
27.5°	4113.7	3846.0	3062.8	2021.9	1040.9	817.1	795.2	799.2	837.1	859.1	855.1
30°	4031.8	3722.1	2843.0	1632.3	825.1	749.2	747.2	757.2	763.2	775.2	773.2
32.5°	3927.9	3558.3	2609.3	1268.7	743.2	711.3	703.3	697.3	703.3	701.3	695.3
35°	3854.0	3470.4	2371.5	967.0	697.3	677.3	671.3	661.3	653.3	641.3	639.3
37.5°	3834.0	3382.5	2121.8	789.2	661.3	651.3	631.3	613.4	603.4	597.4	593.4
40°	3822.0	3324.5	1878.0	693.3	631.3	621.3	597.4	573.4	563.4	557.4	559.4
42.5°	3863.9	3292.5	1630.3	645.3	605.4	587.4	561.4	533.4	531.4	527.4	533.4
45°	4011.8	3332.5	1400.5	611.4	579.4	549.4	515.5	501.5	499.5	495.5	499.5
47.5°	4347.4	3432.4	1204.7	589.4	551.4	525.4	489.5	469.5	467.5	465.5	465.5
50°	4811.0	3740.1	1040.9	563.4	533.4	497.5	463.5	441.5	437.5	429.5	429.5
52.5°	5538.2	4257.5	943.0	549.4	501.5	471.5	435.5	411.6	401.6	393.6	393.6
55°	6357.3	4898.9	925.0	525.4	467.5	439.5	407.6	383.6	373.6	363.6	359.6
57.5°	7290.4	5748.0	1052.9	509.5	443.5	407.6	371.6	349.6	341.6	331.7	327.7
60°	8159.4	6595.1	1450.5	485.5	421.6	377.6	341.6	319.7	309.7	299.7	299.7
62.5°	9164.4	7644.0	2123.8	485.5	401.6	345.6	309.7	293.7	287.7	277.7	275.7
65°	10353.1	8728.8	2615.3	515.5	395.6	317.7	279.7	263.7	257.7	251.7	249.7
67.5°	11258.2	9352.2	2249.6	595.4	421.6	293.7	249.7	239.7	235.8	229.8	225.8
70°	11354.1	8972.6	1356.6	643.3	447.5	269.7	223.8	213.8	213.8	207.8	203.8
72.5°	10493.0	7961.6	913.0	573.4	405.6	241.7	197.8	189.8	185.8	181.8	179.8
75°	8780.8	6752.9	721.2	457.5	311.7	199.8	171.8	163.8	157.8	155.8	151.8
77.5°	5897.8	4389.4	533.4	357.6	229.8	161.8	143.8	135.9	129.9	127.9	121.9
80°	2265.6	1672.2	343.6	259.7	161.8	127.9	113.9	105.9	101.9	95.9	91.9
82.5°	667.3	541.4	191.8	159.8	103.9	87.9	81.9	75.9	69.9	63.9	61.9
85°	275.7	247.7	117.9	83.9	63.9	51.9	47.9	42.0	36.0	32.0	28.0
87.5°	127.9	105.9	53.9	32.0	22.0	12.0	6.0	2.0	0.0	0.0	0.0
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)