

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: P478492

Luminaire Tested: **IFLD-M-SA4E-730-U-T4W**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478492
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4E-730-U-T4W
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (64) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

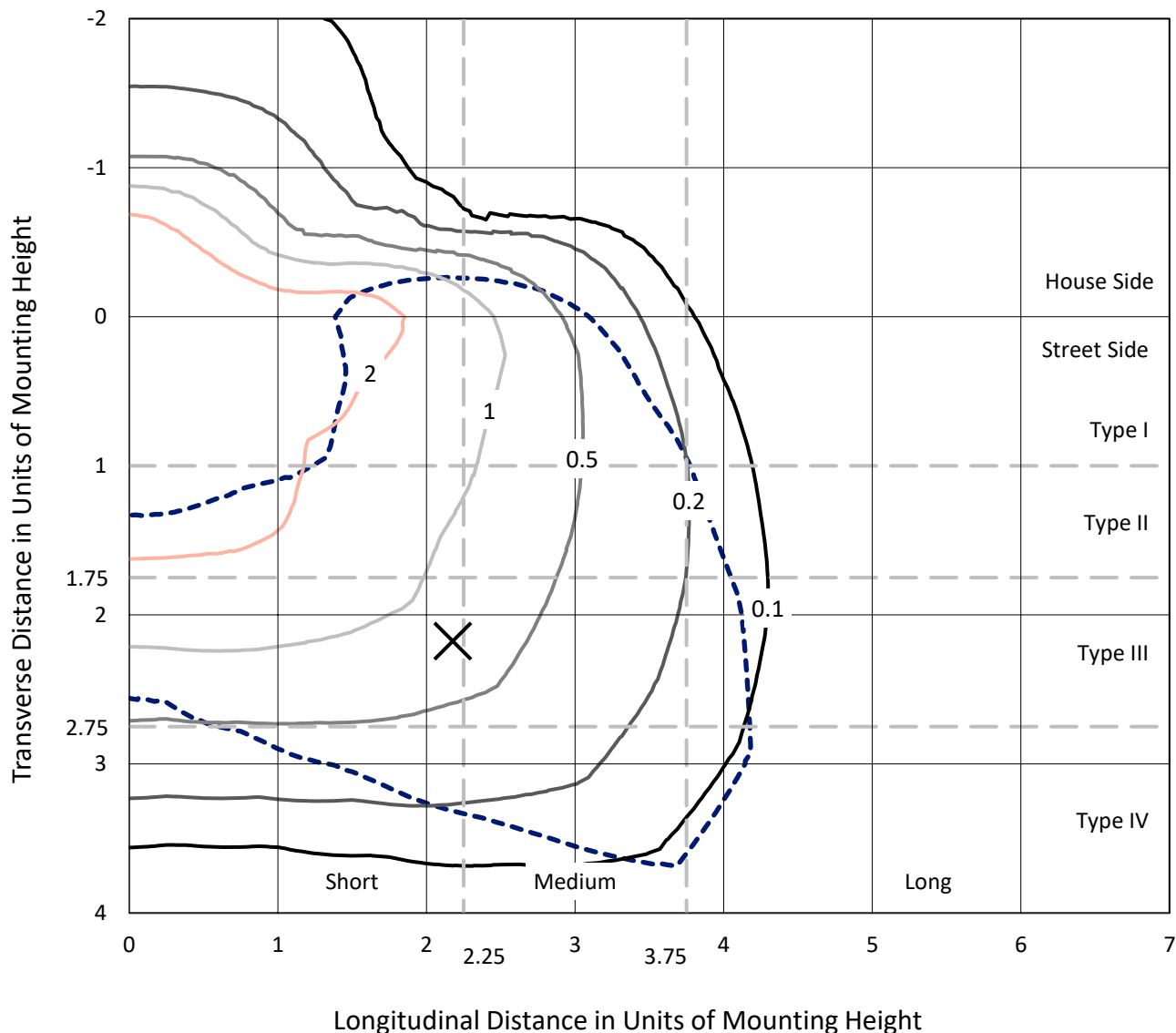
Lumens per Lamp: N/A
Luminaire Lumens: 33323.3 lumens
Efficiency: N/A
Efficacy: 105.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 314.8
Input Voltage (V): 120
Input Current (A_{in}): 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

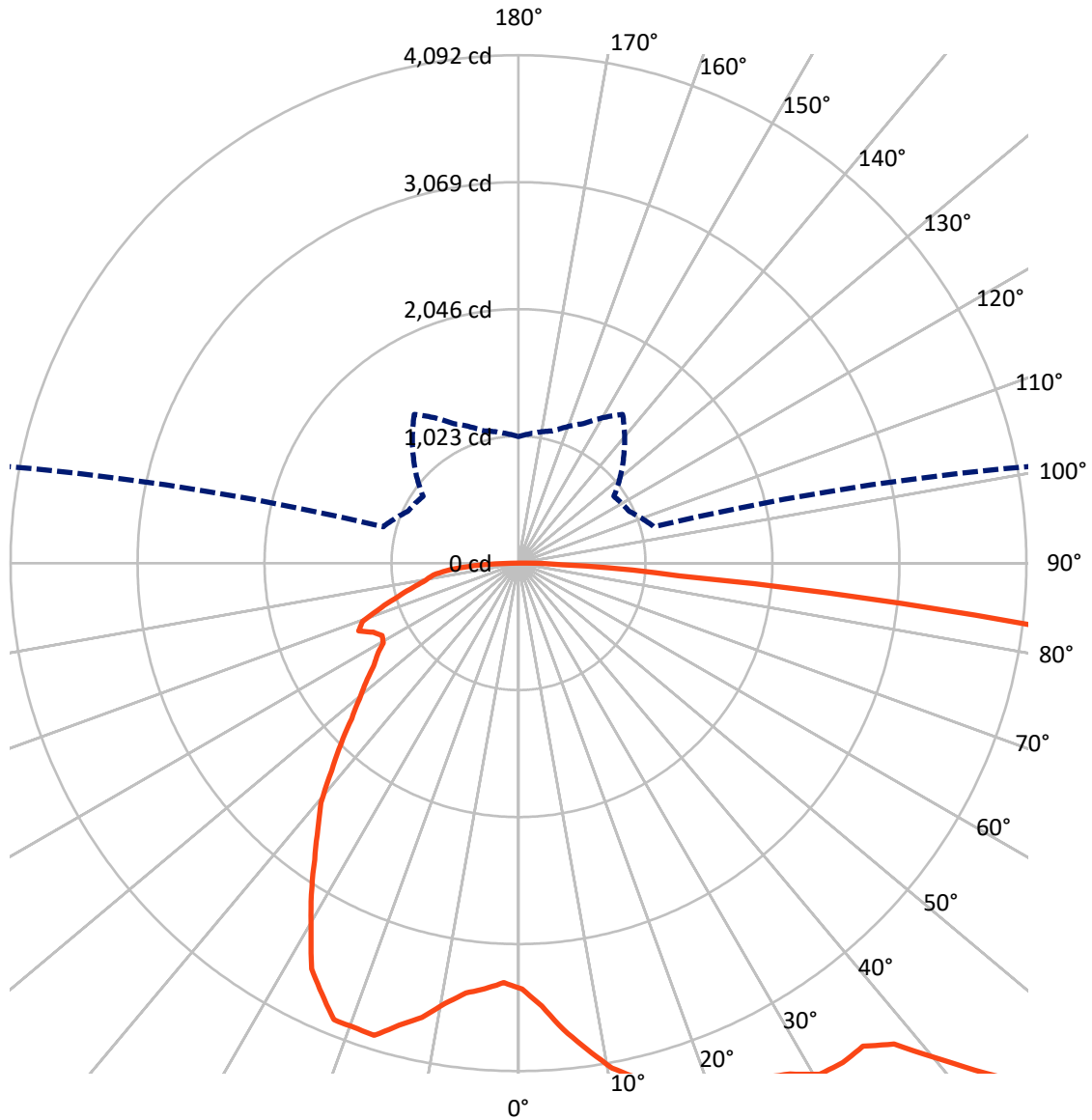
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.9 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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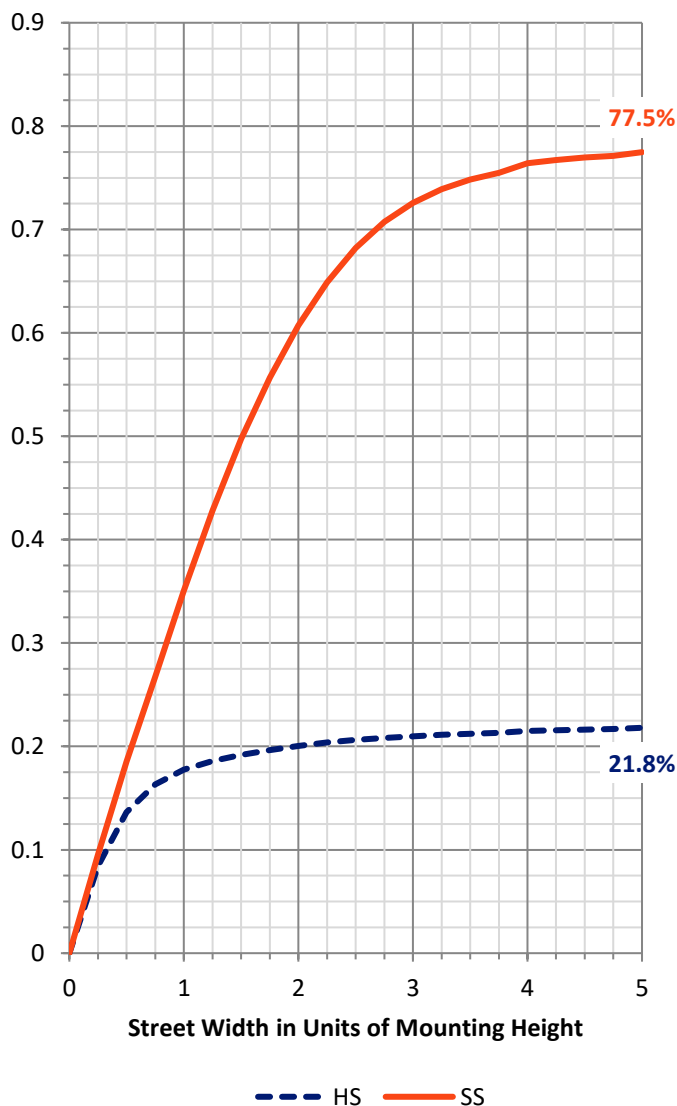
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7418.0	0.0	7418.0
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	25905.3	0.0	25905.3
	% Fixture	77.7	0.0	77.7
Total	Lumens	33323.3	0.0	33323.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	351.2	1.1
10°-20°	1168.3	3.5
20°-30°	1973.0	5.9
30°-40°	2730.3	8.2
40°-50°	3905.4	11.7
50°-60°	6299.0	18.9
60°-70°	9290.1	27.9
70°-80°	6746.2	20.2
80°-90°	860.0	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°	33323.3	100.0
0°-180°	33323.3	100.0

Coefficient of Utilization



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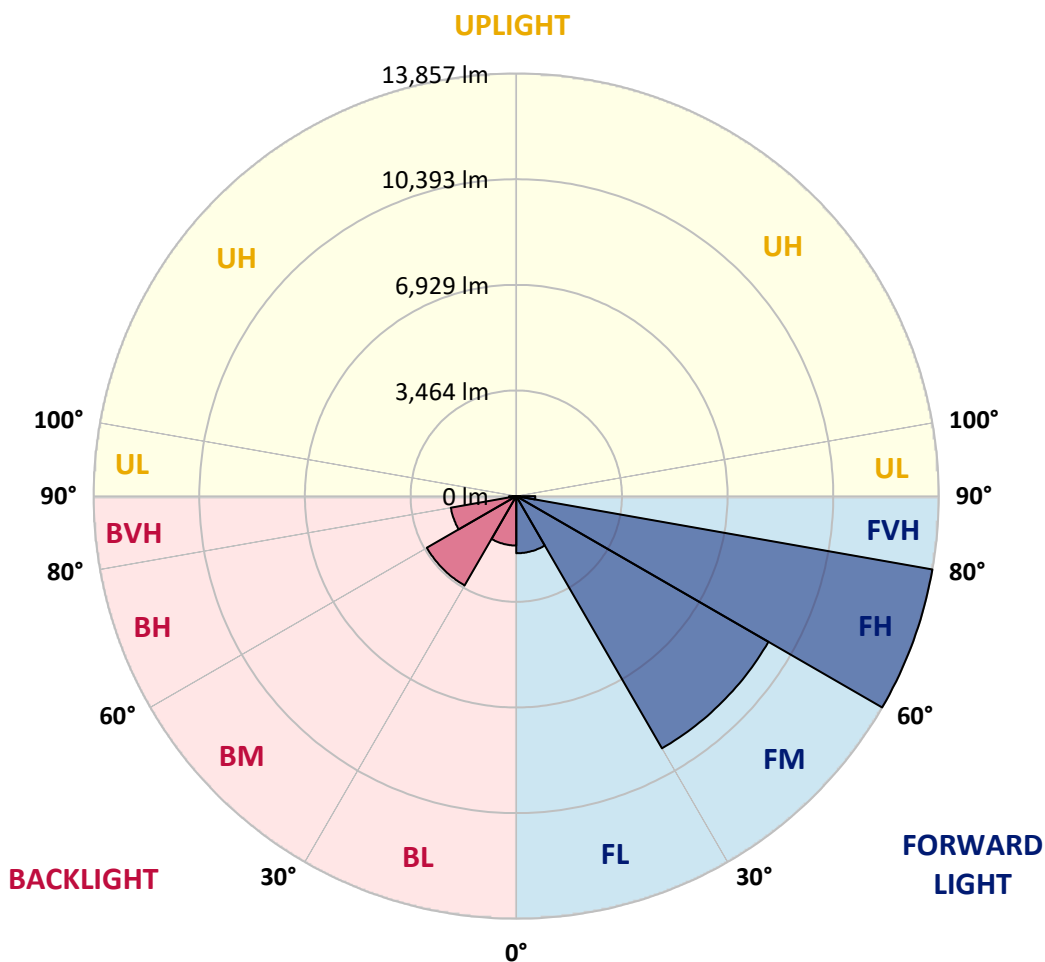
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1872.8	5.6			
FM (30°-60°)	9549.3	28.7			
FH (60°-80°)	13857.3	41.6			G5
FVH (80°-90°)	625.9	1.9			G4/750
BL (0°-30°)	1619.7	4.9	B3/2500		
BM (30°-60°)	3385.3	10.2	B3/5000		
BH (60°-80°)	2178.9	6.5	B3/2500		G3/2500
BVH (80°-90°)	234.0	0.7			G3/500
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°	3431.7	3431.7	3431.7	3431.7	3431.7	3431.7	3431.7	3431.7	3431.7	3431.7	3431.7
2.5°	3615.0	3636.5	3615.0	3611.4	3575.4	3550.3	3571.8	3539.5	3503.6	3489.2	3456.8
5°	3945.6	3949.1	3909.6	3913.2	3837.7	3758.7	3773.1	3676.0	3571.8	3532.3	3467.6
7.5°	4283.3	4243.8	4186.3	4168.3	4049.8	3963.5	3952.7	3866.5	3704.8	3615.0	3525.1
10°	4502.5	4516.9	4423.5	4344.4	4243.8	4139.6	4136.0	3974.3	3880.9	3747.9	3632.9
12.5°	4696.6	4700.2	4621.1	4495.3	4369.6	4240.2	4258.2	4186.3	4028.2	3902.4	3787.4
15°	4847.5	4825.9	4739.7	4624.7	4491.7	4391.1	4380.4	4319.3	4186.3	4082.1	3891.7
17.5°	4890.6	4879.8	4793.6	4671.4	4542.1	4466.6	4495.3	4394.7	4340.8	4247.4	4064.1
20°	4808.0	4782.8	4768.4	4631.9	4538.5	4531.3	4506.1	4527.7	4437.8	4351.6	4218.6
22.5°	4657.0	4646.3	4639.1	4531.3	4488.2	4520.5	4563.6	4596.0	4581.6	4498.9	4348.0
25°	4502.5	4552.8	4506.1	4455.8	4516.9	4599.5	4588.8	4693.0	4693.0	4667.8	4542.1
27.5°	4610.3	4578.0	4542.1	4516.9	4538.5	4667.8	4660.6	4786.4	4833.1	4786.4	4642.7
30°	4879.8	4847.5	4743.3	4631.9	4603.1	4743.3	4779.2	4890.6	4912.2	4797.2	4675.0
32.5°	5386.5	5368.5	5203.2	4876.2	4700.2	4779.2	4797.2	4923.0	4905.0	4833.1	4782.8
35°	6137.5	6076.4	5846.5	5293.1	4905.0	4825.9	4779.2	4879.8	4948.1	4912.2	4865.5
37.5°	6960.4	6892.1	6608.3	5907.5	5275.1	4951.7	4915.8	4998.4	5077.5	5059.5	4962.5
40°	7747.4	7747.4	7492.2	6676.5	5824.9	5257.1	5264.3	5170.9	5242.8	5210.4	5228.4
42.5°	8523.5	8494.8	8390.6	7578.5	6414.2	5767.4	5652.4	5418.8	5548.2	5537.4	5562.6
45°	9310.5	9288.9	9260.2	8419.3	7258.7	6457.3	6396.2	5975.8	6094.4	6044.1	6151.9
47.5°	9939.3	9964.5	9964.5	9357.2	8160.6	7377.2	7287.4	6622.6	6849.0	6874.2	6899.3
50°	10474.8	10485.5	10474.8	10252.0	9166.8	8430.1	8246.8	7571.3	7797.7	7995.3	8225.3
52.5°	11215.0	11229.4	11179.1	11092.8	10532.2	9536.9	9332.1	8581.0	9044.6	9253.0	9666.2
55°	12127.7	12019.9	11926.5	11991.2	11843.8	10755.0	10543.0	9623.1	10320.2	10596.9	11423.4
57.5°	12296.6	12390.0	12627.2	13141.1	13353.1	11940.9	11818.7	10902.4	11761.2	12001.9	13381.8
60°	12893.1	12738.6	13320.7	14434.7	14671.8	13486.0	13360.3	12303.8	13195.0	13446.5	15189.3
62.5°	13284.8	13277.6	14140.0	15462.4	16001.4	15088.7	14833.5	14125.6	14743.7	14988.1	17158.5
65°	13169.8	13274.0	14804.8	16066.1	17111.8	16910.5	16763.2	15692.4	16508.1	16486.5	18441.3
67.5°	12120.5	12415.2	14384.4	16500.9	18764.7	19131.3	19084.5	17895.1	17941.8	17485.5	19012.7
70°	10665.2	10564.6	12605.6	16048.1	19591.2	21765.2	21754.4	19533.7	19231.9	17704.7	17374.1
72°	8192.9	8081.6	9759.7	13780.7	19156.4	22818.1	23141.5	20669.2	19217.5	16795.5	14352.0
72.5°	7438.3	7341.3	9012.2	12972.2	18674.9	23091.2	22940.3	20712.3	19066.6	16367.9	13407.0
75°	3424.5	3313.1	4502.5	7941.4	14567.6	20460.8	20974.7	19382.8	16651.8	13029.7	8031.2
77.5°	1020.5	988.2	1448.1	3205.3	8466.0	15074.3	15271.9	14625.1	11624.6	7136.5	2978.9
80°	567.8	571.4	747.4	1200.2	3722.8	8714.0	9425.5	9033.8	5702.7	2357.3	991.8
82.5°	316.2	334.2	467.1	711.5	1710.5	3999.5	4304.9	4150.4	2062.6	1106.8	542.6
85°	165.3	172.5	244.4	380.9	970.2	1264.9	1300.8	1394.2	1070.8	754.6	291.1
87.5°	64.7	64.7	89.8	158.1	359.3	391.7	352.2	427.6	614.5	488.7	143.7
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°	3431.7	3431.7	3431.7	3431.7	3431.7	3431.7	3431.7	3431.7	3431.7	3431.7	3431.7
2.5°	3485.6	3456.8	3453.3	3406.5	3420.9	3381.4	3385.0	3377.8	3381.4	3374.2	3356.2
5°	3467.6	3446.1	3385.0	3424.5	3388.6	3438.9	3478.4	3464.0	3474.8	3471.2	3474.8
7.5°	3492.8	3464.0	3456.8	3435.3	3467.6	3489.2	3521.5	3611.4	3604.2	3615.0	3636.5
10°	3568.2	3535.9	3514.3	3546.7	3528.7	3597.0	3632.9	3679.6	3762.3	3765.9	3722.8
12.5°	3715.6	3694.0	3650.9	3658.1	3719.2	3740.7	3762.3	3791.0	3844.9	3834.2	3873.7
15°	3884.5	3837.7	3812.6	3805.4	3819.8	3844.9	3841.3	3870.1	3898.8	3924.0	3913.2
17.5°	4006.6	3945.6	3952.7	3988.7	3985.1	3977.9	3931.2	3916.8	3931.2	3945.6	3938.4
20°	4132.4	4139.6	4085.7	4053.4	4039.0	3967.1	3931.2	3888.1	3844.9	3866.5	3898.8
22.5°	4290.5	4258.2	4179.1	4082.1	4010.2	3967.1	3855.7	3780.3	3780.3	3801.8	3791.0
25°	4470.2	4401.9	4265.4	4089.3	3999.5	3816.2	3737.1	3726.4	3697.6	3729.9	3744.3
27.5°	4610.3	4549.2	4362.4	4064.1	3816.2	3668.9	3622.1	3607.8	3654.5	3658.1	3715.6
30°	4667.8	4649.9	4376.8	3999.5	3629.3	3392.2	3363.4	3428.1	3478.4	3553.9	3557.5
32.5°	4743.3	4750.5	4398.3	3848.5	3385.0	3147.8	3104.7	3183.8	3327.5	3388.6	3435.3
35°	4869.1	4905.0	4380.4	3661.7	3126.3	2899.9	2892.7	2914.2	3054.4	3162.2	3223.3
37.5°	5088.3	5081.1	4376.8	3438.9	2921.4	2684.3	2626.8	2634.0	2727.4	2817.2	2806.4
40°	5382.9	5354.2	4366.0	3147.8	2655.5	2501.0	2404.0	2368.0	2360.9	2335.7	2342.9
42.5°	5785.4	5727.9	4362.4	2853.2	2414.8	2249.5	2181.2	2087.8	2019.5	1890.1	1897.3
45°	6345.9	6245.3	4269.0	2576.5	2177.6	2041.1	1936.8	1868.6	1721.2	1559.5	1559.5
47.5°	7211.9	6885.0	4272.6	2271.0	1947.6	1836.2	1764.4	1645.8	1487.7	1358.3	1343.9
50°	8487.6	7740.2	4150.4	2030.3	1760.8	1685.3	1609.8	1473.3	1322.4	1232.5	1243.3
52.5°	10133.4	9015.8	4146.8	1814.7	1613.4	1559.5	1476.9	1354.7	1243.3	1185.8	1164.3
55°	12095.4	10704.7	4276.1	1638.6	1462.5	1433.8	1397.8	1297.2	1189.4	1139.1	1135.5
57.5°	14104.1	12354.1	4484.6	1512.8	1333.2	1354.7	1329.6	1250.5	1164.3	1106.8	1099.6
60°	15890.0	13662.1	4064.1	1361.9	1218.2	1264.9	1300.8	1232.5	1185.8	1182.2	1157.1
62.5°	17237.5	14222.7	3090.3	1246.9	1157.1	1243.3	1340.3	1383.5	1361.9	1390.6	1394.2
65°	17729.8	13884.9	2127.3	1185.8	1110.4	1293.6	1509.2	1494.9	1369.1	1315.2	1343.9
67.5°	17039.9	12515.8	1577.5	1114.0	1078.0	1397.8	1606.2	1426.6	1236.1	1228.9	1207.4
70°	14653.9	10607.7	1286.4	1038.5	1024.1	1340.3	1563.1	1322.4	1164.3	1117.5	1096.0
72°	11675.0	8261.2	1128.3	984.6	937.9	1196.6	1462.5	1239.7	1103.2	1045.7	1020.5
72.5°	10658.0	7657.5	1106.8	959.4	919.9	1164.3	1412.2	1214.6	1088.8	1038.5	999.0
75°	5846.5	3920.4	973.8	880.4	776.2	1006.2	1308.0	1139.1	1027.7	955.8	948.7
77.5°	2174.0	1520.0	840.9	779.8	672.0	869.6	1189.4	1081.6	934.3	844.4	826.5
80°	833.7	801.3	686.3	657.6	564.2	761.8	1096.0	970.2	794.1	704.3	675.6
82.5°	506.7	467.1	521.0	513.9	431.2	693.5	1031.3	909.1	704.3	571.4	553.4
85°	276.7	276.7	362.9	348.6	301.8	553.4	779.8	603.7	445.6	366.5	373.7
87.5°	122.2	143.7	194.0	183.3	165.3	312.6	380.9	319.8	222.8	150.9	161.7
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)