

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: P479313

Luminaire Tested: **IFLD-L-SA7B-735-U-5MQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479313
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-735-U-5MQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens
Light Source: (112) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

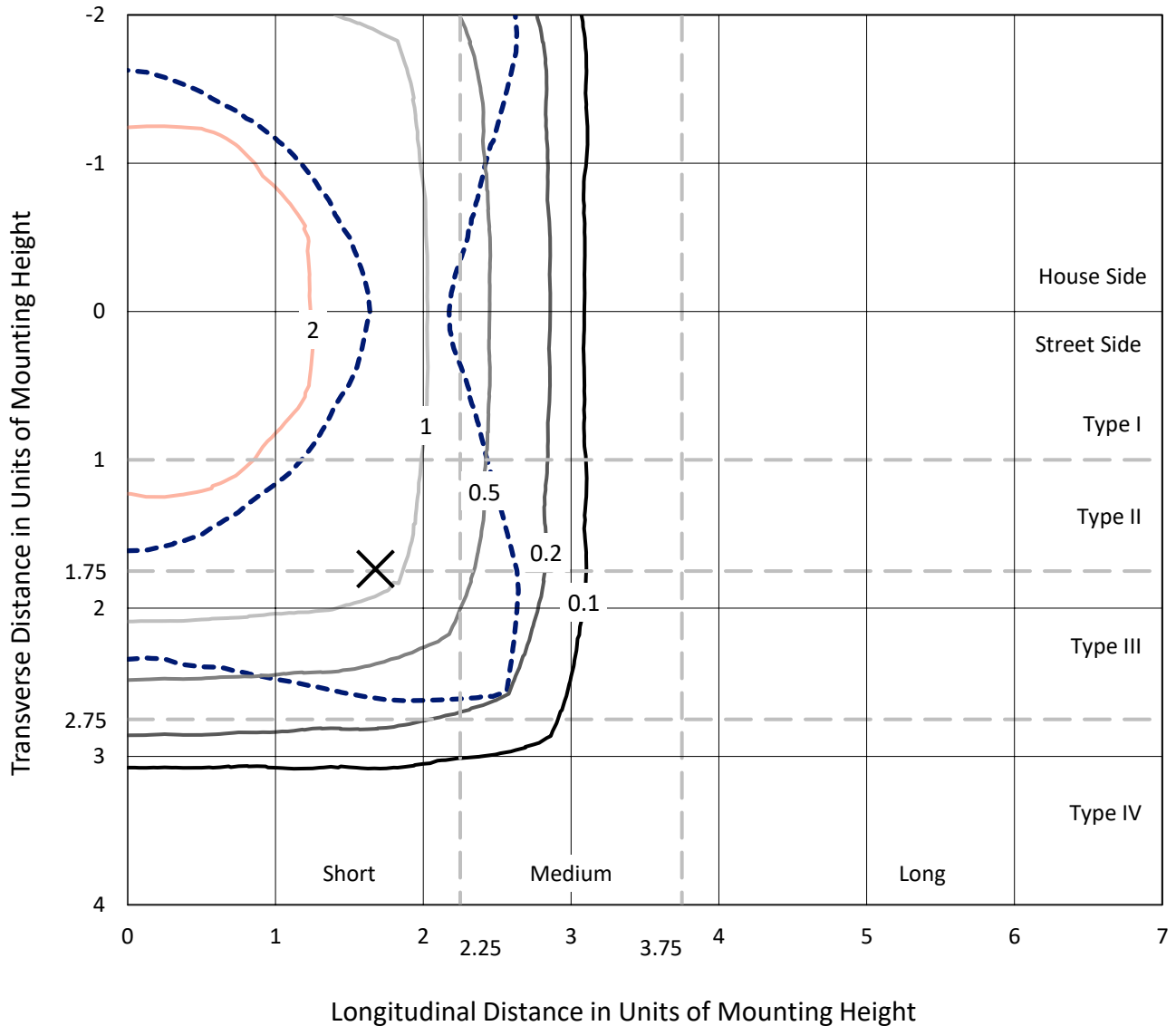
Lumens per Lamp: N/A
Luminaire Lumens: 35454.7 lumens
Efficiency: N/A
Efficacy: 126.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

Input Watts (W): 281
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

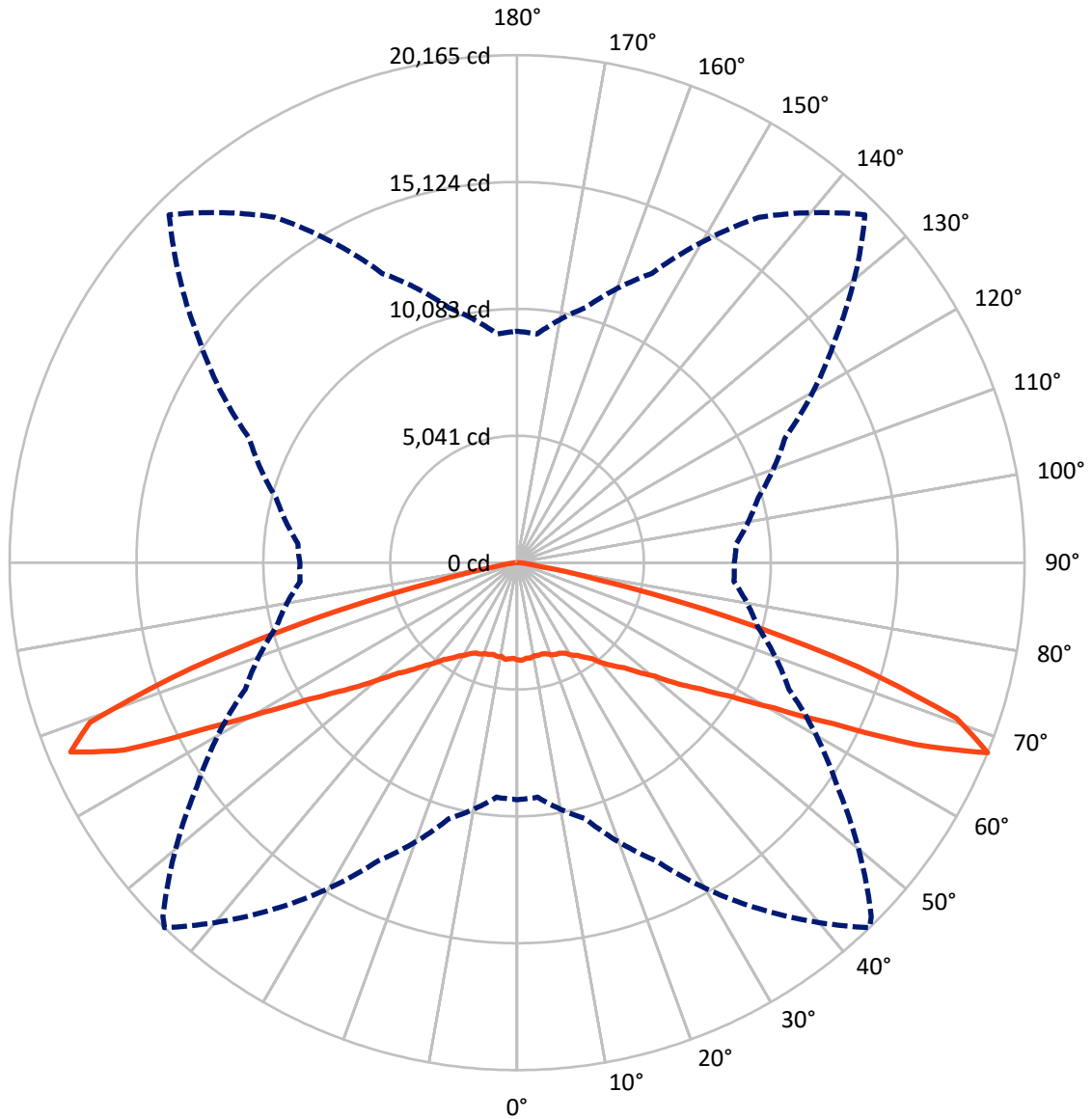
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.3 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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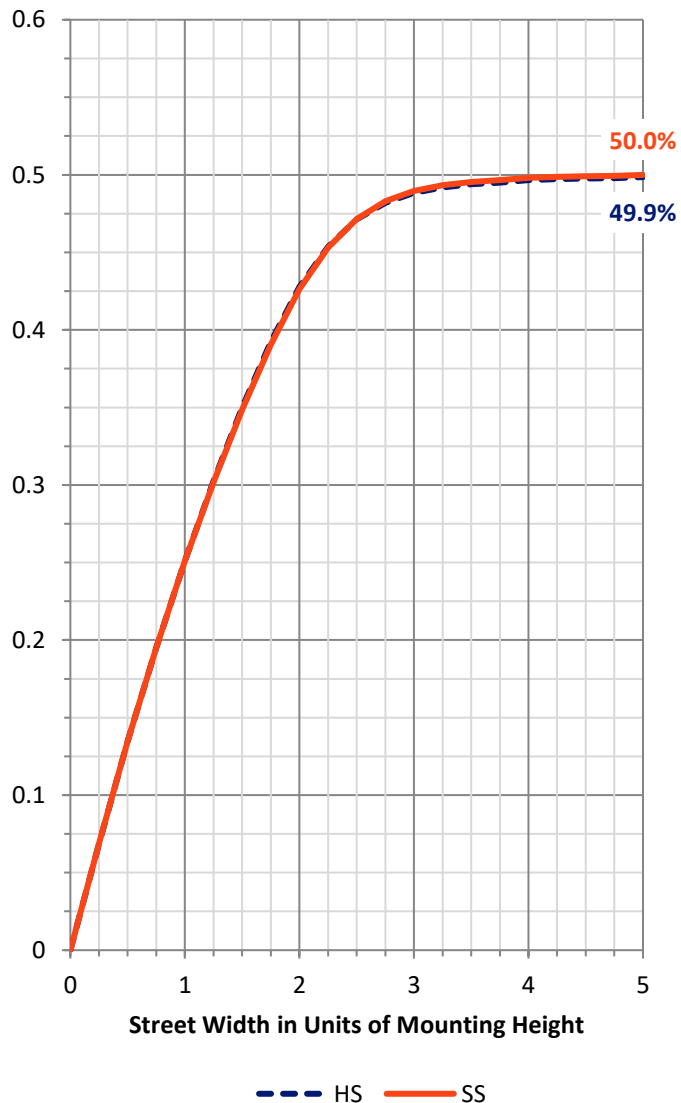
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17681.9	0.0	17681.9
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	17772.7	0.0	17772.7
	% Fixture	50.1	0.0	50.1
Total	Lumens	35454.7	0.0	35454.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	366.5	1.0
10°-20°	1070.7	3.0
20°-30°	1820.7	5.1
30°-40°	2886.8	8.1
40°-50°	4707.3	13.3
50°-60°	8039.4	22.7
60°-70°	12227.8	34.5
70°-80°	4121.5	11.6
80°-90°	214.0	0.6
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°	35454.7	100.0
0°-180°	35454.7	100.0

Coefficient of Utilization



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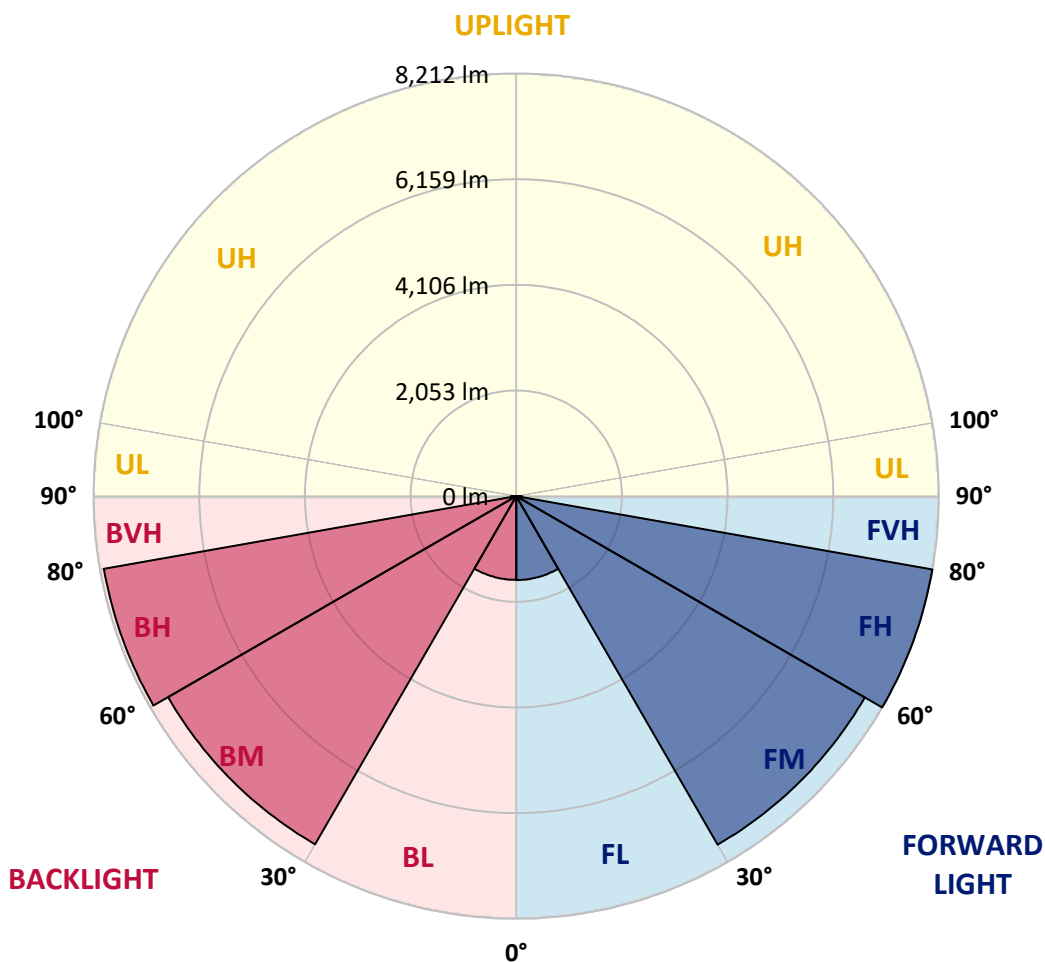
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1630.6	4.6			
FM (30°-60°)	7821.0	22.1			
FH (60°-80°)	8211.7	23.2			G4/12000
FVH (80°-90°)	109.5	0.3			G2/225
BL (0°-30°)	1627.3	4.6	B3/2500		
BM (30°-60°)	7812.5	22.0	B4/8500		
BH (60°-80°)	8137.6	23.0	B5		G4/12000
BVH (80°-90°)	104.5	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	3872.8	3872.8	3872.8	3872.8	3872.8	3872.8	3872.8	3872.8	3872.8	3872.8	3872.8
2.5°	3783.8	3828.3	3860.7	3856.6	3868.8	3880.9	3864.7	3889.0	3872.8	3901.1	3917.3
5°	3856.6	3844.5	3848.5	3824.2	3880.9	3816.2	3816.2	3848.5	3889.0	3840.4	3868.8
7.5°	3812.1	3804.0	3783.8	3820.2	3832.3	3832.3	3864.7	3804.0	3872.8	3889.0	3893.0
10°	3763.5	3719.0	3779.7	3816.2	3824.2	3759.5	3787.8	3804.0	3783.8	3804.0	3816.2
12.5°	3723.1	3747.4	3747.4	3747.4	3735.2	3779.7	3808.1	3804.0	3763.5	3800.0	3735.2
15°	3719.0	3706.9	3743.3	3775.7	3755.5	3763.5	3775.7	3812.1	3735.2	3751.4	3751.4
17.5°	3715.0	3731.2	3743.3	3739.3	3808.1	3808.1	3795.9	3771.6	3832.3	3800.0	3755.5
20°	3731.2	3719.0	3751.4	3763.5	3812.1	3909.2	3872.8	3852.6	3820.2	3779.7	3779.7
22.5°	3751.4	3743.3	3787.8	3840.4	3933.5	3957.8	3953.7	3929.5	3872.8	3824.2	3816.2
25°	3824.2	3751.4	3800.0	3901.1	3933.5	3982.1	4014.4	3982.1	3905.2	3917.3	3844.5
27.5°	3933.5	3921.4	3986.1	4054.9	4026.6	4071.1	4042.8	4067.1	4071.1	4010.4	3937.6
30°	4063.0	4026.6	4067.1	4200.6	4212.7	4261.3	4212.7	4148.0	4168.2	4115.6	4079.2
32.5°	4249.2	4237.0	4313.9	4402.9	4419.1	4394.9	4370.6	4407.0	4322.0	4281.5	4216.8
35°	4370.6	4423.2	4516.3	4585.1	4637.7	4613.4	4625.5	4589.1	4609.3	4524.3	4496.0
37.5°	4730.7	4710.5	4730.7	4848.1	4860.2	4848.1	4860.2	4900.7	4872.4	4799.5	4726.7
40°	5070.7	5038.3	5086.9	5220.4	5212.3	5252.8	5171.8	5216.4	5216.4	5078.8	5050.4
42.5°	5325.6	5434.9	5491.5	5600.8	5641.3	5604.9	5588.7	5596.8	5685.8	5523.9	5463.2
45°	5851.7	5847.7	6017.6	6078.3	5965.0	5956.9	5924.6	6021.7	6082.4	5989.3	5965.0
47.5°	6422.3	6450.6	6547.8	6572.0	6640.8	6515.4	6515.4	6527.5	6742.0	6523.5	6410.2
50°	6936.3	6972.7	7166.9	7357.1	7227.6	7094.1	7146.7	7211.4	7328.8	7122.4	7025.3
52.5°	7559.5	7757.8	7887.3	7988.4	8081.5	7988.4	7867.0	7939.9	8170.5	7895.4	7774.0
55°	8457.9	8615.7	8737.1	8923.2	9000.1	8874.7	8862.5	8854.5	8984.0	8692.6	8526.7
57.5°	9461.5	9396.7	9591.0	9878.3	10157.5	10036.1	9999.7	10007.8	10040.2	9627.4	9501.9
60°	10707.9	10780.7	11011.4	11262.3	11557.7	11727.7	11488.9	11351.3	11379.7	10817.2	10622.9
62.5°	11420.1	11582.0	12104.1	12966.0	13560.9	14091.0	14127.5	13233.1	12634.2	11541.5	10716.0
65°	11076.2	11051.9	12035.3	13629.7	15883.8	17425.6	17195.0	15025.9	12933.7	11197.6	10088.7
67.5°	9421.0	9356.3	10546.0	13075.3	16798.4	20165.3	19902.3	15531.7	11921.9	9906.6	8652.1
70°	6070.2	6054.0	7345.0	9967.3	14997.5	18514.2	18611.3	14107.2	9704.3	7256.0	6013.6
72.5°	2205.5	2339.1	3087.7	5358.0	10185.9	14163.9	14224.6	10444.9	5580.6	3354.8	2472.6
75°	813.4	837.7	975.3	1740.1	4641.7	8696.6	8923.2	5066.6	1982.9	1092.6	890.3
77.5°	469.4	473.5	522.0	647.5	1375.9	3395.3	3532.9	1537.8	768.9	582.7	538.2
80°	319.7	315.7	368.3	420.9	550.4	963.1	1023.8	643.4	485.6	404.7	339.9
82.5°	186.2	198.3	271.1	299.5	335.9	424.9	433.0	400.6	364.2	299.5	222.6
85°	113.3	93.1	149.7	165.9	194.2	190.2	190.2	218.5	234.7	210.4	125.5
87.5°	28.3	28.3	36.4	40.5	52.6	40.5	44.5	85.0	113.3	105.2	64.7
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°	3872.8	3872.8	3872.8	3872.8	3872.8	3872.8	3872.8	3872.8	3872.8	3872.8	3872.8
2.5°	3880.9	3868.8	3876.9	3921.4	3893.0	3808.1	3828.3	3872.8	3836.4	3816.2	3812.1
5°	3864.7	3889.0	3860.7	3868.8	3897.1	3828.3	3840.4	3897.1	3872.8	3880.9	3836.4
7.5°	3868.8	3880.9	3856.6	3820.2	3820.2	3876.9	3844.5	3852.6	3816.2	3876.9	3795.9
10°	3844.5	3812.1	3783.8	3804.0	3795.9	3779.7	3767.6	3791.9	3755.5	3808.1	3751.4
12.5°	3771.6	3779.7	3771.6	3763.5	3779.7	3820.2	3755.5	3763.5	3706.9	3715.0	3743.3
15°	3743.3	3767.6	3759.5	3804.0	3824.2	3763.5	3812.1	3763.5	3719.0	3694.8	3739.3
17.5°	3755.5	3791.9	3779.7	3812.1	3775.7	3820.2	3828.3	3808.1	3755.5	3735.2	3755.5
20°	3767.6	3755.5	3771.6	3828.3	3880.9	3836.4	3836.4	3824.2	3775.7	3747.4	3747.4
22.5°	3795.9	3775.7	3800.0	3844.5	3860.7	3929.5	3868.8	3840.4	3759.5	3686.7	3755.5
25°	3852.6	3864.7	3880.9	3864.7	3953.7	3945.7	3937.6	3917.3	3791.9	3795.9	3783.8
27.5°	3961.8	3893.0	3913.3	4010.4	4022.5	4054.9	4014.4	4050.9	3917.3	3921.4	3840.4
30°	4095.4	4022.5	4087.3	4172.3	4168.2	4228.9	4208.7	4216.8	4123.7	4071.1	3961.8
32.5°	4241.1	4233.0	4273.4	4326.1	4346.3	4378.7	4374.6	4374.6	4318.0	4180.4	4200.6
35°	4402.9	4459.6	4508.2	4564.8	4572.9	4613.4	4556.7	4564.8	4508.2	4407.0	4439.4
37.5°	4722.6	4718.6	4771.2	4840.0	4848.1	4815.7	4860.2	4840.0	4763.1	4694.3	4641.7
40°	5095.0	5014.0	5062.6	5224.5	5236.6	5179.9	5175.9	5171.8	5115.2	4965.5	4933.1
42.5°	5418.7	5523.9	5515.8	5568.4	5532.0	5503.7	5604.9	5548.2	5503.7	5345.9	5317.5
45°	5835.5	5867.9	5973.1	6143.1	5969.1	5969.1	6037.9	5993.3	5969.1	5851.7	5742.4
47.5°	6353.5	6381.8	6592.3	6604.4	6491.1	6414.2	6628.7	6636.8	6535.6	6446.6	6313.0
50°	6960.5	6972.7	7162.9	7357.1	7231.7	7086.0	7304.5	7389.5	7162.9	7041.5	6875.6
52.5°	7628.3	7591.8	7749.7	8113.9	7992.5	7948.0	8182.7	8202.9	7895.4	7705.2	7749.7
55°	8397.2	8348.6	8777.6	9024.4	8947.5	8866.6	8971.8	9020.4	8773.5	8461.9	8571.2
57.5°	9392.7	9417.0	9631.4	9874.3	9999.7	10019.9	10068.5	10019.9	9769.0	9453.4	9352.2
60°	10388.2	10461.0	10877.9	11335.2	11375.6	11731.7	11667.0	11424.2	11068.1	10618.9	10639.1
62.5°	10756.5	10695.8	11367.5	12484.5	13435.5	14087.0	13799.7	12937.7	12112.1	11294.7	11355.4
65°	10015.9	10165.6	11080.2	12828.4	14892.3	17470.1	15940.4	13556.9	11889.6	10833.3	10716.0
67.5°	8631.9	8745.2	9906.6	11752.0	15414.4	19550.2	16749.8	12682.7	10485.3	9117.5	9190.3
70°	6013.6	6070.2	7207.4	9627.4	13977.7	18449.5	15110.8	9740.7	7239.8	5770.8	5851.7
72.5°	2420.0	2557.6	3306.3	5799.1	10319.4	14018.2	10173.7	5111.1	3002.7	2233.8	2027.5
75°	894.3	898.4	1056.2	1995.1	4900.7	8809.9	4589.1	1643.0	959.1	785.1	748.7
77.5°	518.0	513.9	550.4	720.3	1420.4	3439.8	1303.1	643.4	522.0	469.4	449.2
80°	323.7	319.7	376.4	477.5	623.2	942.9	550.4	400.6	352.1	303.5	303.5
82.5°	206.4	210.4	295.4	352.1	380.4	416.8	319.7	283.3	263.0	174.0	170.0
85°	133.5	121.4	206.4	234.7	210.4	186.2	178.1	149.7	137.6	85.0	93.1
87.5°	60.7	64.7	105.2	117.4	76.9	44.5	44.5	32.4	32.4	20.2	20.2
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)