

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: P479279

Luminaire Tested: **IFLD-L-SA8B-730-U-5MQ**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P479279
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-730-U-5MQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ
distribution lens
Light Source: (128) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

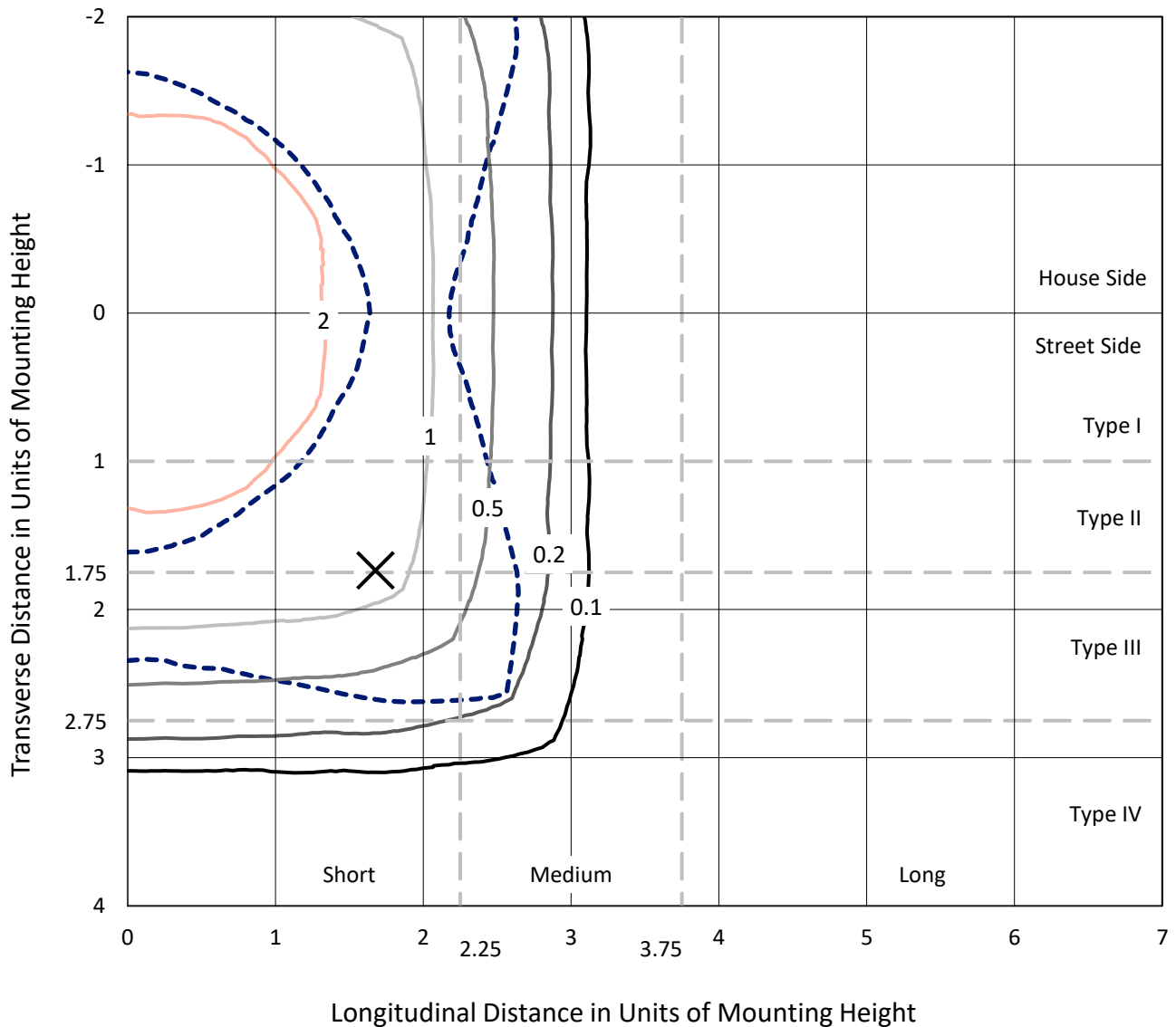
Lumens per Lamp: N/A
Luminaire Lumens: 37408.9 lumens
Efficiency: N/A
Efficacy: 116.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

Input Watts (W): 320
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

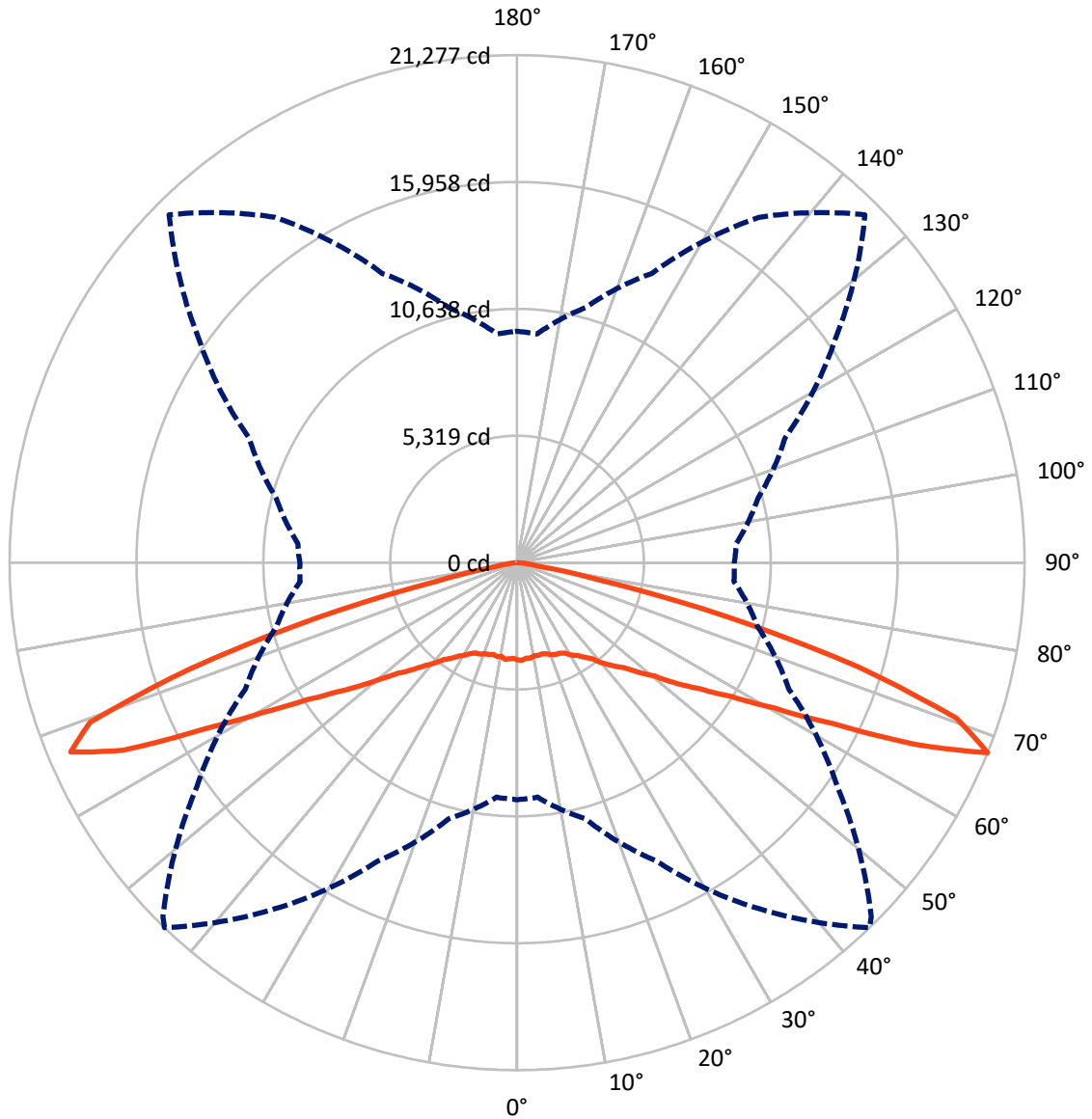
✕ Max cd
 - - - 1/2 Max cd



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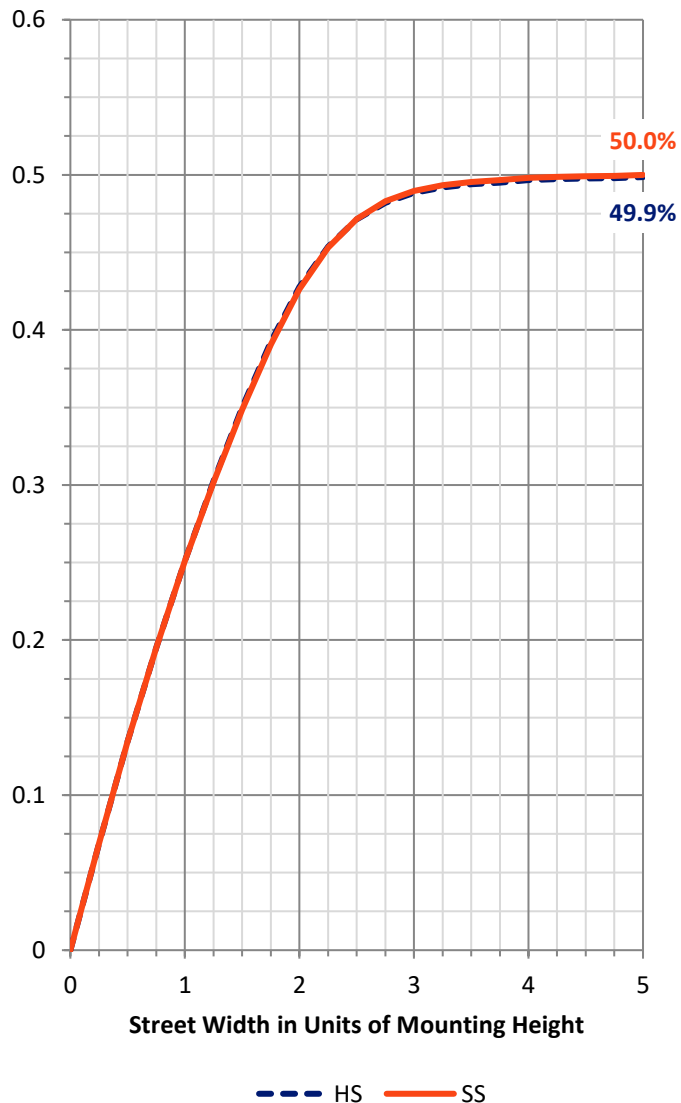
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18656.6	0.0	18656.6
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	18752.4	0.0	18752.4
	% Fixture	50.1	0.0	50.1
Total	Lumens	37408.9	0.0	37408.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	386.7	1.0
10°-20°	1129.7	3.0
20°-30°	1921.1	5.1
30°-40°	3046.0	8.1
40°-50°	4966.7	13.3
50°-60°	8482.5	22.7
60°-70°	12901.8	34.5
70°-80°	4348.7	11.6
80°-90°	225.8	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°	37408.9	100.0
0°-180°	37408.9	100.0

Coefficient of Utilization



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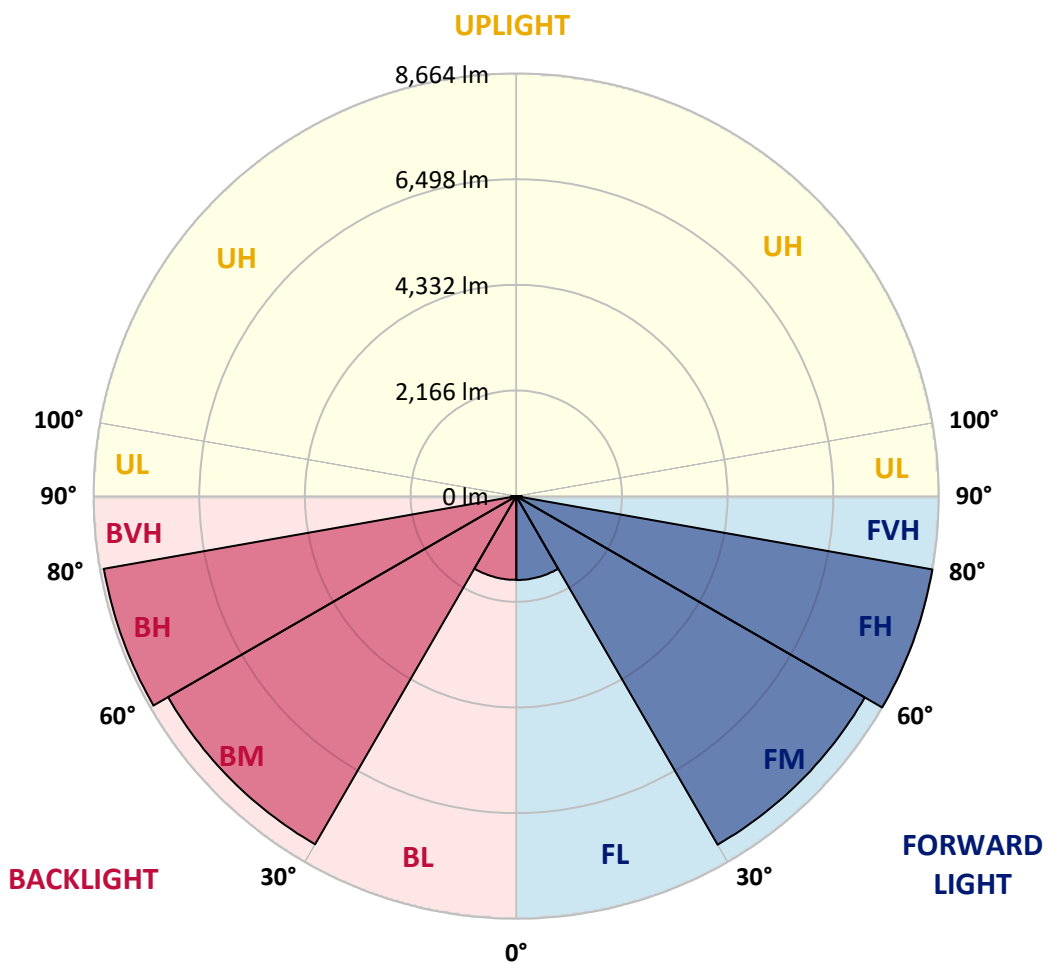
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1720.5	4.6			
FM (30°-60°)	8252.0	22.1			
FH (60°-80°)	8664.3	23.2			G4/12000
FVH (80°-90°)	115.5	0.3			G2/225
BL (0°-30°)	1717.0	4.6	B3/2500		
BM (30°-60°)	8243.1	22.0	B4/8500		
BH (60°-80°)	8586.2	23.0	B5		G4/12000
BVH (80°-90°)	110.3	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°	4086.3	4086.3	4086.3	4086.3	4086.3	4086.3	4086.3	4086.3	4086.3	4086.3	4086.3
2.5°	3992.3	4039.3	4073.5	4069.2	4082.0	4094.8	4077.7	4103.4	4086.3	4116.2	4133.2
5°	4069.2	4056.4	4060.7	4035.0	4094.8	4026.5	4026.5	4060.7	4103.4	4052.1	4082.0
7.5°	4022.2	4013.7	3992.3	4030.8	4043.6	4043.6	4077.7	4013.7	4086.3	4103.4	4107.6
10°	3971.0	3924.0	3988.1	4026.5	4035.0	3966.7	3996.6	4013.7	3992.3	4013.7	4026.5
12.5°	3928.3	3953.9	3953.9	3953.9	3941.1	3988.1	4018.0	4013.7	3971.0	4009.4	3941.1
15°	3924.0	3911.2	3949.6	3983.8	3962.5	3971.0	3983.8	4022.2	3941.1	3958.2	3958.2
17.5°	3919.8	3936.8	3949.6	3945.4	4018.0	4018.0	4005.2	3979.5	4043.6	4009.4	3962.5
20°	3936.8	3924.0	3958.2	3971.0	4022.2	4124.7	4086.3	4064.9	4030.8	3988.1	3988.1
22.5°	3958.2	3949.6	3996.6	4052.1	4150.3	4175.9	4171.7	4146.1	4086.3	4035.0	4026.5
25°	4035.0	3958.2	4009.4	4116.2	4150.3	4201.6	4235.7	4201.6	4120.4	4133.2	4056.4
27.5°	4150.3	4137.5	4205.8	4278.4	4248.5	4295.5	4265.6	4291.2	4295.5	4231.5	4154.6
30°	4287.0	4248.5	4291.2	4432.1	4444.9	4496.2	4444.9	4376.6	4398.0	4342.5	4304.0
32.5°	4483.4	4470.6	4551.7	4645.6	4662.7	4637.1	4611.5	4649.9	4560.2	4517.5	4449.2
35°	4611.5	4667.0	4765.2	4837.8	4893.3	4867.7	4880.5	4842.0	4863.4	4773.7	4743.8
37.5°	4991.5	4970.1	4991.5	5115.3	5128.1	5115.3	5128.1	5170.8	5140.9	5064.1	4987.2
40°	5350.2	5316.0	5367.2	5508.1	5499.6	5542.3	5456.9	5503.9	5503.9	5358.7	5328.8
42.5°	5619.2	5734.5	5794.2	5909.5	5952.2	5913.8	5896.7	5905.2	5999.2	5828.4	5764.3
45°	6174.3	6170.0	6349.3	6413.4	6293.8	6285.3	6251.1	6353.6	6417.6	6319.4	6293.8
47.5°	6776.3	6806.2	6908.7	6934.3	7006.9	6874.5	6874.5	6887.3	7113.6	6883.1	6763.5
50°	7318.6	7357.0	7562.0	7762.6	7626.0	7485.1	7540.6	7608.9	7732.8	7515.0	7412.5
52.5°	7976.1	8185.4	8322.0	8428.7	8527.0	8428.7	8300.7	8377.5	8620.9	8330.5	8202.4
55°	8924.1	9090.6	9218.7	9415.1	9496.2	9363.9	9351.0	9342.5	9479.1	9171.7	8996.6
57.5°	9983.0	9914.7	10119.6	10422.8	10717.4	10589.3	10550.9	10559.4	10593.6	10158.1	10025.7
60°	11298.1	11375.0	11618.4	11883.1	12194.8	12374.1	12122.2	11977.0	12006.9	11413.4	11208.4
62.5°	12049.6	12220.4	12771.2	13680.7	14308.4	14867.7	14906.2	13962.5	13330.6	12177.7	11306.7
65°	11686.7	11661.1	12698.6	14381.0	16759.3	18386.1	18142.7	15854.1	13646.5	11814.8	10644.8
67.5°	9940.3	9872.0	11127.3	13796.0	17724.3	21276.8	20999.3	16387.8	12579.1	10452.7	9129.0
70°	6404.8	6387.7	7749.8	10516.7	15824.2	19534.7	19637.2	14884.8	10239.2	7655.9	6345.0
72.5°	2327.1	2468.0	3257.9	5653.3	10747.3	14944.6	15008.6	11020.6	5888.2	3539.7	2608.9
75°	858.2	883.9	1029.0	1836.0	4897.6	9176.0	9415.1	5345.9	2092.2	1152.9	939.4
77.5°	495.3	499.6	550.8	683.2	1451.8	3582.4	3727.6	1622.6	811.3	614.9	567.9
80°	337.3	333.1	388.6	444.1	580.7	1016.2	1080.3	678.9	512.4	427.0	358.7
82.5°	196.4	209.2	286.1	316.0	354.4	448.3	456.9	422.7	384.3	316.0	234.8
85°	119.6	98.2	158.0	175.1	205.0	200.7	200.7	230.6	247.7	222.0	132.4
87.5°	29.9	29.9	38.4	42.7	55.5	42.7	47.0	89.7	119.6	111.0	68.3
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°	4086.3	4086.3	4086.3	4086.3	4086.3	4086.3	4086.3	4086.3	4086.3	4086.3	4086.3
2.5°	4094.8	4082.0	4090.5	4137.5	4107.6	4018.0	4039.3	4086.3	4047.8	4026.5	4022.2
5°	4077.7	4103.4	4073.5	4082.0	4111.9	4039.3	4052.1	4111.9	4086.3	4094.8	4047.8
7.5°	4082.0	4094.8	4069.2	4030.8	4030.8	4090.5	4056.4	4064.9	4026.5	4090.5	4005.2
10°	4056.4	4022.2	3992.3	4013.7	4005.2	3988.1	3975.3	4000.9	3962.5	4018.0	3958.2
12.5°	3979.5	3988.1	3979.5	3971.0	3988.1	4030.8	3962.5	3971.0	3911.2	3919.8	3949.6
15°	3949.6	3975.3	3966.7	4013.7	4035.0	3971.0	4022.2	3971.0	3924.0	3898.4	3945.4
17.5°	3962.5	4000.9	3988.1	4022.2	3983.8	4030.8	4039.3	4018.0	3962.5	3941.1	3962.5
20°	3975.3	3962.5	3979.5	4039.3	4094.8	4047.8	4047.8	4035.0	3983.8	3953.9	3953.9
22.5°	4005.2	3983.8	4009.4	4056.4	4073.5	4146.1	4082.0	4052.1	3966.7	3889.9	3962.5
25°	4064.9	4077.7	4094.8	4077.7	4171.7	4163.1	4154.6	4133.2	4000.9	4005.2	3992.3
27.5°	4180.2	4107.6	4129.0	4231.5	4244.3	4278.4	4235.7	4274.2	4133.2	4137.5	4052.1
30°	4321.1	4244.3	4312.6	4402.2	4398.0	4462.0	4440.7	4449.2	4351.0	4295.5	4180.2
32.5°	4474.8	4466.3	4509.0	4564.5	4585.9	4620.0	4615.7	4615.7	4556.0	4410.8	4432.1
35°	4645.6	4705.4	4756.7	4816.4	4825.0	4867.7	4807.9	4816.4	4756.7	4649.9	4684.1
37.5°	4983.0	4978.7	5034.2	5106.8	5115.3	5081.2	5128.1	5106.8	5025.7	4953.1	4897.6
40°	5375.8	5290.4	5341.6	5512.4	5525.2	5465.5	5461.2	5456.9	5397.1	5239.1	5205.0
42.5°	5717.4	5828.4	5819.9	5875.4	5836.9	5807.0	5913.8	5854.0	5807.0	5640.5	5610.6
45°	6157.2	6191.3	6302.3	6481.7	6298.1	6298.1	6370.7	6323.7	6298.1	6174.3	6059.0
47.5°	6703.7	6733.6	6955.6	6968.4	6848.9	6767.8	6994.1	7002.6	6895.9	6801.9	6661.0
50°	7344.2	7357.0	7557.7	7762.6	7630.3	7476.6	7707.1	7796.8	7557.7	7429.6	7254.5
52.5°	8048.7	8010.3	8176.8	8561.1	8433.0	8386.1	8633.7	8655.1	8330.5	8129.9	8176.8
55°	8860.0	8808.8	9261.4	9521.8	9440.7	9355.3	9466.3	9517.6	9257.1	8928.3	9043.6
57.5°	9910.4	9936.0	10162.3	10418.5	10550.9	10572.2	10623.5	10572.2	10307.5	9974.4	9867.7
60°	10960.8	11037.6	11477.4	11959.9	12002.6	12378.4	12310.1	12053.9	11678.1	11204.2	11225.5
62.5°	11349.3	11285.3	11994.1	13172.6	14176.0	14863.5	14560.3	13650.8	12779.8	11917.2	11981.3
65°	10568.0	10725.9	11690.9	13535.5	15713.2	18433.1	16819.1	14304.1	12544.9	11430.5	11306.7
67.5°	9107.7	9227.2	10452.7	12399.7	16264.0	20627.8	17673.0	13381.8	11063.3	9620.0	9696.9
70°	6345.0	6404.8	7604.7	10158.1	14748.2	19466.4	15943.7	10277.6	7638.8	6088.9	6174.3
72.5°	2553.4	2698.6	3488.5	6118.7	10888.2	14790.9	10734.5	5392.9	3168.3	2357.0	2139.2
75°	943.6	947.9	1114.4	2105.1	5170.8	9295.5	4842.0	1733.6	1012.0	828.4	789.9
77.5°	546.5	542.3	580.7	760.0	1498.7	3629.4	1374.9	678.9	550.8	495.3	474.0
80°	341.6	337.3	397.1	503.8	657.6	994.9	580.7	422.7	371.5	320.2	320.2
82.5°	217.8	222.0	311.7	371.5	401.4	439.8	337.3	298.9	277.5	183.6	179.3
85°	140.9	128.1	217.8	247.7	222.0	196.4	187.9	158.0	145.2	89.7	98.2
87.5°	64.0	68.3	111.0	123.8	81.1	47.0	47.0	34.2	34.2	21.3	21.3
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)