

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: P478484

Luminaire Tested: **IFLD-S-SA6B-730-U-T4W**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478484
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6B-730-U-T4W
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (96) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

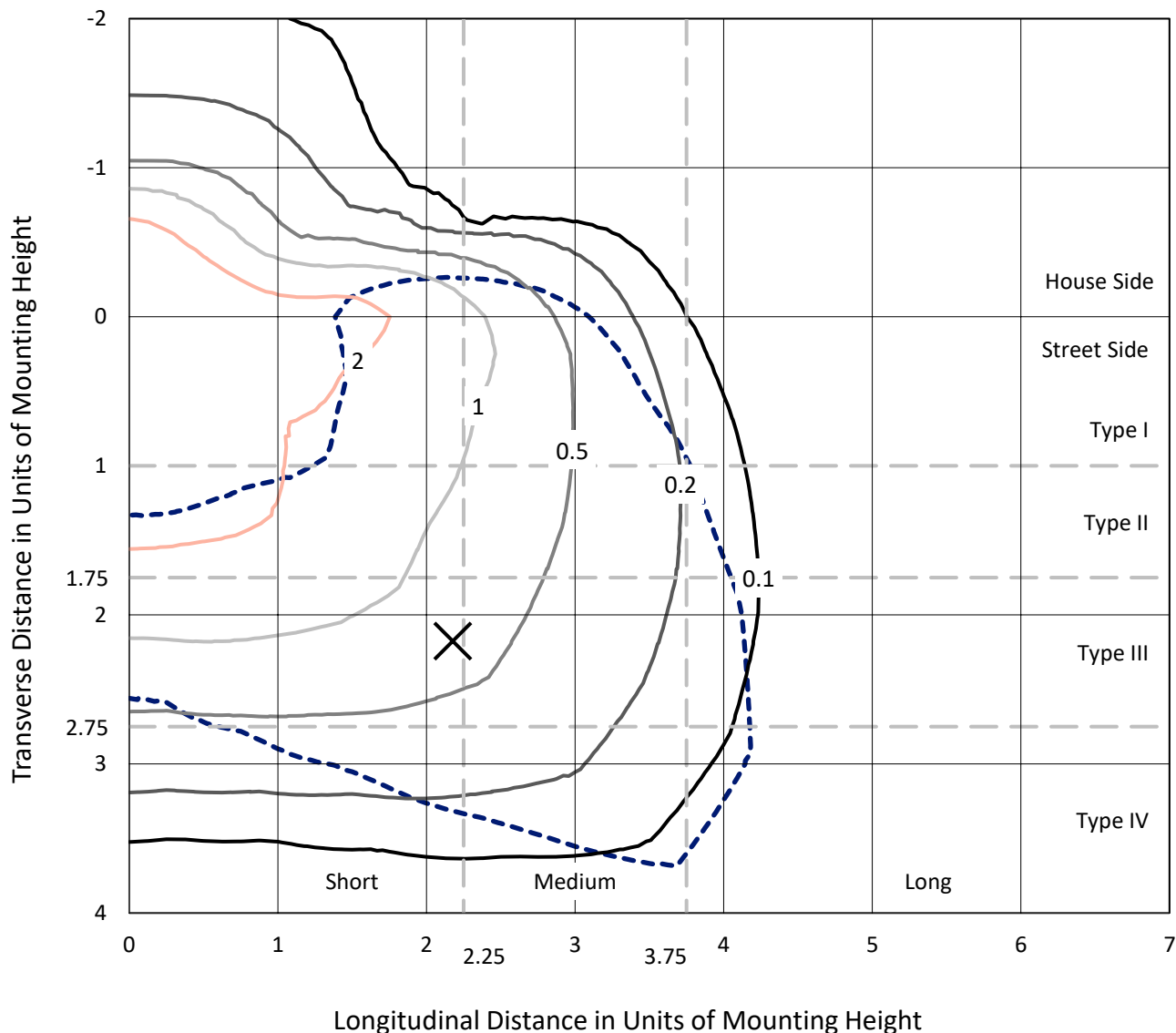
Lumens per Lamp: N/A
Luminaire Lumens: 30723.2 lumens
Efficiency: N/A
Efficacy: 125.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 244.9
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

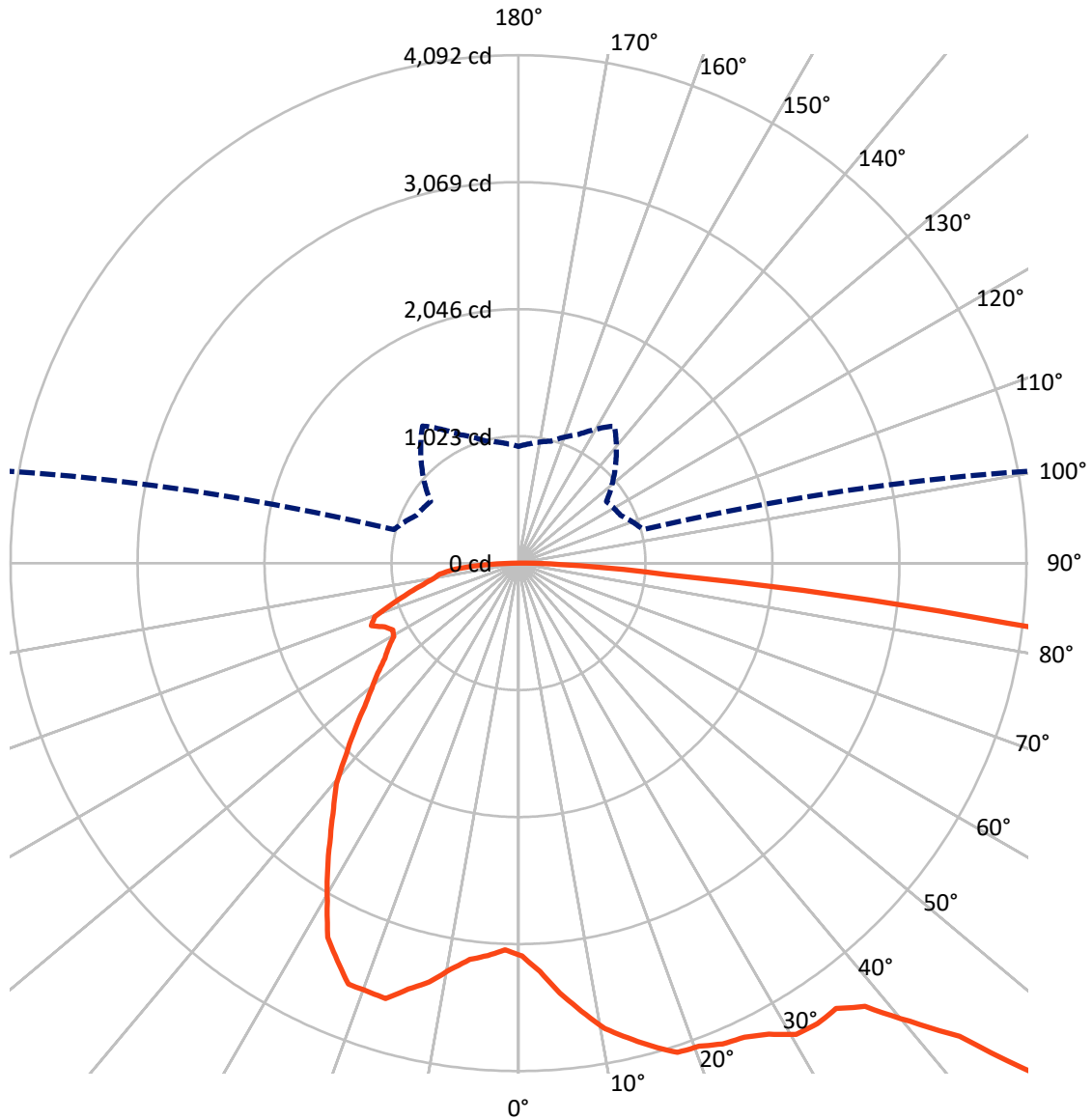
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.5 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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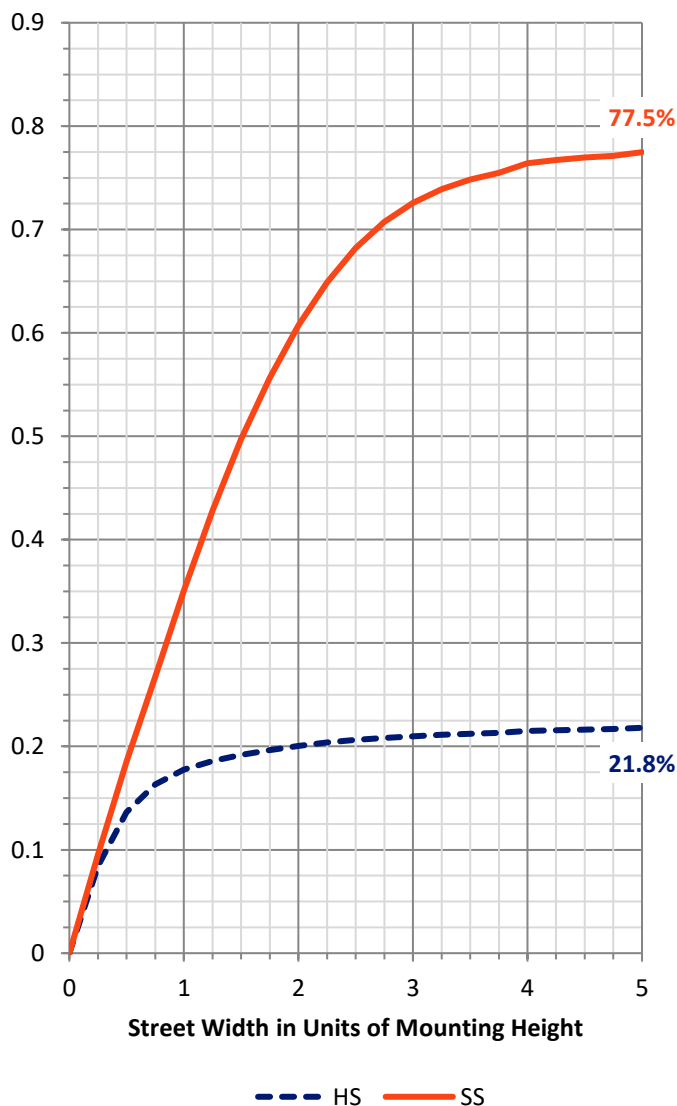
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6839.2	0.0	6839.2
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	23884.0	0.0	23884.0
	% Fixture	77.7	0.0	77.7
Total	Lumens	30723.2	0.0	30723.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	323.8	1.1
10°-20°	1077.2	3.5
20°-30°	1819.0	5.9
30°-40°	2517.2	8.2
40°-50°	3600.7	11.7
50°-60°	5807.5	18.9
60°-70°	8565.2	27.9
70°-80°	6219.8	20.2
80°-90°	792.9	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°	30723.2	100.0
0°-180°	30723.2	100.0

Coefficient of Utilization



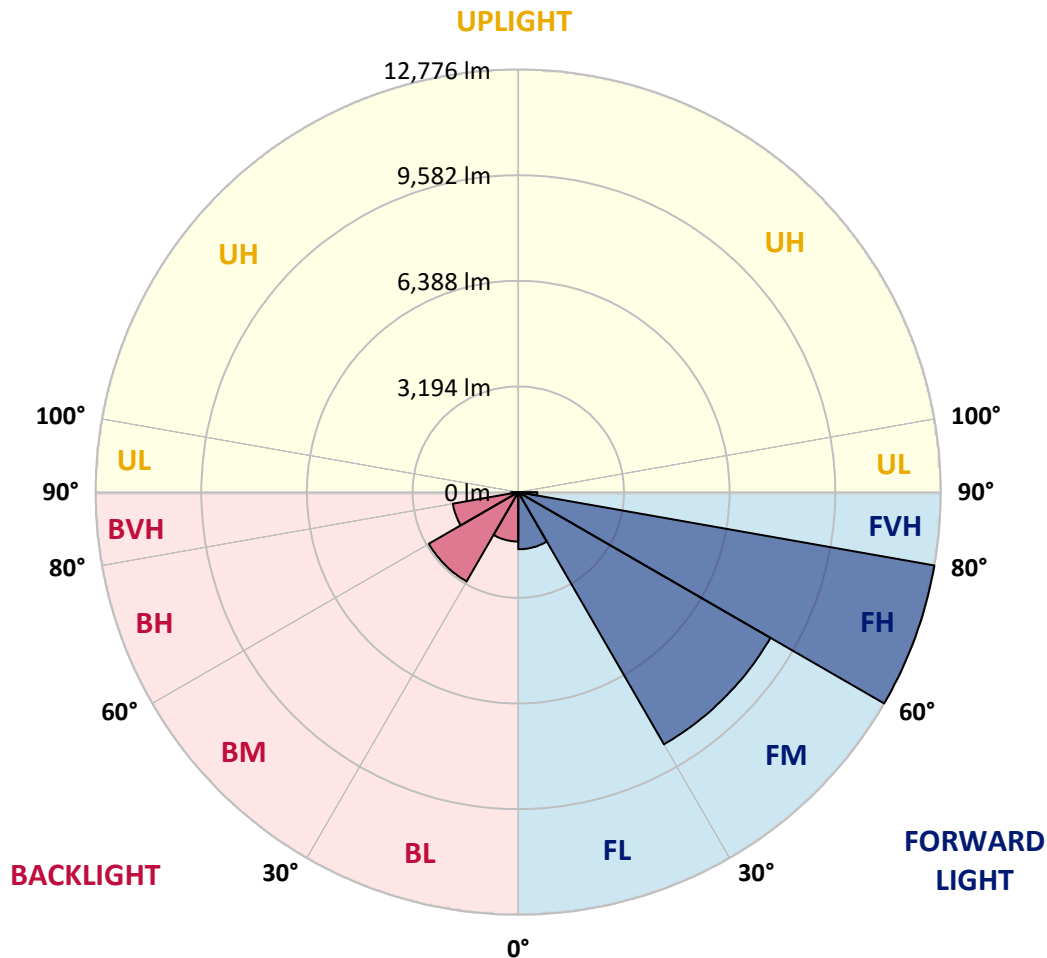
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1726.7	5.6			
FM (30°-60°)	8804.2	28.7			
FH (60°-80°)	12776.1	41.6			G5
FVH (80°-90°)	577.1	1.9			G4/750
BL (0°-30°)	1493.3	4.9	B3/2500		
BM (30°-60°)	3121.2	10.2	B3/5000		
BH (60°-80°)	2008.9	6.5	B3/2500		G3/2500
BVH (80°-90°)	215.8	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°	3163.9	3163.9	3163.9	3163.9	3163.9	3163.9	3163.9	3163.9	3163.9	3163.9	3163.9
2.5°	3332.9	3352.8	3332.9	3329.6	3296.5	3273.3	3293.1	3263.3	3230.2	3216.9	3187.1
5°	3637.7	3641.0	3604.6	3607.9	3538.3	3465.4	3478.7	3389.2	3293.1	3256.7	3197.1
7.5°	3949.1	3912.7	3859.7	3843.1	3733.8	3654.3	3644.3	3564.8	3415.7	3332.9	3250.1
10°	4151.2	4164.5	4078.3	4005.4	3912.7	3816.6	3813.3	3664.2	3578.1	3455.5	3349.5
12.5°	4330.1	4333.4	4260.5	4144.6	4028.6	3909.4	3925.9	3859.7	3713.9	3597.9	3491.9
15°	4469.3	4449.4	4369.9	4263.9	4141.3	4048.5	4038.6	3982.2	3859.7	3763.6	3588.0
17.5°	4509.0	4499.1	4419.6	4306.9	4187.7	4118.1	4144.6	4051.8	4002.1	3916.0	3747.0
20°	4432.8	4409.6	4396.4	4270.5	4184.3	4177.7	4154.5	4174.4	4091.6	4012.1	3889.5
22.5°	4293.7	4283.7	4277.1	4177.7	4138.0	4167.8	4207.5	4237.4	4224.1	4147.9	4008.8
25°	4151.2	4197.6	4154.5	4108.1	4164.5	4240.7	4230.7	4326.8	4326.8	4303.6	4187.7
27.5°	4250.6	4220.8	4187.7	4164.5	4184.3	4303.6	4297.0	4412.9	4456.0	4412.9	4280.4
30°	4499.1	4469.3	4373.2	4270.5	4244.0	4373.2	4406.3	4509.0	4528.9	4422.9	4310.2
32.5°	4966.2	4949.6	4797.3	4495.8	4333.4	4406.3	4422.9	4538.8	4522.3	4456.0	4409.6
35°	5658.6	5602.3	5390.3	4880.1	4522.3	4449.4	4406.3	4499.1	4562.0	4528.9	4485.8
37.5°	6417.3	6354.4	6092.6	5446.6	4863.5	4565.3	4532.2	4608.4	4681.3	4664.7	4575.3
40°	7142.9	7142.9	6907.6	6155.6	5370.4	4846.9	4853.6	4767.4	4833.7	4803.9	4820.4
42.5°	7858.5	7832.0	7735.9	6987.2	5913.7	5317.4	5211.4	4996.0	5115.3	5105.4	5128.6
45°	8584.0	8564.2	8537.6	7762.4	6692.3	5953.5	5897.2	5509.5	5618.9	5572.5	5671.9
47.5°	9163.8	9187.0	9187.0	8627.1	7523.9	6801.6	6718.8	6105.9	6314.6	6337.8	6361.0
50°	9657.4	9667.4	9657.4	9452.0	8451.5	7772.3	7603.4	6980.5	7189.2	7371.5	7583.5
52.5°	10339.9	10353.2	10306.8	10227.3	9710.5	8792.7	8603.9	7911.5	8338.9	8531.0	8912.0
55°	11181.4	11082.0	10995.9	11055.5	10919.7	9915.9	9720.4	8872.3	9515.0	9770.1	10532.1
57.5°	11337.1	11423.3	11641.9	12115.7	12311.2	11009.2	10896.5	10051.7	10843.5	11065.5	12337.7
60°	11887.1	11744.6	12281.4	13308.4	13527.1	12433.8	12317.8	11343.8	12165.4	12397.3	14004.1
62.5°	12248.2	12241.6	13036.7	14255.9	14752.9	13911.4	13676.1	13023.5	13593.3	13818.6	15819.7
65°	12142.2	12238.3	13649.6	14812.5	15776.6	15591.1	15455.2	14467.9	15220.0	15200.1	17002.4
67.5°	11174.8	11446.5	13262.0	15213.4	17300.6	17638.5	17595.4	16498.8	16541.9	16121.1	17529.2
70°	9833.0	9740.3	11622.1	14795.9	18062.6	20067.0	20057.0	18009.6	17731.3	16323.2	16018.4
72°	7553.7	7451.0	8998.2	12705.4	17661.7	21037.7	21335.8	19056.5	17718.0	15485.0	13232.2
72.5°	6857.9	6768.5	8309.0	11960.0	17217.8	21289.5	21150.3	19096.2	17578.9	15090.8	12360.9
75°	3157.3	3054.6	4151.2	7321.8	13431.0	18864.3	19338.1	17870.4	15352.5	12013.0	7404.6
77.5°	940.9	911.1	1335.1	2955.2	7805.5	13898.1	14080.3	13484.0	10717.6	6579.7	2746.5
80°	523.5	526.8	689.1	1106.5	3432.3	8034.1	8690.0	8328.9	5257.8	2173.3	914.4
82.5°	291.5	308.1	430.7	656.0	1577.0	3687.4	3969.0	3826.5	1901.7	1020.4	500.3
85°	152.4	159.0	225.3	351.2	894.5	1166.2	1199.3	1285.5	987.3	695.7	268.4
87.5°	59.6	59.6	82.8	145.8	331.3	361.1	324.7	394.2	566.5	450.6	132.5
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°	3163.9	3163.9	3163.9	3163.9	3163.9	3163.9	3163.9	3163.9	3163.9	3163.9	3163.9
2.5°	3213.6	3187.1	3183.8	3140.7	3154.0	3117.6	3120.9	3114.2	3117.6	3110.9	3094.4
5°	3197.1	3177.2	3120.9	3157.3	3124.2	3170.6	3207.0	3193.7	3203.7	3200.4	3203.7
7.5°	3220.3	3193.7	3187.1	3167.2	3197.1	3216.9	3246.8	3329.6	3323.0	3332.9	3352.8
10°	3289.8	3260.0	3240.1	3269.9	3253.4	3316.3	3349.5	3392.5	3468.7	3472.0	3432.3
12.5°	3425.7	3405.8	3366.0	3372.7	3429.0	3448.9	3468.7	3495.2	3544.9	3535.0	3571.4
15°	3581.4	3538.3	3515.1	3508.5	3521.7	3544.9	3541.6	3568.1	3594.6	3617.8	3607.9
17.5°	3694.0	3637.7	3644.3	3677.5	3674.1	3667.5	3624.4	3611.2	3624.4	3637.7	3631.1
20°	3810.0	3816.6	3766.9	3737.1	3723.8	3657.6	3624.4	3584.7	3544.9	3564.8	3594.6
22.5°	3955.7	3925.9	3853.0	3763.6	3697.3	3657.6	3554.9	3485.3	3485.3	3505.2	3495.2
25°	4121.4	4058.4	3932.6	3770.2	3687.4	3518.4	3445.5	3435.6	3409.1	3438.9	3452.2
27.5°	4250.6	4194.3	4022.0	3747.0	3518.4	3382.6	3339.5	3326.3	3369.3	3372.7	3425.7
30°	4303.6	4287.0	4035.3	3687.4	3346.1	3127.5	3101.0	3160.6	3207.0	3276.6	3279.9
32.5°	4373.2	4379.8	4055.1	3548.2	3120.9	2902.2	2862.4	2935.3	3067.9	3124.2	3167.2
35°	4489.1	4522.3	4038.6	3376.0	2882.3	2673.6	2667.0	2686.9	2816.1	2915.5	2971.8
37.5°	4691.2	4684.6	4035.3	3170.6	2693.5	2474.8	2421.8	2428.4	2514.6	2597.4	2587.5
40°	4962.9	4936.4	4025.3	2902.2	2448.3	2305.9	2216.4	2183.3	2176.7	2153.5	2160.1
42.5°	5334.0	5281.0	4022.0	2630.5	2226.3	2073.9	2011.0	1924.9	1861.9	1742.6	1749.3
45°	5850.8	5758.0	3935.9	2375.4	2007.7	1881.8	1785.7	1722.8	1586.9	1437.8	1437.8
47.5°	6649.2	6347.7	3939.2	2093.8	1795.7	1693.0	1626.7	1517.4	1371.6	1252.3	1239.1
50°	7825.3	7136.2	3826.5	1871.9	1623.4	1553.8	1484.2	1358.3	1219.2	1136.4	1146.3
52.5°	9342.7	8312.4	3823.2	1673.1	1487.5	1437.8	1361.7	1249.0	1146.3	1093.3	1073.4
55°	11151.6	9869.5	3942.5	1510.7	1348.4	1321.9	1288.8	1196.0	1096.6	1050.2	1046.9
57.5°	13003.6	11390.2	4134.6	1394.8	1229.1	1249.0	1225.8	1152.9	1073.4	1020.4	1013.8
60°	14650.2	12596.1	3747.0	1255.6	1123.1	1166.2	1199.3	1136.4	1093.3	1090.0	1066.8
62.5°	15892.5	13112.9	2849.2	1149.6	1066.8	1146.3	1235.8	1275.5	1255.6	1282.1	1285.5
65°	16346.4	12801.5	1961.3	1093.3	1023.7	1192.7	1391.5	1378.2	1262.3	1212.6	1239.1
67.5°	15710.3	11539.2	1454.4	1027.0	993.9	1288.8	1480.9	1315.3	1139.7	1133.1	1113.2
70°	13510.5	9780.0	1186.1	957.5	944.2	1235.8	1441.2	1219.2	1073.4	1030.3	1010.5
72°	10764.0	7616.6	1040.3	907.8	864.7	1103.2	1348.4	1143.0	1017.1	964.1	940.9
72.5°	9826.4	7060.0	1020.4	884.6	848.1	1073.4	1302.0	1119.8	1003.8	957.5	921.0
75°	5390.3	3614.5	897.8	811.7	715.6	927.6	1205.9	1050.2	947.5	881.3	874.6
77.5°	2004.4	1401.4	775.2	718.9	619.5	801.8	1096.6	997.2	861.4	778.6	762.0
80°	768.6	738.8	632.8	606.3	520.1	702.4	1010.5	894.5	732.2	649.4	622.8
82.5°	467.1	430.7	480.4	473.8	397.6	639.4	950.8	838.2	649.4	526.8	510.2
85°	255.1	255.1	334.6	321.4	278.3	510.2	718.9	556.6	410.8	337.9	344.6
87.5°	112.6	132.5	178.9	169.0	152.4	288.2	351.2	294.9	205.4	139.1	149.1
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)