

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: P479514

Luminaire Tested: **IFLD-L-SA8C-830-U-5MQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479514
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-830-U-5MQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens
Light Source: (128) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

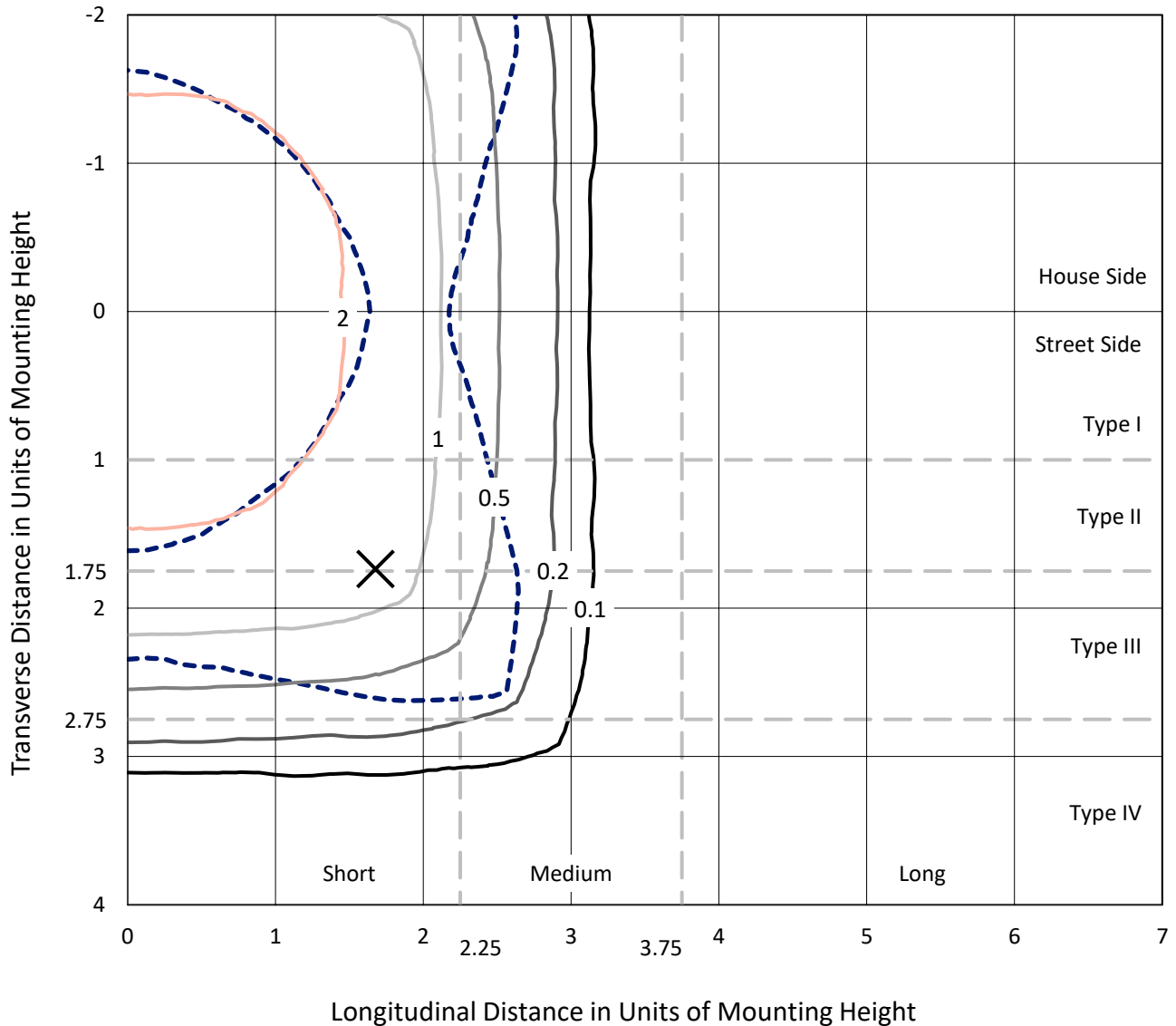
Lumens per Lamp: N/A
Luminaire Lumens: 40636.4 lumens
Efficiency: N/A
Efficacy: 96.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

Input Watts (W): 420.3
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

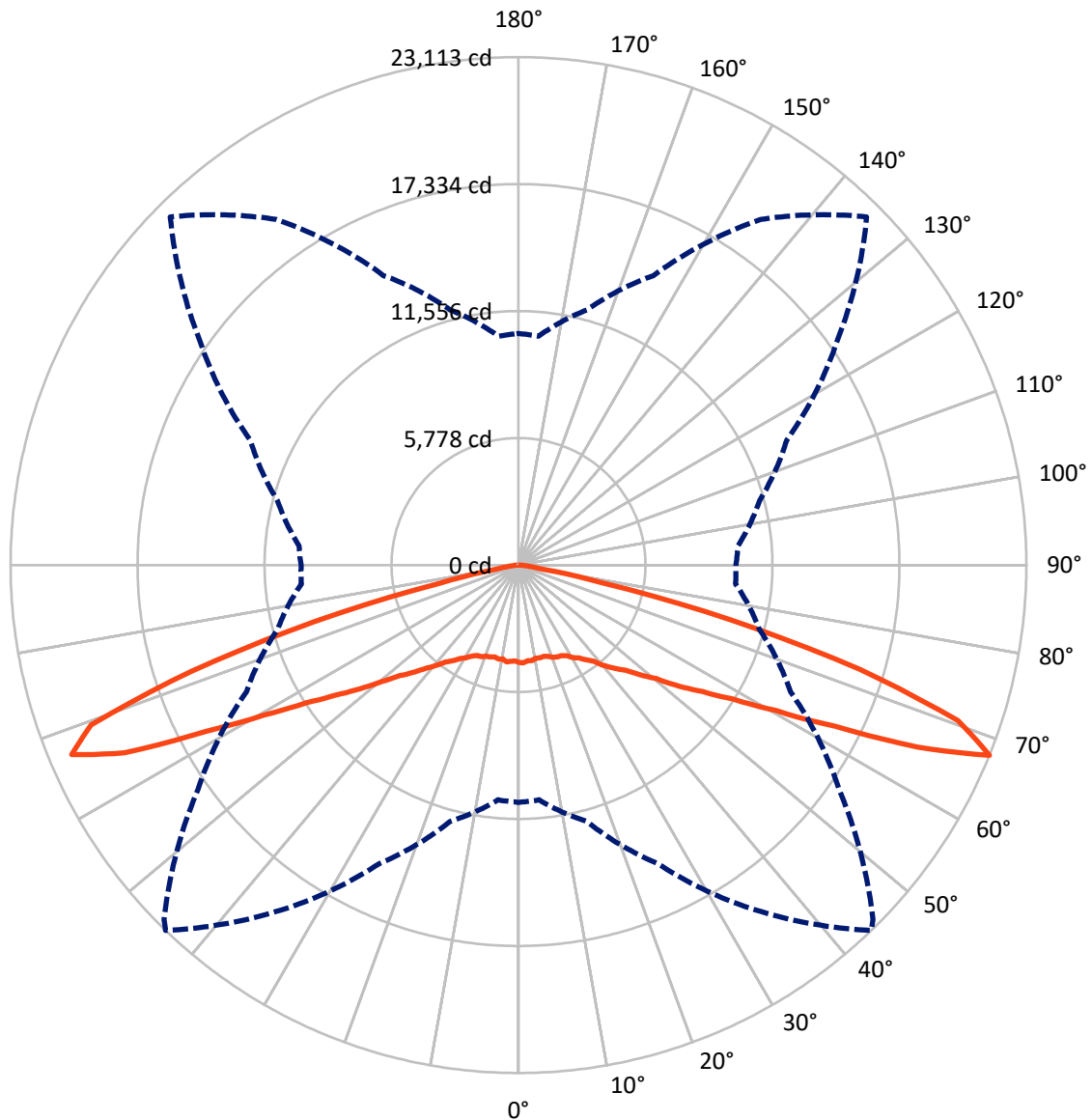
✕ Max cd
 - - - 1/2 Max cd



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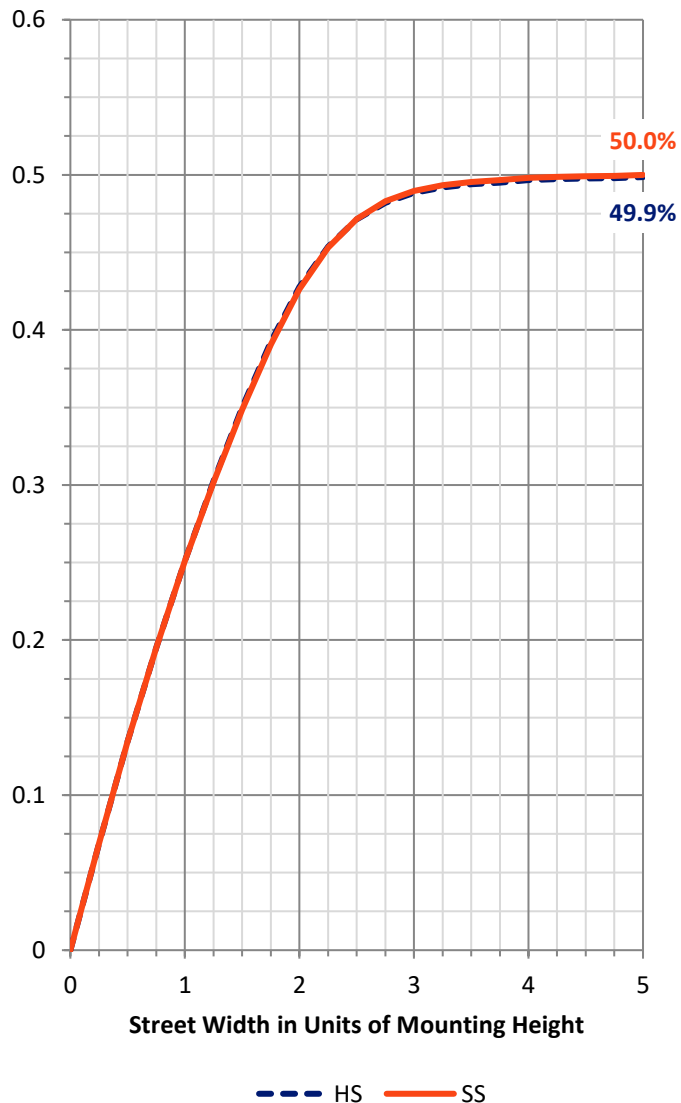
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	20266.2	0.0	20266.2
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	20370.2	0.0	20370.2
	% Fixture	50.1	0.0	50.1
Total	Lumens	40636.4	0.0	40636.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	420.0	1.0
10°-20°	1227.2	3.0
20°-30°	2086.8	5.1
30°-40°	3308.8	8.1
40°-50°	5395.2	13.3
50°-60°	9214.3	22.7
60°-70°	14014.9	34.5
70°-80°	4723.9	11.6
80°-90°	245.3	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°	40636.4	100.0
0°-180°	40636.4	100.0

Coefficient of Utilization



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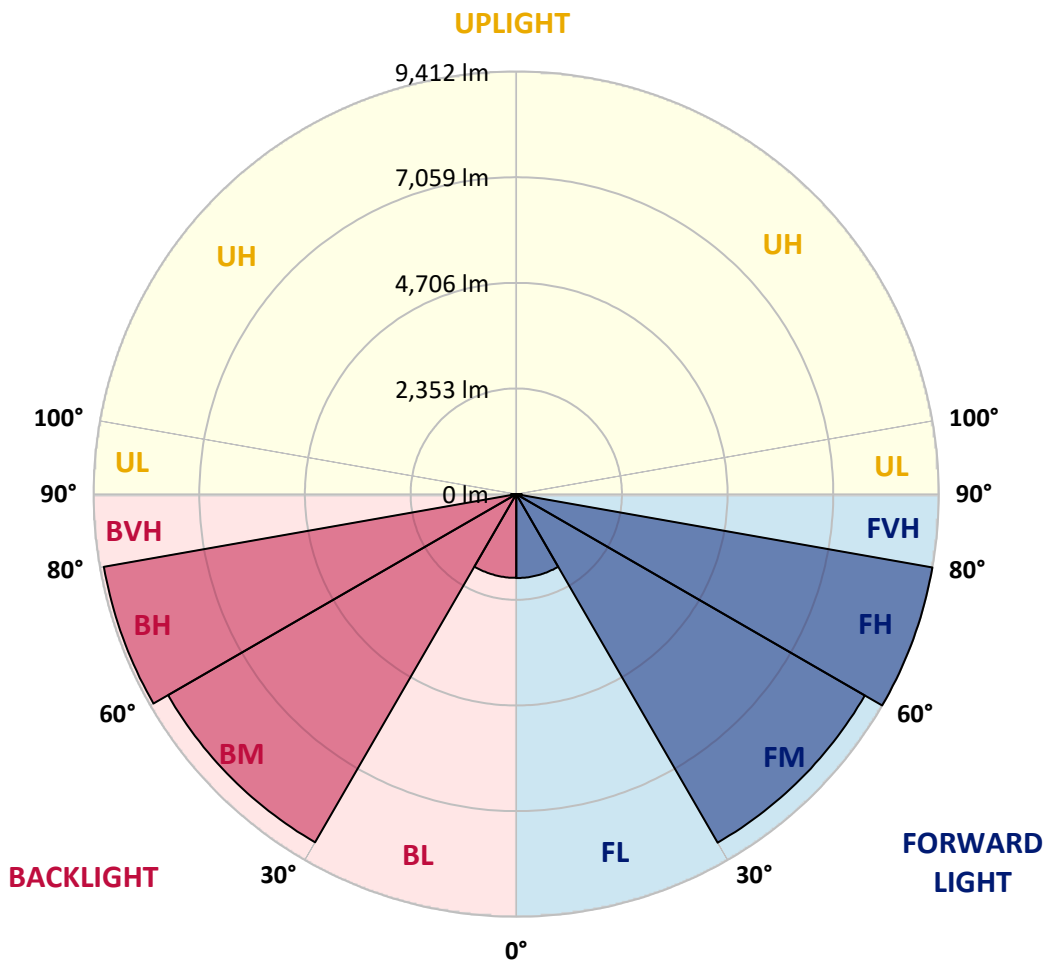
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1868.9	4.6			
FM (30°-60°)	8964.0	22.1			
FH (60°-80°)	9411.8	23.2			G4/12000
FVH (80°-90°)	125.5	0.3			G2/225
BL (0°-30°)	1865.1	4.6	B3/2500		
BM (30°-60°)	8954.3	22.0	B5		
BH (60°-80°)	9326.9	23.0	B5		G4/12000
BVH (80°-90°)	119.8	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°	4438.8	4438.8	4438.8	4438.8	4438.8	4438.8	4438.8	4438.8	4438.8	4438.8	4438.8
2.5°	4336.8	4387.8	4424.9	4420.3	4434.2	4448.1	4429.5	4457.4	4438.8	4471.3	4489.8
5°	4420.3	4406.4	4411.0	4383.2	4448.1	4373.9	4373.9	4411.0	4457.4	4401.7	4434.2
7.5°	4369.2	4360.0	4336.8	4378.5	4392.4	4392.4	4429.5	4360.0	4438.8	4457.4	4462.0
10°	4313.6	4262.6	4332.1	4373.9	4383.2	4309.0	4341.4	4360.0	4336.8	4360.0	4373.9
12.5°	4267.2	4295.0	4295.0	4295.0	4281.1	4332.1	4364.6	4360.0	4313.6	4355.3	4281.1
15°	4262.6	4248.7	4290.4	4327.5	4304.3	4313.6	4327.5	4369.2	4281.1	4299.7	4299.7
17.5°	4257.9	4276.5	4290.4	4285.8	4364.6	4364.6	4350.7	4322.9	4392.4	4355.3	4304.3
20°	4276.5	4262.6	4299.7	4313.6	4369.2	4480.6	4438.8	4415.6	4378.5	4332.1	4332.1
22.5°	4299.7	4290.4	4341.4	4401.7	4508.4	4536.2	4531.6	4503.8	4438.8	4383.2	4373.9
25°	4383.2	4299.7	4355.3	4471.3	4508.4	4564.1	4601.2	4564.1	4475.9	4489.8	4406.4
27.5°	4508.4	4494.5	4568.7	4647.5	4615.1	4666.1	4633.6	4661.5	4666.1	4596.5	4513.0
30°	4656.8	4615.1	4661.5	4814.5	4828.4	4884.1	4828.4	4754.2	4777.4	4717.1	4675.4
32.5°	4870.2	4856.3	4944.4	5046.4	5065.0	5037.2	5009.3	5051.1	4953.7	4907.3	4833.1
35°	5009.3	5069.6	5176.3	5255.2	5315.5	5287.6	5301.5	5259.8	5283.0	5185.6	5153.1
37.5°	5422.1	5398.9	5422.1	5556.6	5570.6	5556.6	5570.6	5616.9	5584.5	5501.0	5417.5
40°	5811.7	5774.6	5830.3	5983.4	5974.1	6020.5	5927.7	5978.7	5978.7	5821.0	5788.6
42.5°	6104.0	6229.2	6294.1	6419.4	6465.7	6424.0	6405.4	6414.7	6516.8	6331.2	6261.7
45°	6706.9	6702.3	6897.1	6966.7	6836.8	6827.5	6790.4	6901.7	6971.3	6864.6	6836.8
47.5°	7360.9	7393.4	7504.7	7532.5	7611.4	7467.6	7467.6	7481.5	7727.4	7476.9	7347.0
50°	7950.0	7991.7	8214.4	8432.4	8283.9	8130.9	8191.2	8265.4	8399.9	8163.4	8052.0
52.5°	8664.3	8891.6	9040.0	9155.9	9262.6	9155.9	9016.8	9100.3	9364.7	9049.3	8910.1
55°	9694.0	9874.9	10014.0	10227.4	10315.5	10171.7	10157.8	10148.5	10297.0	9963.0	9772.8
57.5°	10844.3	10770.1	10992.7	11322.0	11642.1	11502.9	11461.2	11470.4	11507.5	11034.4	10890.7
60°	12272.9	12356.3	12620.7	12908.3	13246.9	13441.7	13168.0	13010.3	13042.8	12398.1	12175.5
62.5°	13089.2	13274.7	13873.1	14861.0	15542.8	16150.4	16192.2	15167.1	14480.7	13228.3	12282.1
65°	12694.9	12667.1	13794.2	15621.7	18205.2	19972.4	19708.0	17221.9	14823.9	12834.1	11563.2
67.5°	10797.9	10723.7	12087.3	14986.2	19253.4	23112.5	22811.0	17801.7	13664.3	11354.5	9916.6
70°	6957.4	6938.8	8418.5	11424.1	17189.4	21220.1	21331.4	16169.0	11122.6	8316.4	6892.5
72.5°	2527.9	2680.9	3539.0	6141.1	11674.5	16233.9	16303.5	11971.4	6396.2	3845.1	2834.0
75°	932.3	960.1	1117.8	1994.5	5320.1	9967.6	10227.4	5807.1	2272.8	1252.3	1020.4
77.5°	538.0	542.7	598.3	742.1	1577.0	3891.5	4049.2	1762.5	881.3	667.9	616.9
80°	366.4	361.8	422.1	482.4	630.8	1103.9	1173.5	737.5	556.6	463.8	389.6
82.5°	213.4	227.3	310.8	343.2	385.0	487.0	496.3	459.2	417.4	343.2	255.1
85°	129.9	106.7	171.6	190.2	222.6	218.0	218.0	250.5	269.0	241.2	143.8
87.5°	32.5	32.5	41.7	46.4	60.3	46.4	51.0	97.4	129.9	120.6	74.2
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°	4438.8	4438.8	4438.8	4438.8	4438.8	4438.8	4438.8	4438.8	4438.8	4438.8	4438.8
2.5°	4448.1	4434.2	4443.5	4494.5	4462.0	4364.6	4387.8	4438.8	4397.1	4373.9	4369.2
5°	4429.5	4457.4	4424.9	4434.2	4466.7	4387.8	4401.7	4466.7	4438.8	4448.1	4397.1
7.5°	4434.2	4448.1	4420.3	4378.5	4378.5	4443.5	4406.4	4415.6	4373.9	4443.5	4350.7
10°	4406.4	4369.2	4336.8	4360.0	4350.7	4332.1	4318.2	4346.1	4304.3	4364.6	4299.7
12.5°	4322.9	4332.1	4322.9	4313.6	4332.1	4378.5	4304.3	4313.6	4248.7	4257.9	4290.4
15°	4290.4	4318.2	4309.0	4360.0	4383.2	4313.6	4369.2	4313.6	4262.6	4234.7	4285.8
17.5°	4304.3	4346.1	4332.1	4369.2	4327.5	4378.5	4387.8	4364.6	4304.3	4281.1	4304.3
20°	4318.2	4304.3	4322.9	4387.8	4448.1	4397.1	4397.1	4383.2	4327.5	4295.0	4295.0
22.5°	4350.7	4327.5	4355.3	4406.4	4424.9	4503.8	4434.2	4401.7	4309.0	4225.5	4304.3
25°	4415.6	4429.5	4448.1	4429.5	4531.6	4522.3	4513.0	4489.8	4346.1	4350.7	4336.8
27.5°	4540.9	4462.0	4485.2	4596.5	4610.4	4647.5	4601.2	4642.9	4489.8	4494.5	4401.7
30°	4693.9	4610.4	4684.7	4782.1	4777.4	4847.0	4823.8	4833.1	4726.4	4666.1	4540.9
32.5°	4860.9	4851.6	4898.0	4958.3	4981.5	5018.6	5014.0	5014.0	4949.0	4791.3	4814.5
35°	5046.4	5111.4	5167.0	5232.0	5241.2	5287.6	5222.7	5232.0	5167.0	5051.1	5088.2
37.5°	5412.9	5408.2	5468.5	5547.4	5556.6	5519.5	5570.6	5547.4	5459.2	5380.4	5320.1
40°	5839.6	5746.8	5802.5	5988.0	6001.9	5937.0	5932.3	5927.7	5862.8	5691.2	5654.0
42.5°	6210.6	6331.2	6322.0	6382.3	6340.5	6308.0	6424.0	6359.1	6308.0	6127.2	6094.7
45°	6688.4	6725.5	6846.1	7040.9	6841.4	6841.4	6920.3	6869.3	6841.4	6706.9	6581.7
47.5°	7282.1	7314.5	7555.7	7569.7	7439.8	7351.7	7597.5	7606.8	7490.8	7388.8	7235.7
50°	7977.8	7991.7	8209.7	8432.4	8288.6	8121.6	8372.1	8469.5	8209.7	8070.6	7880.4
52.5°	8743.1	8701.4	8882.3	9299.7	9160.6	9109.6	9378.6	9401.8	9049.3	8831.3	8882.3
55°	9624.4	9568.7	10060.4	10343.3	10255.2	10162.4	10283.0	10338.7	10055.8	9698.6	9823.9
57.5°	10765.4	10793.2	11039.1	11317.4	11461.2	11484.4	11540.0	11484.4	11196.8	10835.0	10719.0
60°	11906.4	11989.9	12467.7	12991.8	13038.2	13446.3	13372.1	13093.8	12685.7	12170.8	12194.0
62.5°	12328.5	12258.9	13028.9	14309.1	15399.0	16145.8	15816.5	14828.5	13882.3	12945.4	13015.0
65°	11479.7	11651.3	12699.6	14703.3	17068.8	20023.4	18270.1	15538.2	13627.2	12416.6	12282.1
67.5°	9893.4	10023.3	11354.5	13469.5	17667.2	22407.5	19197.8	14536.3	12017.8	10450.0	10533.5
70°	6892.5	6957.4	8260.8	11034.4	16020.6	21145.9	17319.3	11164.3	8297.9	6614.2	6706.9
72.5°	2773.7	2931.4	3789.5	6646.6	11827.6	16067.0	11660.6	5858.1	3441.6	2560.3	2323.8
75°	1025.1	1029.7	1210.6	2286.7	5616.9	10097.5	5259.8	1883.1	1099.3	899.8	858.1
77.5°	593.7	589.1	630.8	825.6	1628.0	3942.5	1493.5	737.5	598.3	538.0	514.8
80°	371.1	366.4	431.4	547.3	714.3	1080.7	630.8	459.2	403.5	347.9	347.9
82.5°	236.6	241.2	338.6	403.5	436.0	477.7	366.4	324.7	301.5	199.4	194.8
85°	153.1	139.1	236.6	269.0	241.2	213.4	204.1	171.6	157.7	97.4	106.7
87.5°	69.6	74.2	120.6	134.5	88.1	51.0	51.0	37.1	37.1	23.2	23.2
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)