

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: P481369

Luminaire Tested: **IFLD-S-SA6A-760-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481369
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6A-760-U-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (96) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

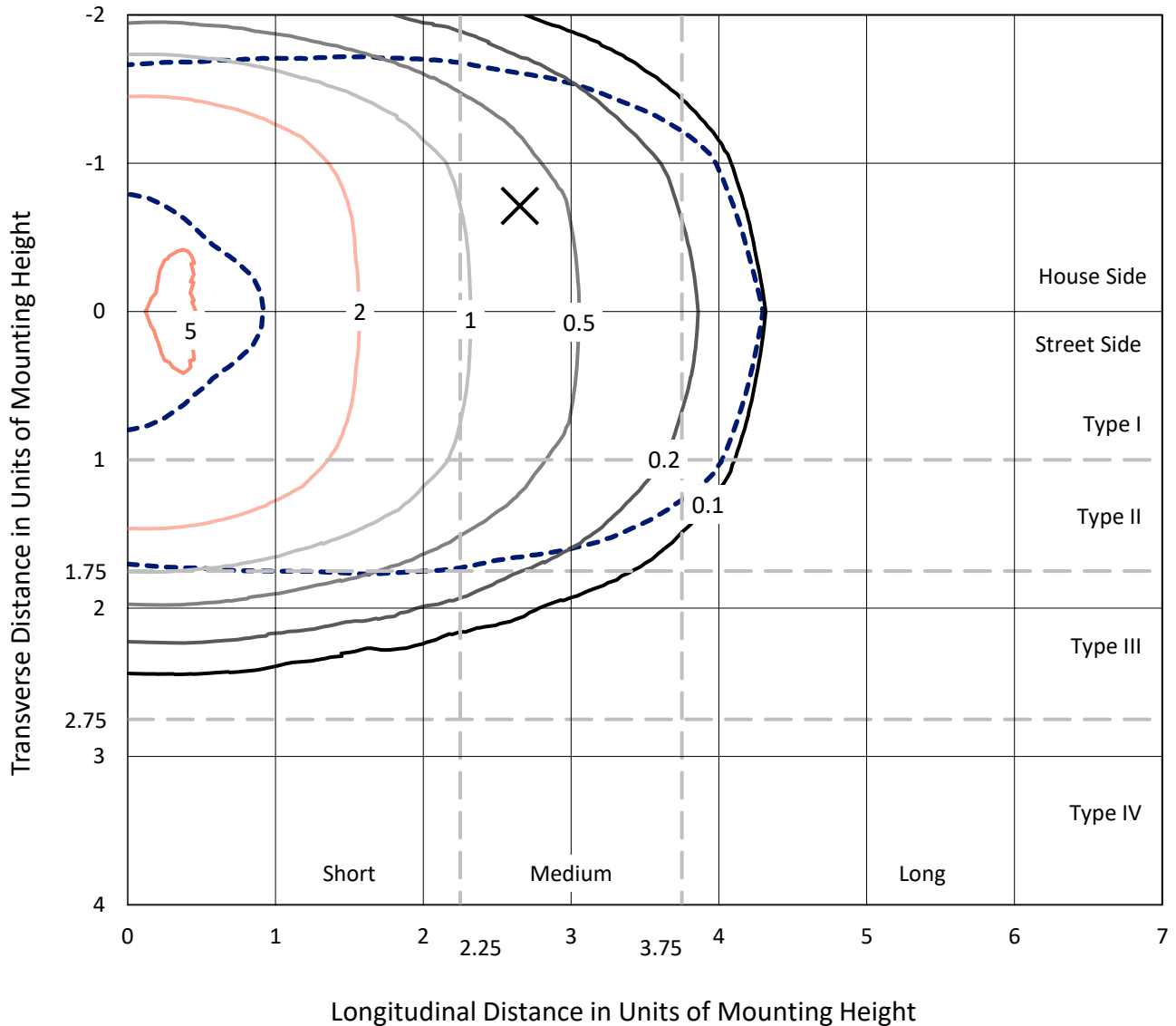
Lumens per Lamp: N/A
Luminaire Lumens: 28437 lumens
Efficiency: N/A
Efficacy: 150.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

Input Watts (W): 189.6
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

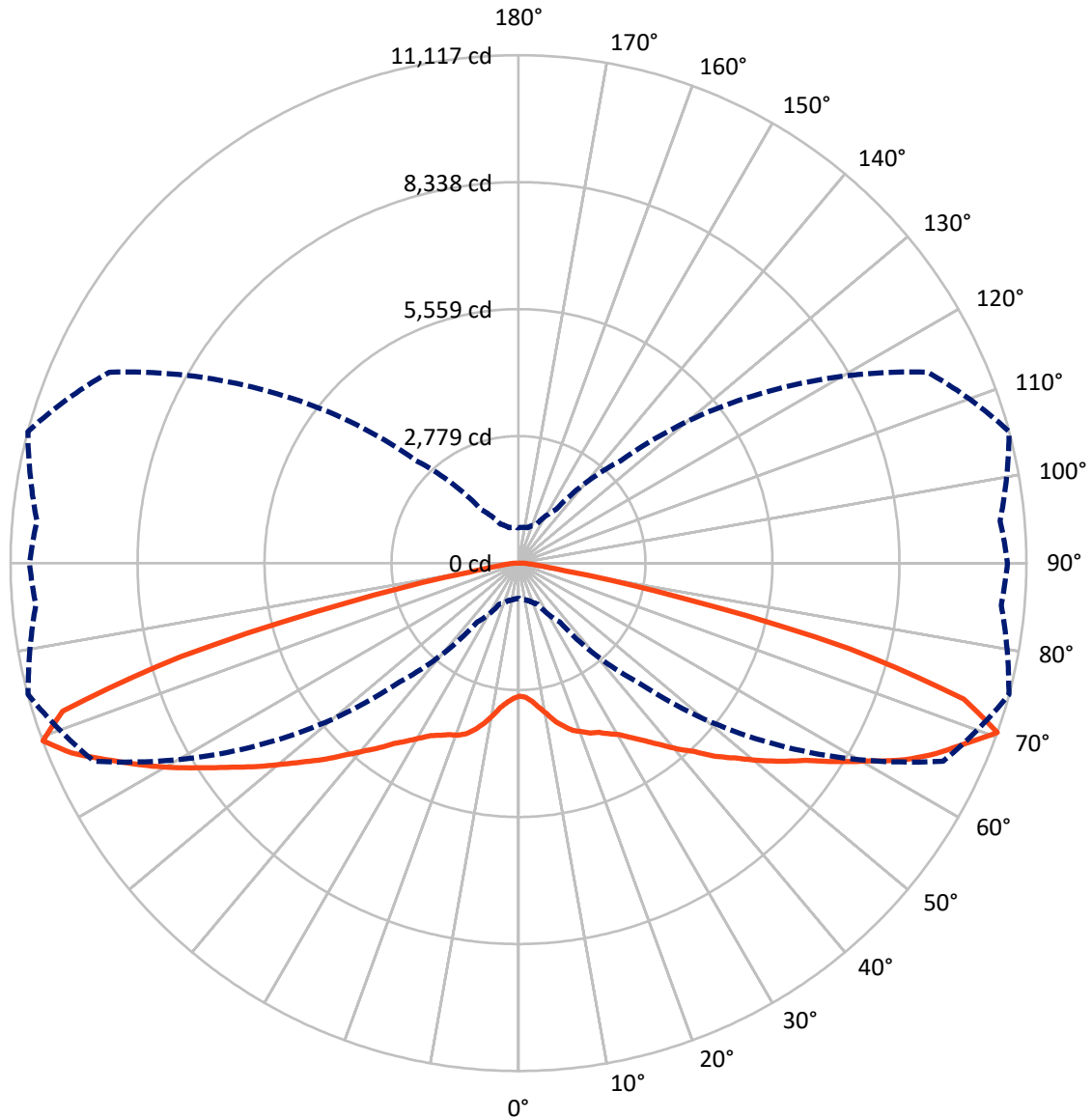
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 105-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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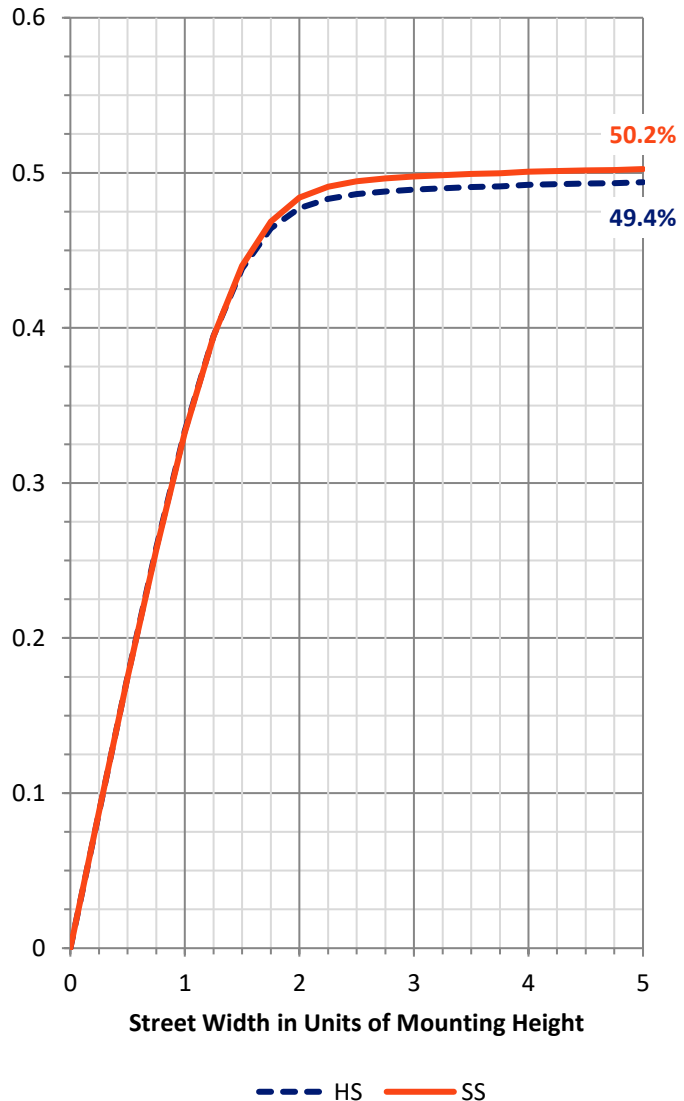
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14117.4	0.0	14117.4
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	14319.7	0.0	14319.7
	% Fixture	50.4	0.0	50.4
Total	Lumens	28437.0	0.0	28437.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	289.8	1.0
10°-20°	986.9	3.5
20°-30°	1910.9	6.7
30°-40°	3232.1	11.4
40°-50°	5156.2	18.1
50°-60°	7057.7	24.8
60°-70°	6652.4	23.4
70°-80°	2930.6	10.3
80°-90°	220.5	0.8
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°	28437.0	100.0
0°-180°	28437.0	100.0

Coefficient of Utilization



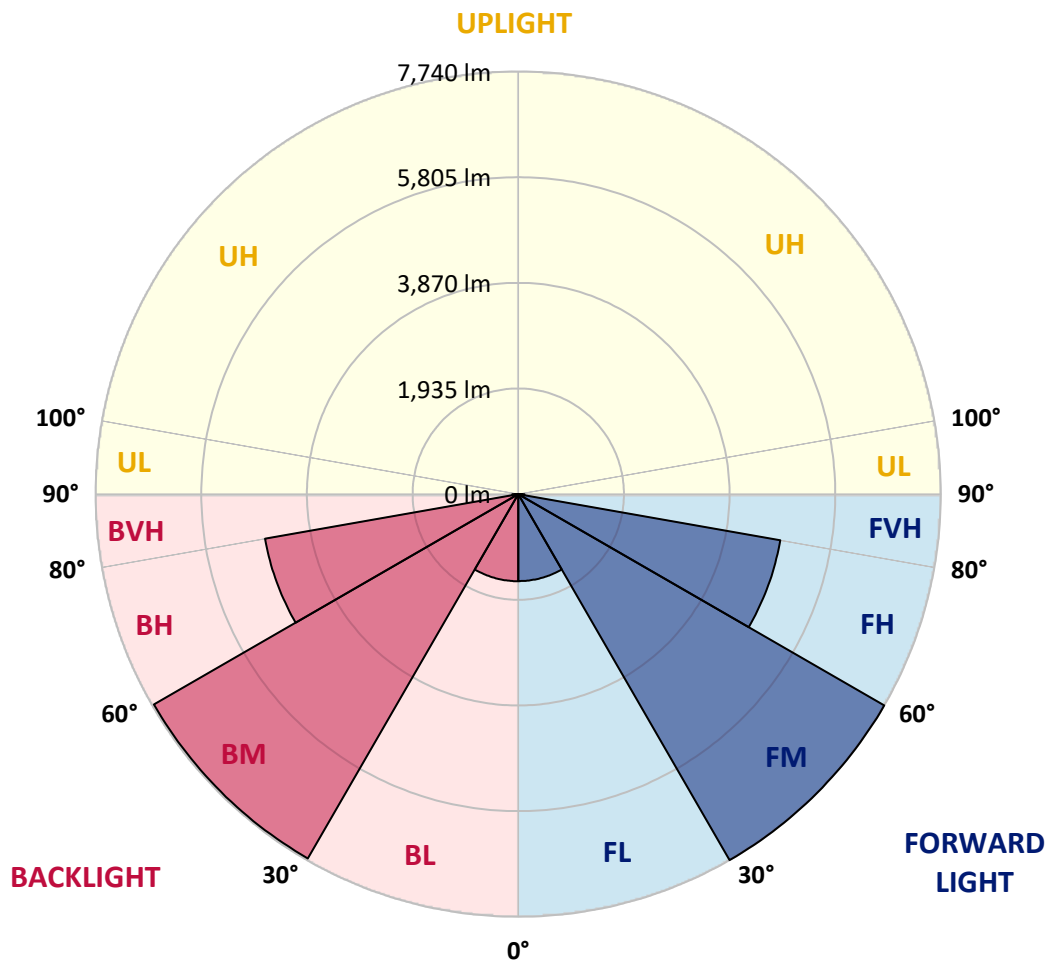
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1592.9	5.6			
FM (30°-60°)	7740.3	27.2			
FH (60°-80°)	4873.8	17.1			G2/5000
FVH (80°-90°)	112.6	0.4			G2/225
BL (0°-30°)	1594.7	5.6	B3/2500		
BM (30°-60°)	7705.7	27.1	B4/8500		
BH (60°-80°)	4709.1	16.6	B4/5000		G4/5000
BVH (80°-90°)	107.9	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2911.9	2911.9	2911.9	2911.9	2911.9	2911.9	2911.9	2911.9	2911.9	2911.9	2911.9
2.5°	2893.5	2893.5	2890.5	2905.8	2921.1	2927.2	2939.5	2942.6	2961.0	2945.6	2976.3
5°	2884.3	2881.3	2905.8	2942.6	2942.6	2982.4	3006.9	3040.7	3049.9	3068.2	3074.4
7.5°	2948.7	2942.6	2930.3	2970.2	3003.9	3065.2	3098.9	3157.1	3178.6	3203.1	3230.7
10°	2988.6	2988.6	2976.3	3046.8	3077.4	3160.2	3233.8	3292.0	3374.8	3402.4	3405.4
12.5°	2994.7	3003.9	3040.7	3132.6	3218.4	3325.7	3380.9	3491.2	3574.0	3626.1	3644.5
15°	3086.6	3068.2	3108.1	3233.8	3359.4	3454.5	3552.5	3632.2	3751.8	3819.2	3862.1
17.5°	3169.4	3151.0	3224.6	3374.8	3503.5	3650.6	3736.5	3822.3	3908.1	3969.4	3972.5
20°	3301.2	3316.5	3380.9	3543.3	3711.9	3840.7	3938.8	3954.1	3997.0	4085.9	4070.6
22.5°	3463.7	3451.4	3586.3	3764.0	3948.0	4055.2	4110.4	4070.6	4049.1	4144.1	4165.6
25°	3626.1	3662.9	3785.5	3951.0	4171.7	4315.8	4331.1	4220.8	4141.1	4174.8	4165.6
27.5°	3874.4	3880.5	4009.3	4205.4	4429.2	4554.9	4545.7	4389.3	4236.1	4239.1	4245.3
30°	4193.2	4162.5	4303.5	4481.3	4702.0	4815.4	4830.7	4607.0	4401.6	4340.3	4355.6
32.5°	4499.7	4536.5	4659.1	4861.4	5023.8	5088.2	5054.5	4855.2	4588.6	4505.8	4515.0
35°	4892.0	4885.9	5054.5	5226.1	5348.7	5361.0	5333.4	5042.2	4790.9	4683.6	4640.7
37.5°	5312.0	5367.1	5477.5	5618.5	5747.2	5753.3	5603.1	5370.2	5060.6	4882.8	4934.9
40°	5780.9	5842.2	5921.9	6127.3	6222.3	6124.2	5971.0	5655.3	5333.4	5177.1	5201.6
42.5°	6194.7	6222.3	6384.8	6626.9	6672.9	6630.0	6403.2	6020.0	5646.1	5474.4	5486.7
45°	6574.8	6611.6	6823.1	7040.7	7148.0	7074.4	6810.8	6446.1	6010.8	5863.7	5805.5
47.5°	6924.2	6997.8	7203.2	7426.9	7592.5	7598.6	7273.7	6832.3	6372.5	6179.4	6176.3
50°	7160.3	7267.5	7469.8	7724.3	7966.4	8061.4	7736.5	7261.4	6767.9	6562.6	6541.1
52.5°	7289.0	7399.3	7601.6	7997.1	8266.8	8413.9	8260.7	7663.0	7230.8	7016.2	6982.5
55°	7132.7	7206.2	7537.3	8092.1	8508.9	8751.1	8649.9	8217.7	7690.5	7515.8	7546.5
57.5°	6467.5	6620.8	7028.5	7721.2	8502.8	9097.5	9088.3	8741.9	8220.8	8055.3	8061.4
60°	5324.2	5453.0	5955.6	6924.2	8159.5	9238.5	9563.4	9250.7	8815.5	8622.4	8616.2
62.5°	3757.9	3920.4	4502.7	5560.2	7148.0	9042.3	10109.0	9891.3	9397.8	9256.8	9309.0
65°	2102.7	2200.8	2740.3	3696.6	5446.8	7963.3	10207.1	10556.5	9989.4	9774.9	9784.1
67.5°	1124.9	1161.7	1413.0	1940.3	3331.9	6139.6	9217.0	10939.6	10630.0	10259.2	10200.9
70°	772.4	784.7	849.1	993.1	1575.5	3672.1	6951.8	10256.1	11111.3	10605.5	10703.6
72.5°	652.9	646.8	662.1	677.4	824.5	1642.9	4079.8	7892.8	10489.0	10299.0	10262.2
75°	567.1	564.0	570.1	554.8	573.2	723.4	1805.4	4919.6	7678.3	8570.2	8708.2
77.5°	469.0	472.0	475.1	459.8	453.6	478.2	726.4	2161.0	3779.4	4171.7	4499.7
80°	355.6	361.7	386.2	370.9	346.4	349.4	429.1	723.4	1085.1	983.9	1014.6
82.5°	242.1	245.2	297.3	278.9	260.5	236.0	275.9	374.0	423.0	321.8	282.0
85°	171.7	168.6	193.1	177.8	165.5	119.5	165.5	211.5	254.4	159.4	144.1
87.5°	39.8	39.8	79.7	64.4	61.3	49.0	64.4	82.8	110.3	70.5	64.4
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2911.9	2911.9	2911.9	2911.9	2911.9	2911.9	2911.9	2911.9	2911.9	2911.9
2.5°	2967.1	2939.5	2939.5	2933.4	2908.9	2902.7	2881.3	2887.4	2872.1	2856.7
5°	3071.3	3034.5	3034.5	2982.4	2933.4	2927.2	2902.7	2902.7	2878.2	2884.3
7.5°	3215.4	3181.7	3126.5	3080.5	3013.1	2985.5	2939.5	2933.4	2927.2	2915.0
10°	3387.0	3344.1	3288.9	3193.9	3138.7	3086.6	3040.7	2976.3	2961.0	2964.0
12.5°	3620.0	3552.5	3433.0	3350.2	3279.7	3212.3	3144.9	3049.9	3028.4	3037.6
15°	3785.5	3699.7	3580.1	3549.5	3454.5	3371.7	3261.4	3154.1	3117.3	3108.1
17.5°	3920.4	3849.9	3779.4	3733.4	3656.8	3555.6	3402.4	3279.7	3197.0	3187.8
20°	4030.7	3938.8	3923.4	3951.0	3856.0	3788.6	3601.6	3451.4	3341.0	3295.1
22.5°	4098.1	4039.9	4082.8	4107.3	4101.2	3987.8	3794.7	3620.0	3482.0	3439.1
25°	4171.7	4104.3	4257.5	4340.3	4361.8	4174.8	4024.6	3794.7	3659.8	3632.2
27.5°	4208.5	4233.0	4410.8	4585.5	4570.2	4426.1	4223.8	4018.5	3911.2	3862.1
30°	4315.8	4355.6	4625.4	4821.5	4824.6	4683.6	4530.3	4297.4	4177.8	4156.4
32.5°	4508.9	4557.9	4846.1	5054.5	5091.3	4984.0	4830.7	4686.7	4564.1	4515.0
35°	4656.0	4781.7	5106.6	5296.6	5394.7	5330.3	5244.5	5094.3	4965.6	4922.7
37.5°	4867.5	5042.2	5354.9	5612.3	5722.7	5716.6	5652.2	5489.7	5382.5	5345.7
40°	5171.0	5345.7	5630.7	5971.0	6176.3	6167.1	6130.4	6004.7	5845.3	5826.9
42.5°	5492.8	5636.9	6007.8	6397.0	6691.3	6660.6	6562.6	6415.4	6305.1	6280.6
45°	5805.5	6029.2	6372.5	6872.1	7092.8	7169.5	7053.0	6801.6	6676.0	6660.6
47.5°	6197.8	6375.6	6804.7	7252.2	7580.2	7592.5	7393.2	7160.3	6930.4	6979.4
50°	6547.2	6783.2	7218.5	7708.9	8101.3	7960.3	7705.9	7414.7	7249.2	7184.8
52.5°	6921.2	7209.3	7715.1	8214.7	8432.3	8291.3	7877.5	7552.6	7301.3	7273.7
55°	7466.8	7617.0	8279.1	8662.2	8732.7	8435.4	7825.4	7365.6	7040.7	6961.0
57.5°	8021.6	8196.3	8775.6	9106.7	9033.1	8355.7	7488.2	6777.1	6351.1	6237.6
60°	8582.5	8797.1	9284.4	9587.9	9207.8	7807.0	6535.0	5618.5	5121.9	5020.8
62.5°	9207.8	9486.7	9922.0	10029.3	8689.8	6721.9	5186.3	4055.2	3552.5	3384.0
65°	9762.6	10047.7	10584.1	9937.3	7589.4	5014.6	3353.3	2317.3	1946.4	1811.5
67.5°	10219.3	10541.2	10804.8	8794.0	5557.2	2936.4	1747.2	1219.9	1082.0	1033.0
70°	10581.0	11117.4	9885.2	6464.5	3175.5	1431.4	944.1	803.1	784.7	772.4
72.5°	10265.3	10194.8	7381.0	3730.3	1391.6	787.8	683.5	662.1	659.0	662.1
75°	8395.5	7488.2	4413.9	1621.5	698.9	570.1	567.1	557.9	573.2	573.2
77.5°	4073.6	3561.7	1845.2	695.8	459.8	447.5	462.8	462.8	462.8	462.8
80°	944.1	1045.2	659.0	423.0	334.1	334.1	367.8	370.9	355.6	349.4
82.5°	321.8	429.1	361.7	266.7	220.7	248.3	278.9	285.1	236.0	239.1
85°	159.4	251.3	196.2	153.3	113.4	153.3	180.8	190.0	162.5	156.3
87.5°	73.6	110.3	73.6	52.1	39.8	55.2	52.1	42.9	24.5	24.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)