

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: P480049

Luminaire Tested: **IFLD-M-SA4B-730-U-SL2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480049
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-730-U-SL2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens
Light Source: (64) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

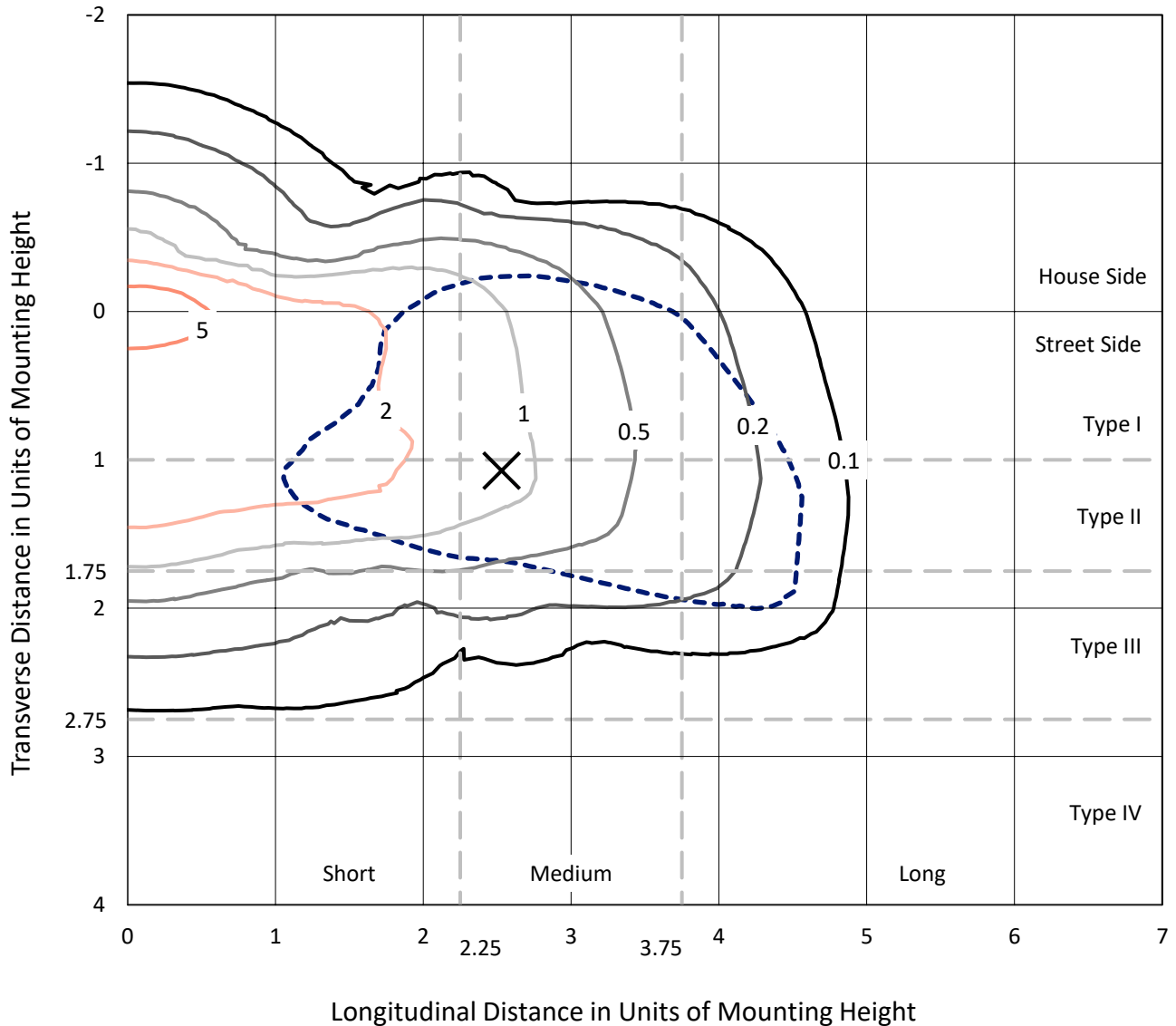
Lumens per Lamp: N/A
Luminaire Lumens: 20736.4 lumens
Efficiency: N/A
Efficacy: 124.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 166.1
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

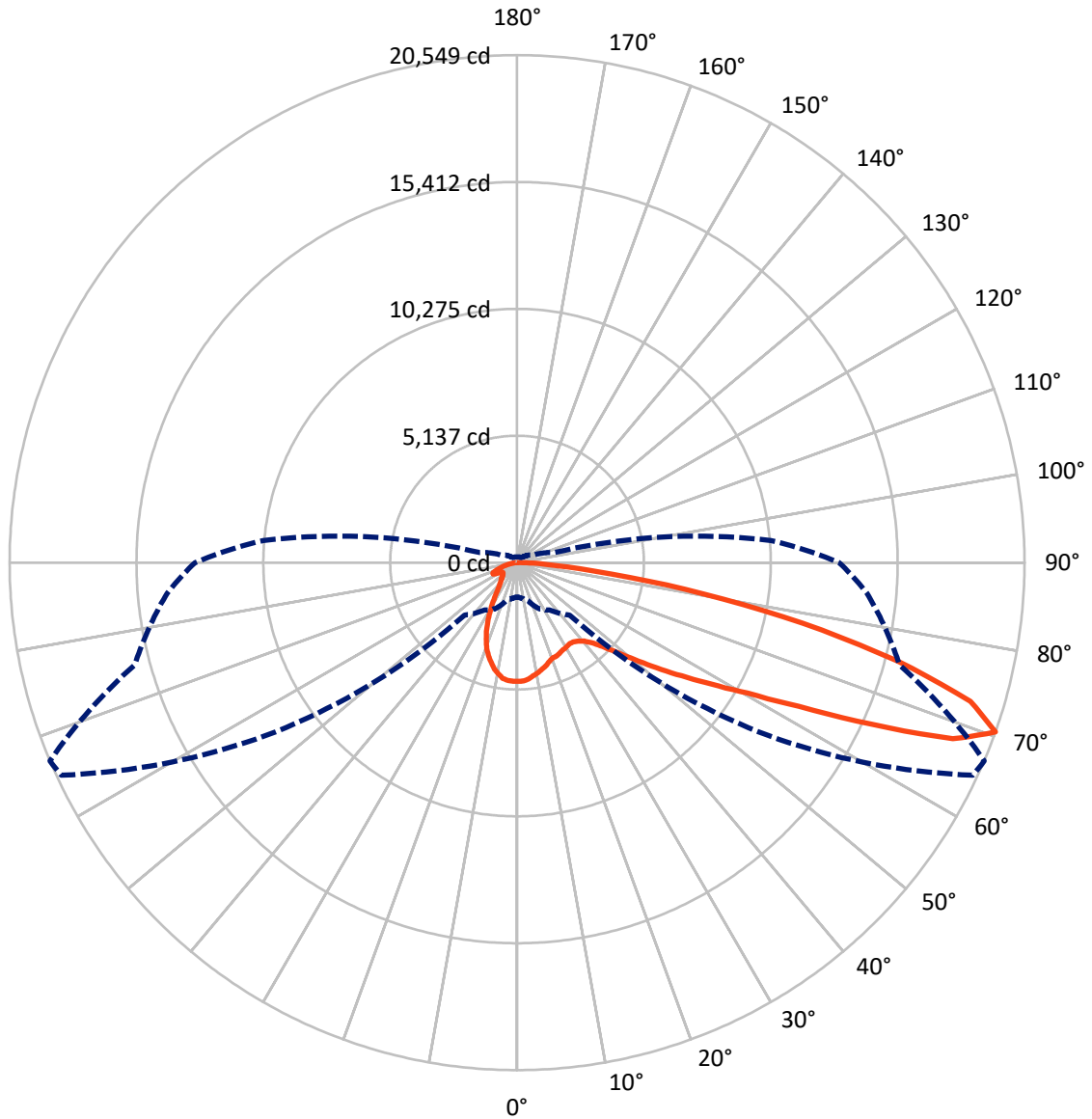
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 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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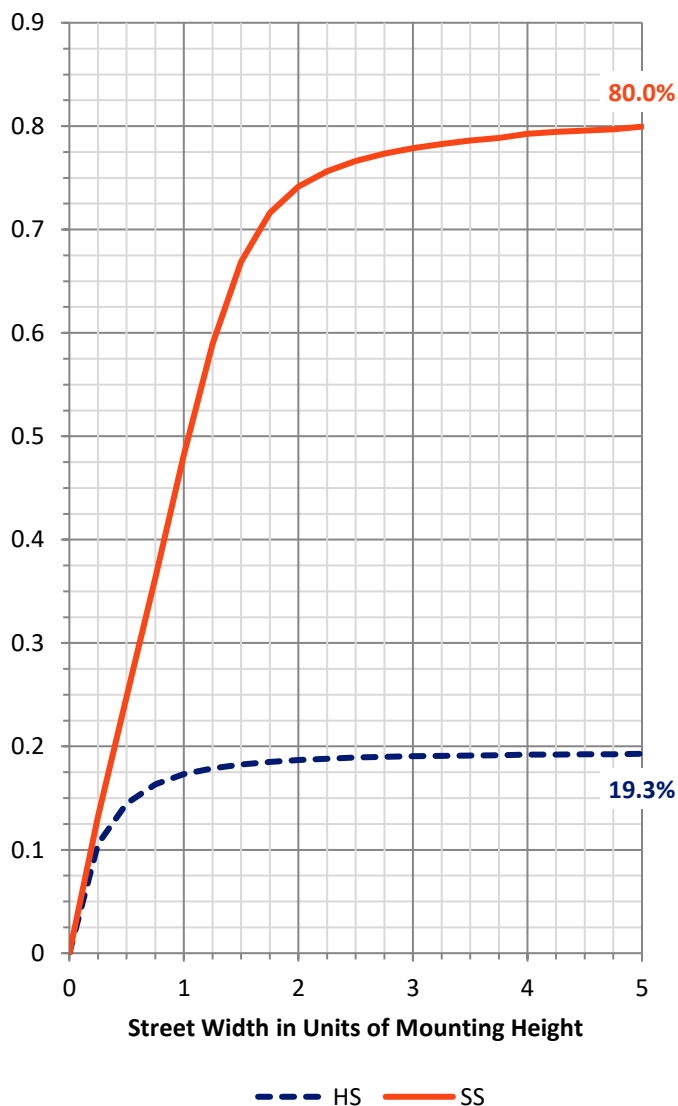
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4038.6	0.0	4038.6
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	16697.8	0.0	16697.8
	% Fixture	80.5	0.0	80.5
Total	Lumens	20736.4	0.0	20736.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	418.8	2.0
10°-20°	1003.1	4.8
20°-30°	1354.6	6.5
30°-40°	1812.6	8.7
40°-50°	2665.4	12.9
50°-60°	4154.7	20.0
60°-70°	5118.0	24.7
70°-80°	3616.3	17.4
80°-90°	592.7	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°	20736.4	100.0
0°-180°	20736.4	100.0

Coefficient of Utilization



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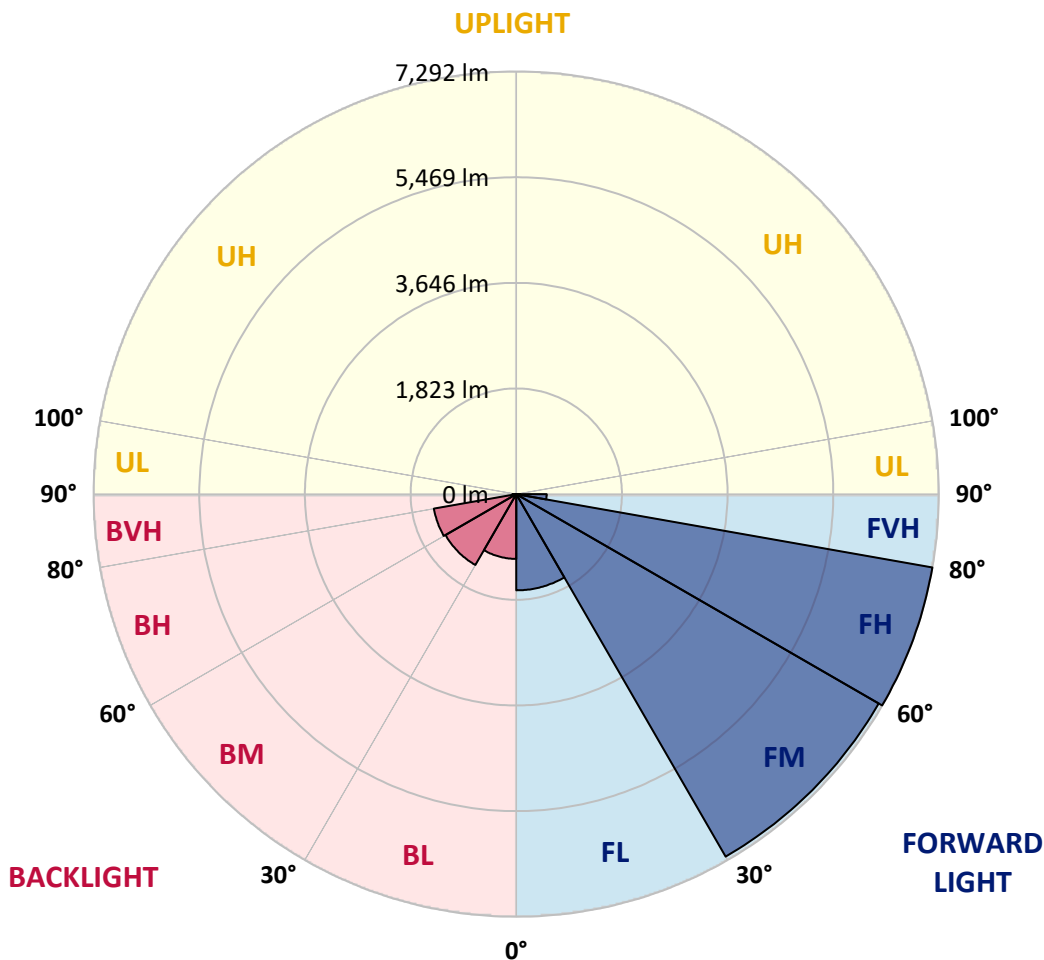
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1659.8	8.0			
FM (30°-60°)	7222.0	34.8			
FH (60°-80°)	7291.6	35.2			G3/7500
FVH (80°-90°)	524.3	2.5			G4/750
BL (0°-30°)	1116.8	5.4	B3/2500		
BM (30°-60°)	1410.8	6.8	B2/2500		
BH (60°-80°)	1442.6	7.0	B3/2500		G3/2500
BVH (80°-90°)	68.4	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-G4

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	4800.4	4800.4	4800.4	4800.4	4800.4	4800.4	4800.4	4800.4	4800.4	4800.4	4800.4
2.5°	4469.8	4520.3	4538.7	4566.2	4637.4	4690.2	4722.4	4759.1	4802.7	4839.4	4862.4
5°	4157.6	4185.2	4228.8	4258.6	4348.2	4490.5	4586.9	4743.0	4738.4	4795.8	4883.1
7.5°	3854.6	3882.1	3902.8	3962.5	4091.0	4219.6	4396.4	4648.9	4630.5	4763.7	4899.1
10°	3666.3	3645.7	3652.5	3753.6	3854.6	3999.2	4221.9	4479.0	4545.6	4752.2	4945.0
12.5°	3489.5	3466.6	3521.7	3586.0	3709.9	3840.8	4107.1	4339.0	4440.0	4710.9	4965.7
15°	3379.3	3363.3	3432.1	3459.7	3606.6	3762.7	3951.0	4233.4	4343.6	4660.4	4933.6
17.5°	3317.4	3331.1	3356.4	3416.1	3510.2	3643.4	3850.0	4162.2	4210.4	4598.4	4926.7
20°	3328.8	3344.9	3347.2	3372.5	3436.7	3540.0	3751.3	4086.4	4118.6	4586.9	4945.0
22.5°	3420.7	3397.7	3406.9	3390.8	3409.2	3489.5	3675.5	3985.4	4109.4	4490.5	4906.0
25°	3558.4	3526.3	3521.7	3466.6	3432.1	3455.1	3661.7	3960.2	4040.5	4460.6	4903.7
27.5°	3801.8	3753.6	3753.6	3670.9	3530.9	3494.1	3622.7	3918.8	3990.0	4433.1	4850.9
30°	4035.9	4035.9	4038.2	3921.1	3765.0	3583.7	3638.8	3902.8	3948.7	4350.4	4779.8
32.5°	4320.6	4313.7	4302.2	4244.8	4003.8	3732.9	3716.8	3882.1	3905.1	4322.9	4759.1
35°	4598.4	4580.0	4669.6	4619.0	4373.4	4024.4	3797.2	3891.3	3941.8	4281.6	4694.8
37.5°	4807.3	4818.8	5004.7	5036.9	4825.7	4355.0	4024.4	3983.1	4031.3	4341.3	4694.8
40°	5078.2	5124.1	5298.6	5406.5	5277.9	4791.2	4384.9	4136.9	4171.4	4474.4	4795.8
42.5°	5434.0	5473.1	5695.8	5835.8	5799.1	5346.8	4740.7	4458.3	4430.8	4697.1	4947.3
45°	5904.7	5911.6	6136.5	6329.4	6405.1	5927.6	5305.5	4864.7	4841.7	5080.5	5225.1
47.5°	6464.8	6457.9	6598.0	6804.6	7008.9	6620.9	5955.2	5482.3	5399.6	5629.2	5686.6
50°	7006.6	6976.8	7008.9	7272.9	7665.5	7488.7	6744.9	6237.6	6154.9	6281.2	6379.9
52.5°	7305.1	7341.8	7254.6	7603.5	8363.4	8514.9	7791.8	7139.8	7068.6	7130.6	7302.8
55°	7096.2	7171.9	7114.5	7445.1	8668.8	9766.1	9146.3	8184.3	8092.5	8069.6	8351.9
57.5°	6207.7	6345.5	6356.9	6880.4	8563.1	10734.9	11051.7	9417.2	9279.4	9045.3	9336.8
60°	4766.0	4903.7	5009.3	5629.2	7658.6	11313.5	13260.3	11171.1	10716.6	10110.5	10285.0
62.5°	3340.3	3434.4	3540.0	3921.1	5904.7	10973.7	15170.3	13641.3	12803.4	11233.1	11451.2
65°	2433.5	2507.0	2614.9	2839.8	3627.3	9079.7	16056.5	16575.3	15781.0	12661.1	12633.5
67.5°	1832.0	1877.9	2020.3	2380.7	2513.8	5608.5	15138.2	19674.6	19031.8	14247.4	13584.0
70°	1386.6	1425.7	1558.8	2052.4	2348.6	3007.4	11942.5	20365.6	20549.3	16026.6	14222.2
72.5°	955.0	998.7	1147.9	1710.3	2236.1	2385.3	7495.6	18501.4	19197.1	16759.0	13538.0
75°	585.4	615.3	702.5	1297.1	2220.0	2332.5	4125.5	15161.1	15898.1	15484.8	11843.8
77.5°	413.2	410.9	427.0	759.9	1923.8	2346.3	2543.7	11109.1	11825.4	11412.2	8037.4
80°	300.7	303.0	319.1	454.6	1306.3	2385.3	2004.2	7440.5	7654.0	5950.6	3170.4
82.5°	181.4	190.5	229.6	307.6	785.1	2153.4	1852.7	4134.6	3868.3	1910.1	872.4
85°	96.4	96.4	135.4	195.1	417.8	1607.0	1783.8	1967.5	1648.3	592.3	323.7
87.5°	23.0	23.0	39.0	78.1	167.6	769.1	1216.7	782.9	626.7	199.7	133.2
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°	4800.4	4800.4	4800.4	4800.4	4800.4	4800.4	4800.4	4800.4	4800.4	4800.4	4800.4
2.5°	4853.2	4825.7	4860.1	4791.2	4736.1	4738.4	4653.5	4648.9	4637.4	4577.7	4598.4
5°	4908.3	4885.4	4846.3	4770.6	4648.9	4527.2	4453.8	4359.6	4320.6	4299.9	4309.1
7.5°	4961.1	4919.8	4807.3	4701.7	4513.4	4283.9	4150.7	4024.4	3863.7	3845.4	3813.2
10°	4974.9	4887.7	4743.0	4518.0	4267.8	4013.0	3709.9	3475.8	3351.8	3255.4	3218.6
12.5°	4954.2	4917.5	4639.7	4350.4	3971.6	3572.2	3218.6	2888.1	2658.5	2539.1	2507.0
15°	4951.9	4887.7	4524.9	4095.6	3611.2	3090.1	2587.3	2190.1	1949.1	1850.4	1850.4
17.5°	4954.2	4800.4	4389.5	3838.5	3186.5	2481.7	1928.4	1602.4	1469.3	1455.5	1467.0
20°	4908.3	4736.1	4247.1	3535.5	2653.9	1864.1	1400.4	1267.3	1267.3	1285.6	1292.5
22.5°	4867.0	4639.7	4022.2	3161.2	2112.1	1349.9	1138.7	1099.7	1143.3	1175.4	1189.2
25°	4809.6	4559.4	3792.6	2773.3	1607.0	1088.2	989.5	998.7	1040.0	1097.4	1092.8
27.5°	4726.9	4419.3	3519.4	2323.3	1196.1	939.0	913.7	918.3	961.9	987.2	982.6
30°	4632.8	4277.0	3266.9	1875.6	948.1	860.9	858.6	870.1	877.0	890.8	888.5
32.5°	4513.4	4088.7	2998.2	1457.8	854.0	817.3	808.1	801.2	808.1	805.8	798.9
35°	4428.5	3987.7	2725.1	1111.1	801.2	778.3	771.4	759.9	750.7	736.9	734.6
37.5°	4405.5	3886.7	2438.1	906.8	759.9	748.4	725.5	704.8	693.3	686.4	681.8
40°	4391.8	3820.1	2158.0	796.6	725.5	714.0	686.4	658.9	647.4	640.5	642.8
42.5°	4440.0	3783.4	1873.3	741.5	695.6	675.0	645.1	613.0	610.7	606.1	613.0
45°	4609.9	3829.3	1609.3	702.5	665.8	631.3	592.3	576.2	573.9	569.3	573.9
47.5°	4995.6	3944.1	1384.3	677.2	633.6	603.8	562.5	539.5	537.2	534.9	534.9
50°	5528.2	4297.6	1196.1	647.4	613.0	571.6	532.6	507.4	502.8	493.6	493.6
52.5°	6363.8	4892.2	1083.6	631.3	576.2	541.8	500.5	472.9	461.4	452.3	452.3
55°	7305.1	5629.2	1062.9	603.8	537.2	505.1	468.3	440.8	429.3	417.8	413.2
57.5°	8377.2	6604.9	1209.9	585.4	509.7	468.3	427.0	401.8	392.6	381.1	376.5
60°	9375.8	7578.3	1666.7	557.9	484.4	433.9	392.6	367.3	355.8	344.4	344.4
62.5°	10530.6	8783.5	2440.4	557.9	461.4	397.2	355.8	337.5	330.6	319.1	316.8
65°	11896.6	10030.1	3005.1	592.3	454.6	365.0	321.4	303.0	296.2	289.3	287.0
67.5°	12936.6	10746.4	2585.0	684.1	484.4	337.5	287.0	275.5	270.9	264.0	259.4
70°	13046.7	10310.2	1558.8	739.2	514.2	309.9	257.1	245.6	245.6	238.8	234.2
72.5°	12057.3	9148.6	1049.2	658.9	466.0	277.8	227.3	218.1	213.5	208.9	206.6
75°	10089.8	7759.6	828.8	525.7	358.1	229.6	197.4	188.3	181.4	179.1	174.5
77.5°	6777.1	5043.8	613.0	410.9	264.0	186.0	165.3	156.1	149.2	146.9	140.0
80°	2603.4	1921.5	394.9	298.4	186.0	146.9	130.9	121.7	117.1	110.2	105.6
82.5°	766.8	622.1	220.4	183.7	119.4	101.0	94.1	87.2	80.4	73.5	71.2
85°	316.8	284.7	135.4	96.4	73.5	59.7	55.1	48.2	41.3	36.7	32.1
87.5°	146.9	121.7	62.0	36.7	25.3	13.8	6.9	2.3	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)