

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: P478646

Luminaire Tested: **IFLD-M-SA4C-760-U-T4W**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478646
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-760-U-T4W
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (64) 5700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

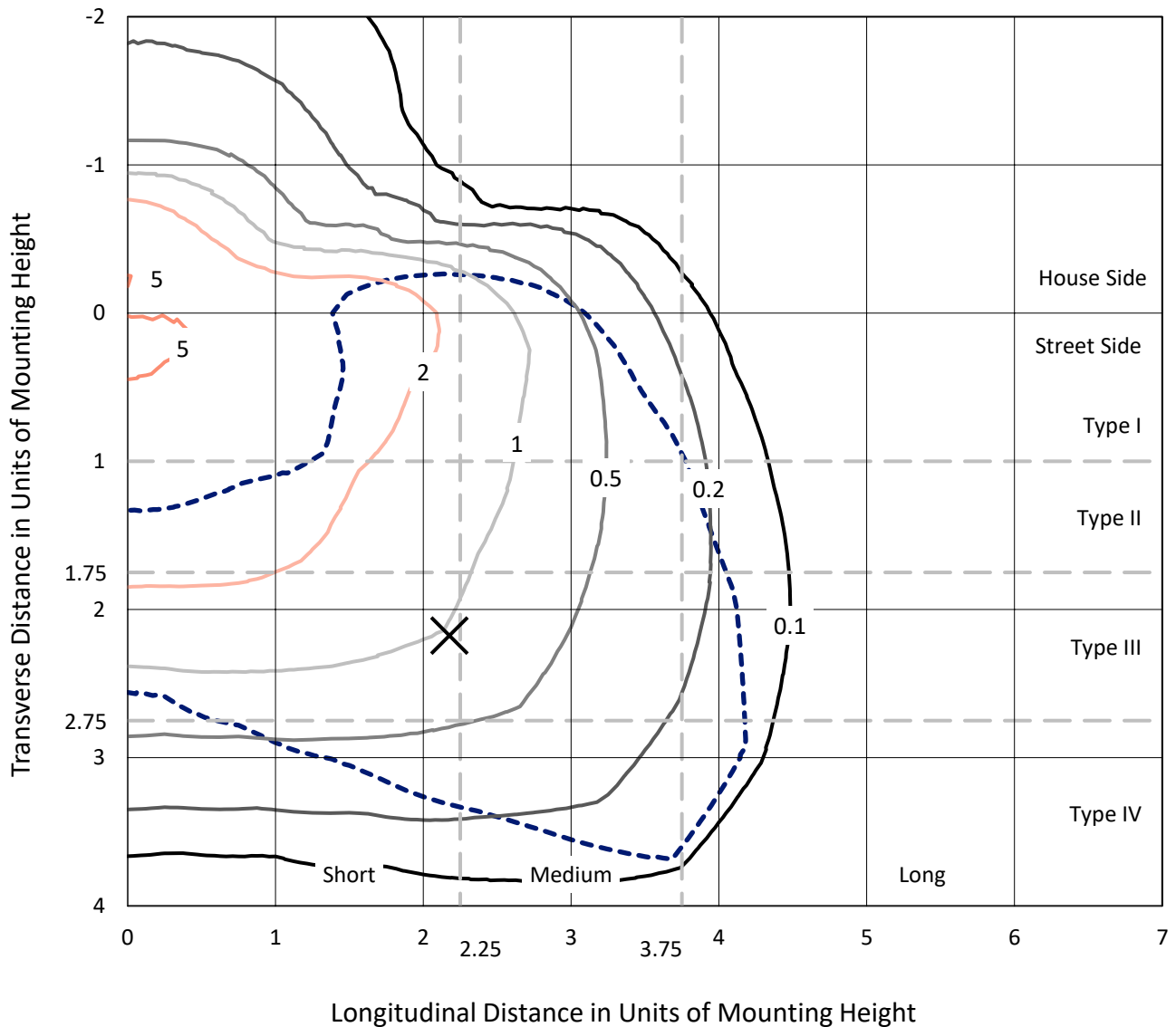
Lumens per Lamp: N/A
Luminaire Lumens: 29396.3 lumens
Efficiency: N/A
Efficacy: 134.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 218.1
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

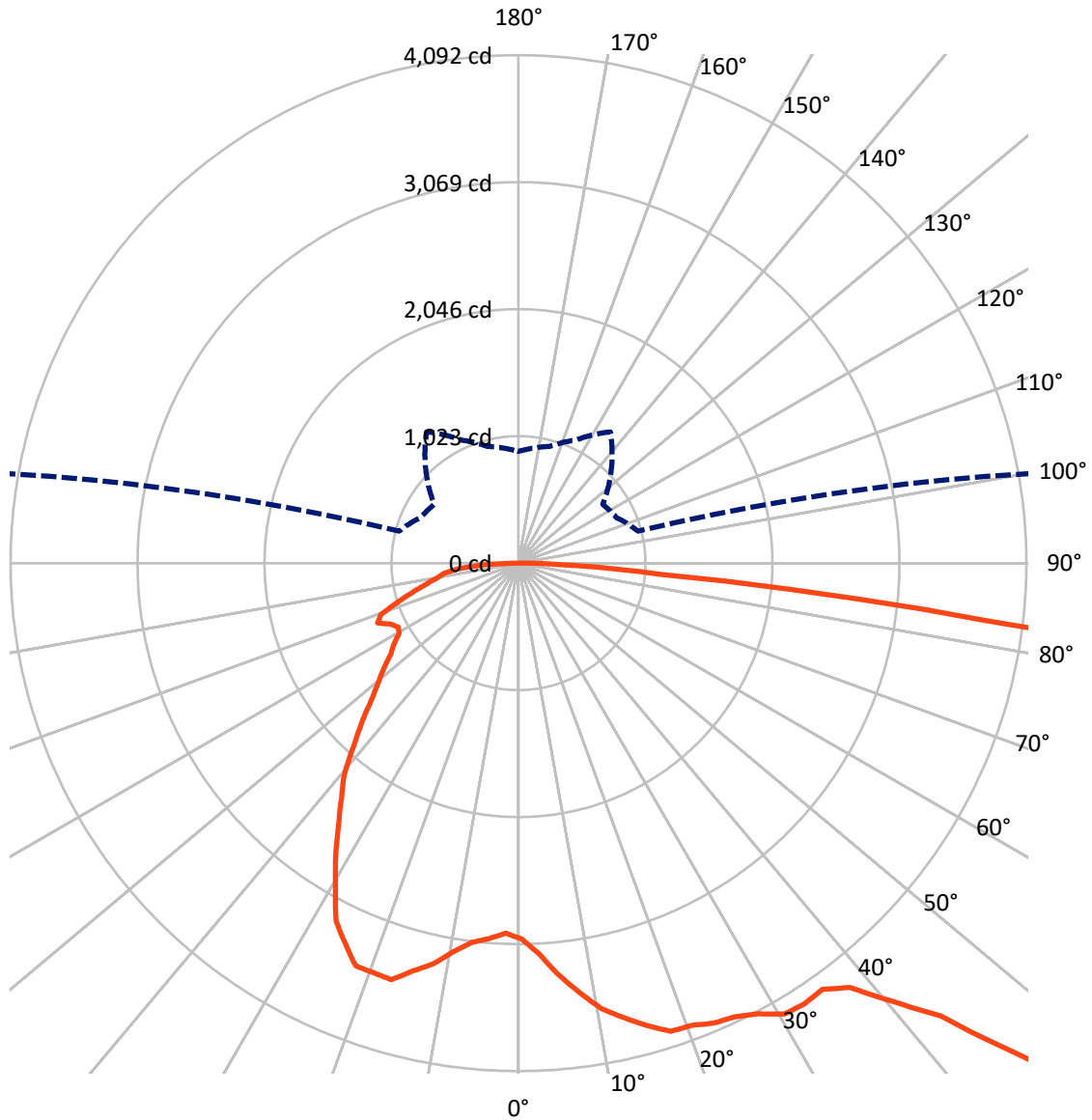
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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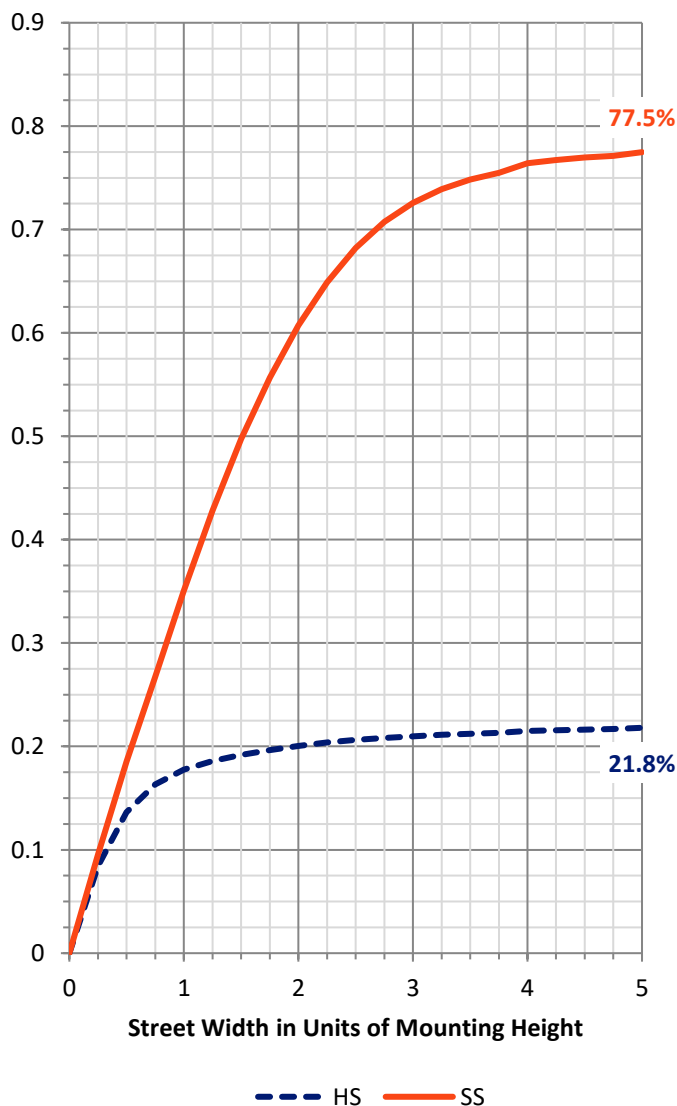
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6543.8	0.0	6543.8
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	22852.5	0.0	22852.5
	% Fixture	77.7	0.0	77.7
Total	Lumens	29396.3	0.0	29396.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	309.8	1.1
10°-20°	1030.6	3.5
20°-30°	1740.5	5.9
30°-40°	2408.5	8.2
40°-50°	3445.2	11.7
50°-60°	5556.7	18.9
60°-70°	8195.3	27.9
70°-80°	5951.2	20.2
80°-90°	758.6	2.6
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°	29396.3	100.0
0°-180°	29396.3	100.0

Coefficient of Utilization



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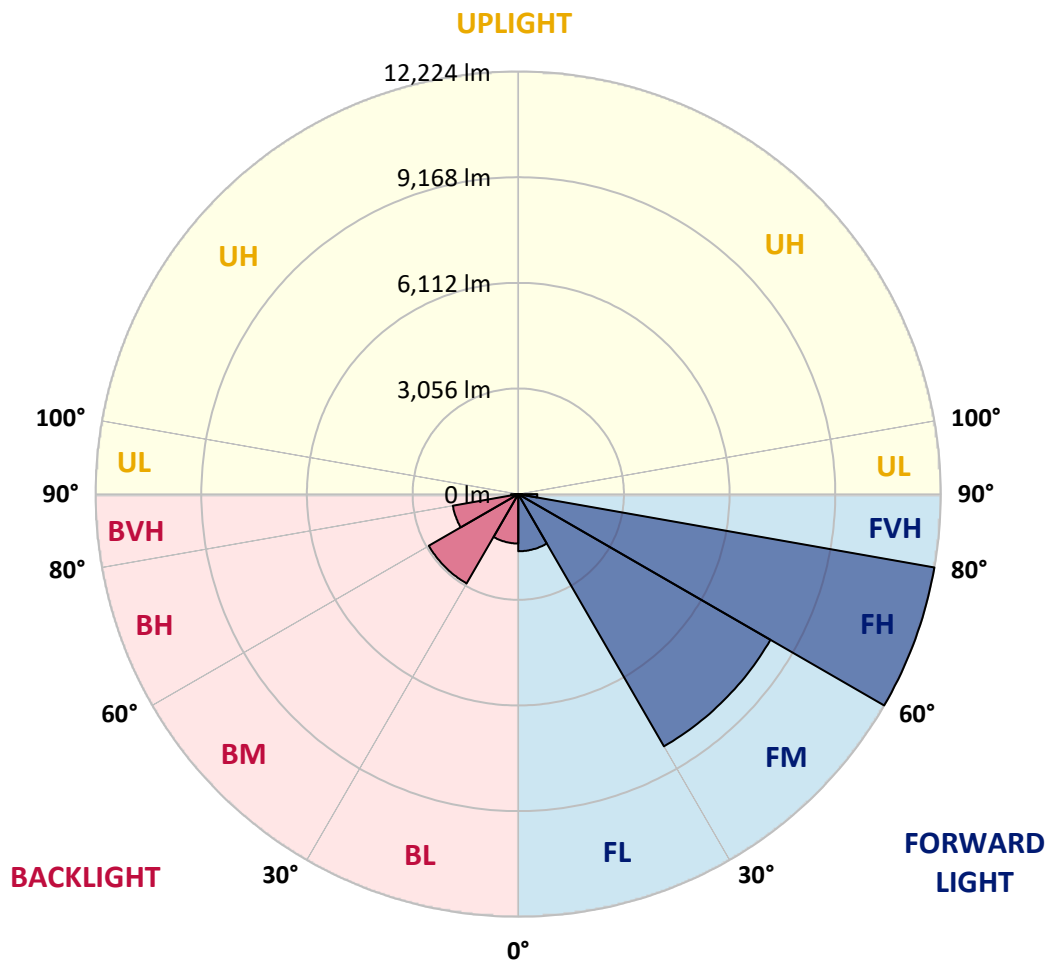
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1652.1	5.6			
FM (30°-60°)	8424.0	28.7			
FH (60°-80°)	12224.3	41.6			G5
FVH (80°-90°)	552.2	1.9			G4/750
BL (0°-30°)	1428.8	4.9	B3/2500		
BM (30°-60°)	2986.4	10.2	B3/5000		
BH (60°-80°)	1922.2	6.5	B3/2500		G3/2500
BVH (80°-90°)	206.5	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	3027.3	3027.3	3027.3	3027.3	3027.3	3027.3	3027.3	3027.3	3027.3	3027.3	3027.3
2.5°	3189.0	3208.0	3189.0	3185.8	3154.1	3131.9	3150.9	3122.4	3090.7	3078.0	3049.5
5°	3480.6	3483.8	3448.9	3452.1	3385.5	3315.7	3328.4	3242.8	3150.9	3116.0	3059.0
7.5°	3778.6	3743.7	3693.0	3677.1	3572.5	3496.4	3486.9	3410.8	3268.2	3189.0	3109.7
10°	3971.9	3984.6	3902.2	3832.4	3743.7	3651.8	3648.6	3505.9	3423.5	3306.2	3204.8
12.5°	4143.1	4146.3	4076.5	3965.6	3854.6	3740.5	3756.4	3693.0	3553.5	3442.5	3341.1
15°	4276.2	4257.2	4181.1	4079.7	3962.4	3873.7	3864.1	3810.3	3693.0	3601.0	3433.0
17.5°	4314.3	4304.8	4228.7	4120.9	4006.8	3940.2	3965.6	3876.8	3829.3	3746.9	3585.2
20°	4241.4	4219.2	4206.5	4086.0	4003.6	3997.3	3975.1	3994.1	3914.9	3838.8	3721.5
22.5°	4108.2	4098.7	4092.4	3997.3	3959.2	3987.8	4025.8	4054.3	4041.7	3968.8	3835.6
25°	3971.9	4016.3	3975.1	3930.7	3984.6	4057.5	4048.0	4139.9	4139.9	4117.7	4006.8
27.5°	4067.0	4038.5	4006.8	3984.6	4003.6	4117.7	4111.4	4222.3	4263.6	4222.3	4095.6
30°	4304.8	4276.2	4184.3	4086.0	4060.7	4184.3	4216.0	4314.3	4333.3	4231.9	4124.1
32.5°	4751.7	4735.9	4590.1	4301.6	4146.3	4216.0	4231.9	4342.8	4327.0	4263.6	4219.2
35°	5414.2	5360.4	5157.5	4669.3	4327.0	4257.2	4216.0	4304.8	4365.0	4333.3	4292.1
37.5°	6140.2	6079.9	5829.5	5211.4	4653.5	4368.2	4336.5	4409.4	4479.1	4463.3	4377.7
40°	6834.4	6834.4	6609.3	5889.7	5138.5	4637.6	4643.9	4561.5	4624.9	4596.4	4612.2
42.5°	7519.1	7493.7	7401.8	6685.4	5658.3	5087.7	4986.3	4780.3	4894.4	4884.9	4907.1
45°	8213.3	8194.3	8168.9	7427.1	6403.3	5696.4	5642.5	5271.6	5376.2	5331.8	5426.9
47.5°	8768.0	8790.2	8790.2	8254.5	7198.9	6507.9	6428.6	5842.2	6041.9	6064.1	6086.3
50°	9240.3	9249.9	9240.3	9043.8	8086.5	7436.7	7275.0	6679.0	6878.7	7053.1	7256.0
52.5°	9893.4	9906.0	9861.7	9785.6	9291.1	8413.0	8232.3	7569.8	7978.7	8162.6	8527.1
55°	10698.5	10603.4	10521.0	10578.1	10448.1	9487.6	9300.6	8489.1	9104.0	9348.1	10077.2
57.5°	10847.5	10929.9	11139.1	11592.4	11779.5	10533.7	10425.9	9617.6	10375.2	10587.6	11804.8
60°	11373.7	11237.4	11750.9	12733.6	12942.8	11896.8	11785.8	10853.8	11640.0	11861.9	13399.3
62.5°	11719.2	11712.9	12473.7	13640.2	14115.7	13310.5	13085.5	12461.0	13006.2	13221.8	15136.4
65°	11617.8	11709.7	13060.1	14172.8	15095.2	14917.7	14787.7	13843.1	14562.7	14543.6	16268.1
67.5°	10692.2	10952.1	12689.2	14556.3	16553.4	16876.7	16835.5	15786.3	15827.5	15424.9	16772.1
70°	9408.4	9319.6	11120.1	14156.9	17282.5	19200.3	19190.8	17231.7	16965.5	15618.2	15326.6
72°	7227.4	7129.2	8609.5	12156.7	16898.9	20129.1	20414.4	18233.4	16952.8	14816.3	12660.7
72.5°	6561.8	6476.2	7950.2	11443.5	16474.1	20370.0	20236.8	18271.5	16819.7	14439.0	11827.0
75°	3020.9	2922.7	3971.9	7005.5	12850.9	18049.6	18502.9	17098.6	14689.5	11494.2	7084.8
77.5°	900.3	871.7	1277.5	2827.6	7468.4	13297.9	13472.2	12901.6	10254.7	6295.5	2627.9
80°	500.8	504.0	659.3	1058.8	3284.0	7687.1	8314.7	7969.2	5030.7	2079.5	874.9
82.5°	279.0	294.8	412.1	627.6	1508.9	3528.1	3797.6	3661.3	1819.5	976.3	478.7
85°	145.8	152.2	215.6	336.0	855.9	1115.8	1147.5	1229.9	944.6	665.7	256.8
87.5°	57.1	57.1	79.2	139.5	317.0	345.5	310.7	377.2	542.1	431.1	126.8
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°	3027.3	3027.3	3027.3	3027.3	3027.3	3027.3	3027.3	3027.3	3027.3	3027.3	3027.3
2.5°	3074.8	3049.5	3046.3	3005.1	3017.8	2982.9	2986.1	2979.7	2982.9	2976.6	2960.7
5°	3059.0	3040.0	2986.1	3020.9	2989.2	3033.6	3068.5	3055.8	3065.3	3062.2	3065.3
7.5°	3081.2	3055.8	3049.5	3030.5	3059.0	3078.0	3106.5	3185.8	3179.4	3189.0	3208.0
10°	3147.7	3119.2	3100.2	3128.7	3112.9	3173.1	3204.8	3246.0	3318.9	3322.1	3284.0
12.5°	3277.7	3258.7	3220.6	3227.0	3280.9	3299.9	3318.9	3344.3	3391.8	3382.3	3417.2
15°	3426.7	3385.5	3363.3	3357.0	3369.6	3391.8	3388.7	3414.0	3439.4	3461.6	3452.1
17.5°	3534.5	3480.6	3486.9	3518.6	3515.5	3509.1	3467.9	3455.2	3467.9	3480.6	3474.2
20°	3645.4	3651.8	3604.2	3575.7	3563.0	3499.6	3467.9	3429.9	3391.8	3410.8	3439.4
22.5°	3784.9	3756.4	3686.6	3601.0	3537.6	3499.6	3401.3	3334.8	3334.8	3353.8	3344.3
25°	3943.4	3883.2	3762.7	3607.4	3528.1	3366.5	3296.7	3287.2	3261.9	3290.4	3303.1
27.5°	4067.0	4013.1	3848.3	3585.2	3366.5	3236.5	3195.3	3182.6	3223.8	3227.0	3277.7
30°	4117.7	4101.9	3861.0	3528.1	3201.6	2992.4	2967.1	3024.1	3068.5	3135.1	3138.2
32.5°	4184.3	4190.6	3880.0	3395.0	2986.1	2776.9	2738.8	2808.6	2935.4	2989.2	3030.5
35°	4295.3	4327.0	3864.1	3230.2	2757.8	2558.1	2551.8	2570.8	2694.4	2789.5	2843.4
37.5°	4488.6	4482.3	3861.0	3033.6	2577.2	2367.9	2317.2	2323.6	2406.0	2485.2	2475.7
40°	4748.6	4723.2	3851.5	2776.9	2342.6	2206.3	2120.7	2089.0	2082.6	2060.5	2066.8
42.5°	5103.6	5052.9	3848.3	2516.9	2130.2	1984.4	1924.1	1841.7	1781.5	1667.4	1673.7
45°	5598.1	5509.3	3765.9	2272.8	1921.0	1800.5	1708.6	1648.4	1518.4	1375.7	1375.7
47.5°	6362.1	6073.6	3769.0	2003.4	1718.1	1619.8	1556.4	1451.8	1312.4	1198.2	1185.6
50°	7487.4	6828.0	3661.3	1791.0	1553.3	1486.7	1420.1	1299.7	1166.5	1087.3	1096.8
52.5°	8939.2	7953.4	3658.1	1600.8	1423.3	1375.7	1302.8	1195.1	1096.8	1046.1	1027.1
55°	10670.0	9443.2	3772.2	1445.5	1290.2	1264.8	1233.1	1144.3	1049.2	1004.9	1001.7
57.5°	12442.0	10898.2	3956.1	1334.5	1176.0	1195.1	1172.9	1103.1	1027.1	976.3	970.0
60°	14017.4	12052.1	3585.2	1201.4	1074.6	1115.8	1147.5	1087.3	1046.1	1042.9	1020.7
62.5°	15206.2	12546.6	2726.1	1100.0	1020.7	1096.8	1182.4	1220.4	1201.4	1226.8	1229.9
65°	15640.4	12248.6	1876.6	1046.1	979.5	1141.2	1331.4	1318.7	1207.7	1160.2	1185.6
67.5°	15031.8	11040.9	1391.6	982.7	951.0	1233.1	1417.0	1258.5	1090.5	1084.1	1065.1
70°	12927.0	9357.6	1134.8	916.1	903.4	1182.4	1378.9	1166.5	1027.1	985.8	966.8
72°	10299.1	7287.7	995.4	868.6	827.4	1055.6	1290.2	1093.6	973.2	922.4	900.3
72.5°	9402.0	6755.1	976.3	846.4	811.5	1027.1	1245.8	1071.4	960.5	916.1	881.2
75°	5157.5	3458.4	859.1	776.6	684.7	887.6	1153.9	1004.9	906.6	843.2	836.9
77.5°	1917.8	1340.9	741.8	687.9	592.8	767.1	1049.2	954.1	824.2	744.9	729.1
80°	735.4	706.9	605.5	580.1	497.7	672.0	966.8	855.9	700.6	621.3	595.9
82.5°	447.0	412.1	459.6	453.3	380.4	611.8	909.8	802.0	621.3	504.0	488.2
85°	244.1	244.1	320.2	307.5	266.3	488.2	687.9	532.5	393.1	323.3	329.7
87.5°	107.8	126.8	171.2	161.7	145.8	275.8	336.0	282.1	196.5	133.1	142.6
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)