

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: P481457

Luminaire Tested: **IFLD-L-SA7A-830-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481457
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-830-U-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (112) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

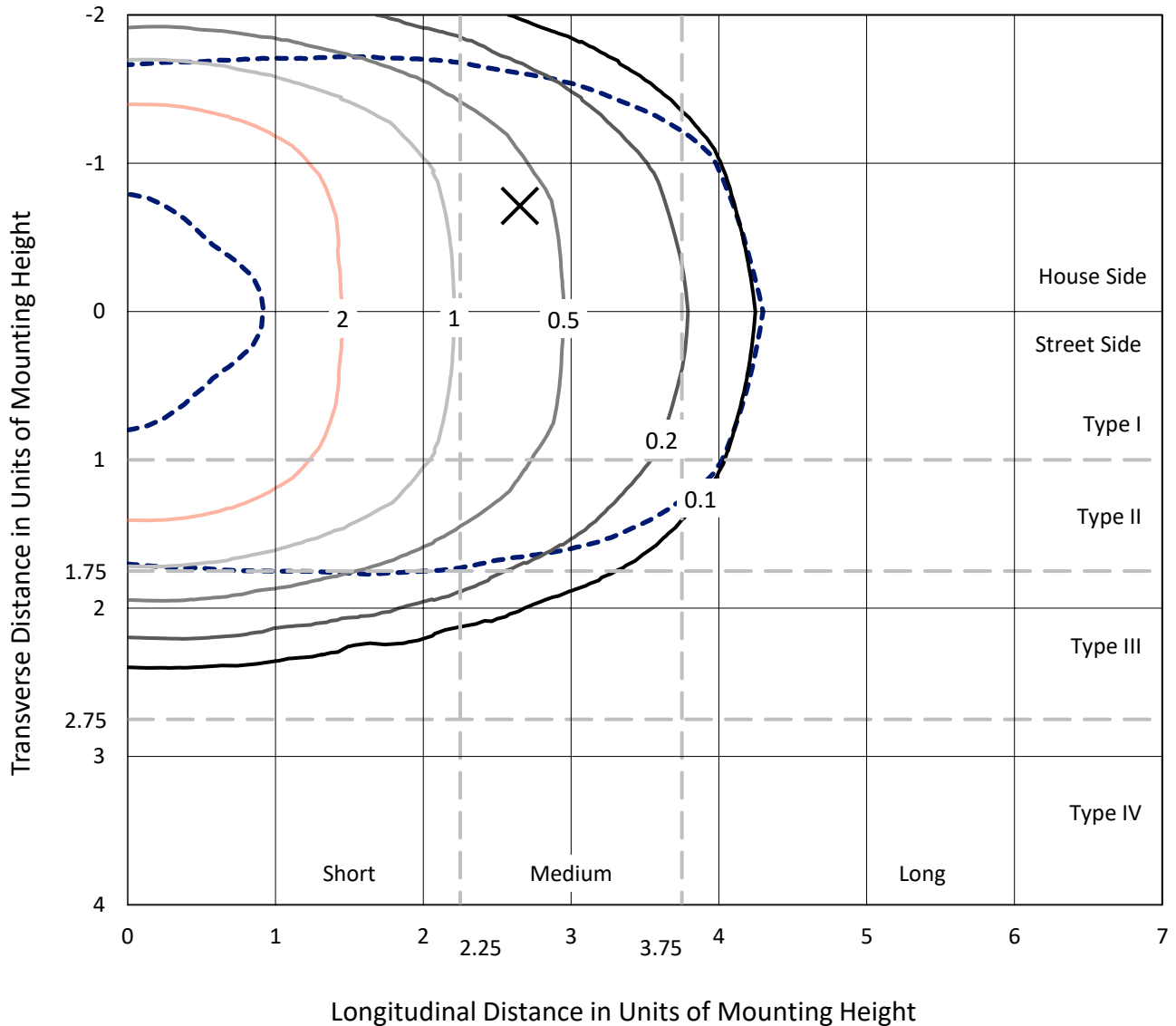
Lumens per Lamp: N/A
Luminaire Lumens: 25618.2 lumens
Efficiency: N/A
Efficacy: 117.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

Input Watts (W): 217.6
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

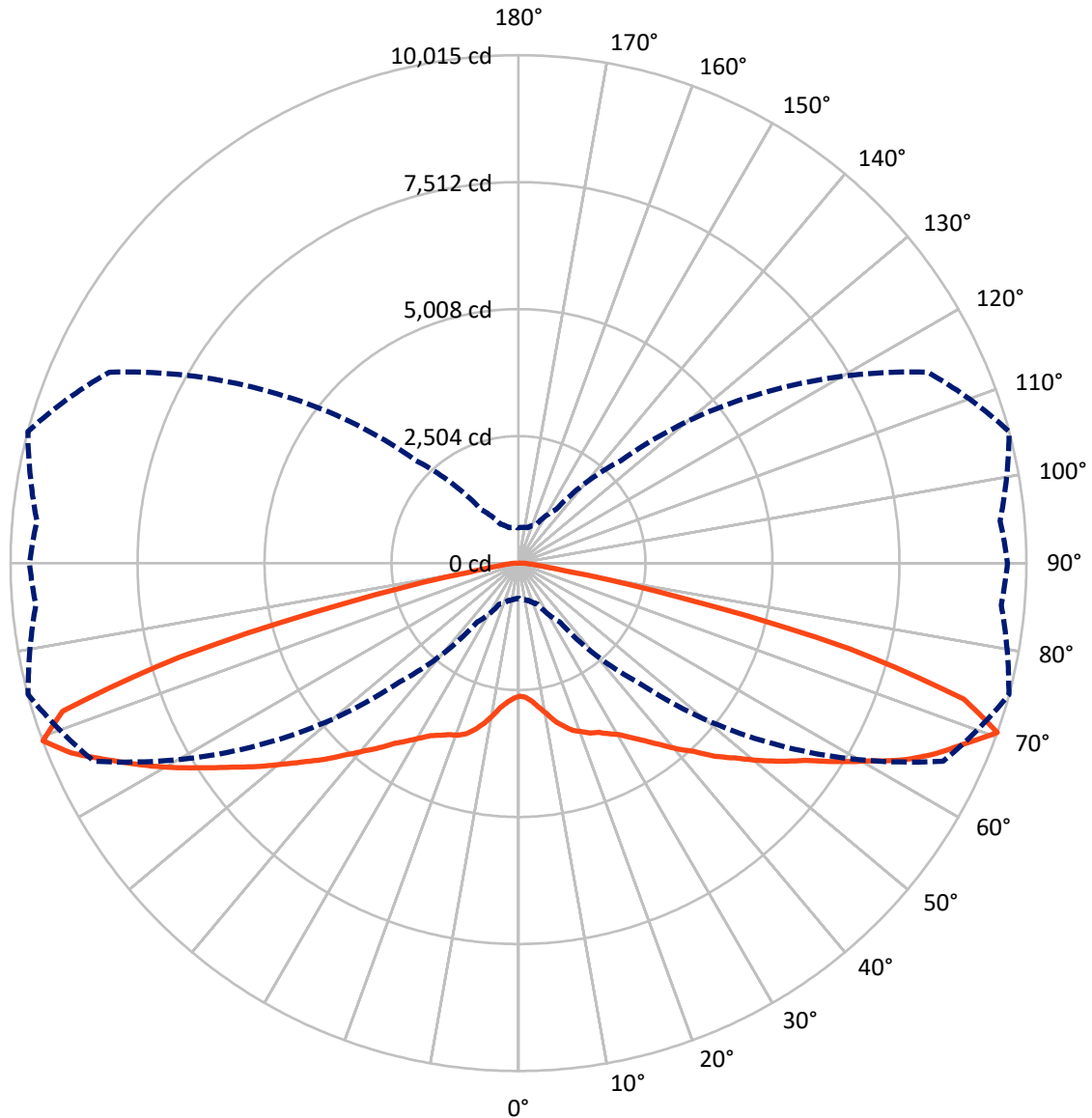
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 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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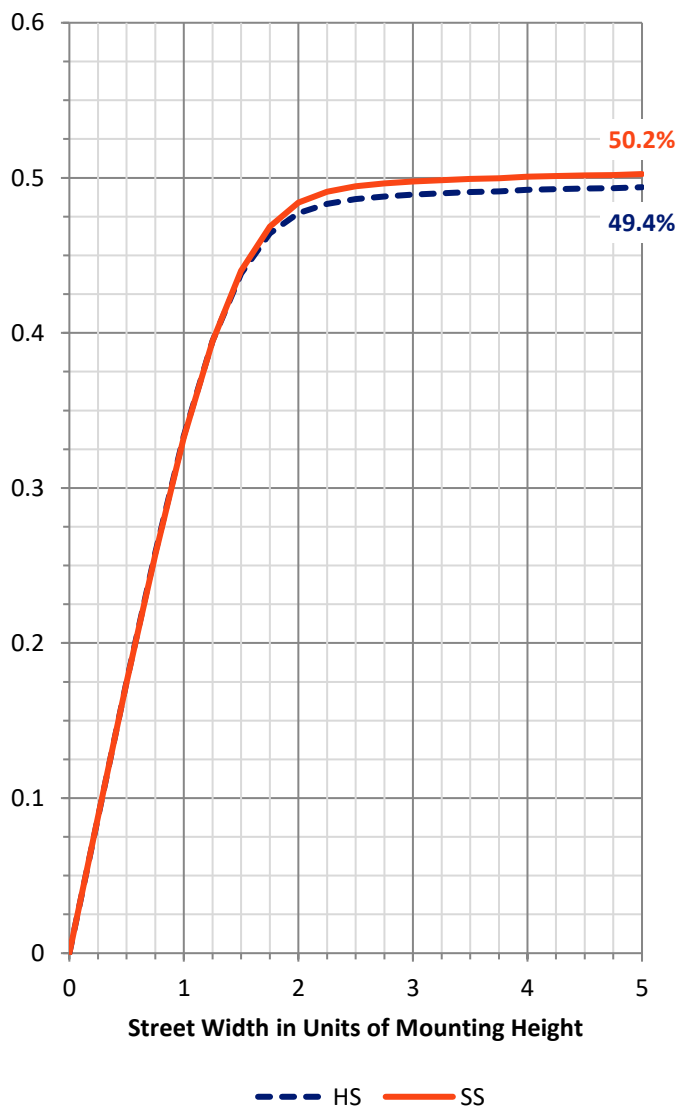
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12718.0	0.0	12718.0
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	12900.2	0.0	12900.2
	% Fixture	50.4	0.0	50.4
Total	Lumens	25618.2	0.0	25618.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	261.1	1.0
10°-20°	889.0	3.5
20°-30°	1721.5	6.7
30°-40°	2911.7	11.4
40°-50°	4645.1	18.1
50°-60°	6358.1	24.8
60°-70°	5993.0	23.4
70°-80°	2640.1	10.3
80°-90°	198.6	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°	25618.2	100.0
0°-180°	25618.2	100.0

Coefficient of Utilization

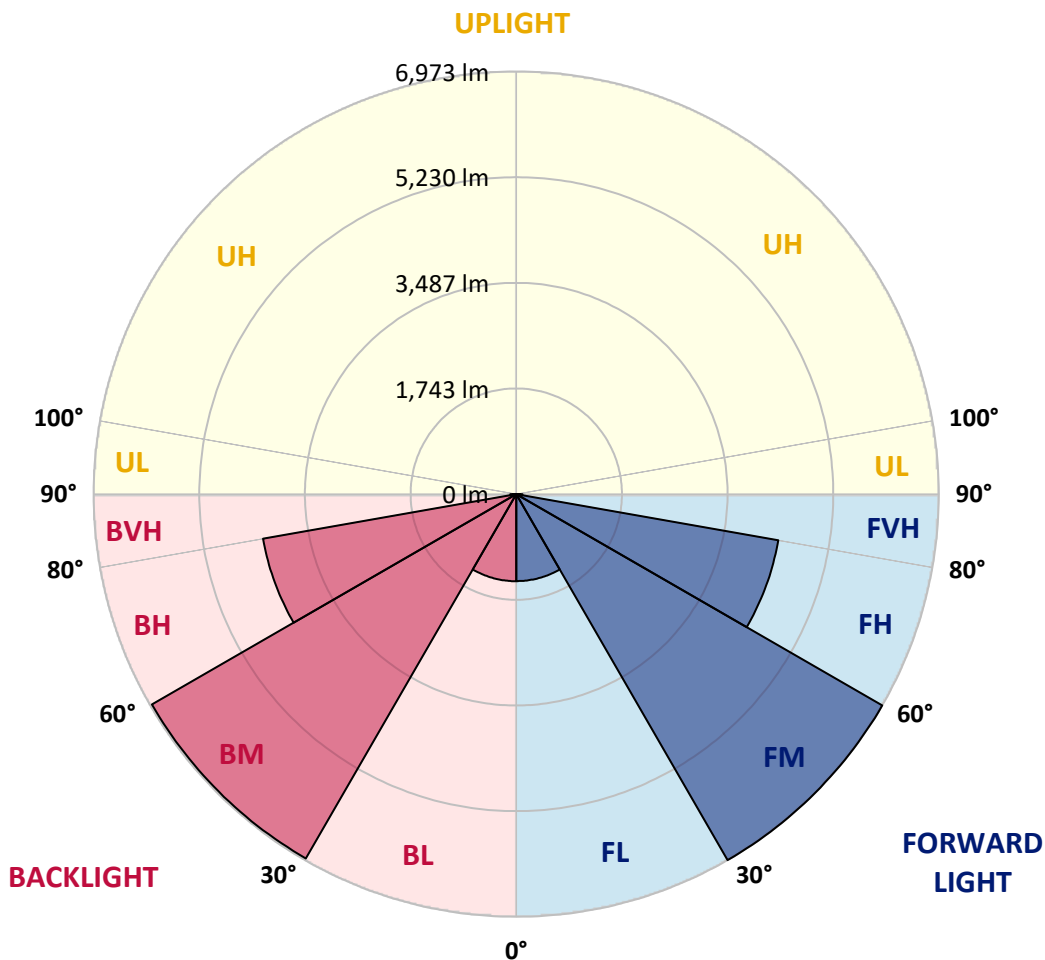


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1435.0	5.6			
FM (30°-60°)	6973.0	27.2			
FH (60°-80°)	4390.7	17.1			G2/5000
FVH (80°-90°)	101.5	0.4			G2/225
BL (0°-30°)	1436.6	5.6	B3/2500		
BM (30°-60°)	6941.9	27.1	B4/8500		
BH (60°-80°)	4242.3	16.6	B4/5000		G4/5000
BVH (80°-90°)	97.2	0.4			G1/100
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°	2623.3	2623.3	2623.3	2623.3	2623.3	2623.3	2623.3	2623.3	2623.3	2623.3	2623.3
2.5°	2606.7	2606.7	2604.0	2617.8	2631.6	2637.1	2648.1	2650.9	2667.5	2653.7	2681.3
5°	2598.4	2595.7	2617.8	2650.9	2650.9	2686.8	2708.9	2739.3	2747.5	2764.1	2769.6
7.5°	2656.4	2650.9	2639.8	2675.7	2706.1	2761.3	2791.7	2844.2	2863.5	2885.6	2910.5
10°	2692.3	2692.3	2681.3	2744.8	2772.4	2846.9	2913.2	2965.7	3040.2	3065.1	3067.9
12.5°	2697.8	2706.1	2739.3	2822.1	2899.4	2996.1	3045.8	3145.2	3219.7	3266.7	3283.2
15°	2780.7	2764.1	2800.0	2913.2	3026.4	3112.0	3200.4	3272.2	3379.9	3440.6	3479.3
17.5°	2855.2	2838.7	2904.9	3040.2	3156.2	3288.8	3366.1	3443.4	3520.7	3575.9	3578.7
20°	2974.0	2987.8	3045.8	3192.1	3344.0	3460.0	3548.3	3562.1	3600.8	3680.9	3667.1
22.5°	3120.3	3109.3	3230.8	3390.9	3556.6	3653.3	3703.0	3667.1	3647.7	3733.3	3752.7
25°	3266.7	3299.8	3410.3	3559.4	3758.2	3888.0	3901.8	3802.4	3730.6	3761.0	3752.7
27.5°	3490.3	3495.9	3611.8	3788.6	3990.1	4103.4	4095.1	3954.2	3816.2	3818.9	3824.5
30°	3777.5	3749.9	3876.9	4037.1	4235.9	4338.1	4351.9	4150.3	3965.3	3910.1	3923.9
32.5°	4053.7	4086.8	4197.2	4379.5	4525.8	4583.8	4553.5	4374.0	4133.7	4059.2	4067.5
35°	4407.1	4401.6	4553.5	4708.1	4818.6	4829.6	4804.7	4542.4	4316.0	4219.3	4180.7
37.5°	4785.4	4835.1	4934.5	5061.5	5177.5	5183.0	5047.7	4837.9	4559.0	4398.8	4445.8
40°	5207.9	5263.1	5334.9	5519.9	5605.5	5517.2	5379.1	5094.7	4804.7	4663.9	4686.0
42.5°	5580.7	5605.5	5751.9	5970.0	6011.5	5972.8	5768.5	5423.3	5086.4	4931.8	4942.8
45°	5923.1	5956.2	6146.8	6342.8	6439.5	6373.2	6135.7	5807.1	5415.0	5282.5	5230.0
47.5°	6237.9	6304.2	6489.2	6690.7	6839.9	6845.4	6552.7	6155.0	5740.8	5566.9	5564.1
50°	6450.5	6547.2	6729.4	6958.6	7176.7	7262.3	6969.6	6541.6	6097.1	5912.0	5892.7
52.5°	6566.5	6665.9	6848.1	7204.4	7447.4	7579.9	7441.8	6903.4	6514.0	6320.7	6290.3
55°	6425.7	6491.9	6790.2	7290.0	7665.5	7883.6	7792.5	7403.2	6928.2	6770.8	6798.4
57.5°	5826.4	5964.5	6331.8	6955.8	7660.0	8195.7	8187.4	7875.4	7405.9	7256.8	7262.3
60°	4796.5	4912.4	5365.3	6237.9	7350.7	8322.7	8615.4	8333.7	7941.6	7767.7	7762.1
62.5°	3385.4	3531.8	4056.4	5009.1	6439.5	8146.0	9106.9	8910.9	8466.3	8339.3	8386.2
65°	1894.3	1982.6	2468.6	3330.2	4906.9	7174.0	9195.3	9510.1	8999.2	8805.9	8814.2
67.5°	1013.4	1046.6	1273.0	1747.9	3001.6	5531.0	8303.4	9855.2	9576.4	9242.2	9189.8
70°	695.9	706.9	764.9	894.7	1419.3	3308.1	6262.7	9239.5	10009.9	9554.3	9642.6
72.5°	588.2	582.6	596.5	610.3	742.8	1480.1	3675.4	7110.5	9449.3	9278.1	9245.0
75°	510.8	508.1	513.6	499.8	516.4	651.7	1626.4	4432.0	6917.2	7720.7	7845.0
77.5°	422.5	425.2	428.0	414.2	408.7	430.8	654.4	1946.7	3404.7	3758.2	4053.7
80°	320.3	325.8	347.9	334.1	312.0	314.8	386.6	651.7	977.5	886.4	914.0
82.5°	218.1	220.9	267.9	251.3	234.7	212.6	248.5	336.9	381.1	289.9	254.0
85°	154.6	151.9	174.0	160.2	149.1	107.7	149.1	190.5	229.2	143.6	129.8
87.5°	35.9	35.9	71.8	58.0	55.2	44.2	58.0	74.6	99.4	63.5	58.0
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°	2623.3	2623.3	2623.3	2623.3	2623.3	2623.3	2623.3	2623.3	2623.3	2623.3
2.5°	2673.0	2648.1	2648.1	2642.6	2620.5	2615.0	2595.7	2601.2	2587.4	2573.6
5°	2766.9	2733.7	2733.7	2686.8	2642.6	2637.1	2615.0	2615.0	2592.9	2598.4
7.5°	2896.7	2866.3	2816.6	2775.2	2714.4	2689.6	2648.1	2642.6	2637.1	2626.0
10°	3051.3	3012.6	2962.9	2877.3	2827.6	2780.7	2739.3	2681.3	2667.5	2670.2
12.5°	3261.2	3200.4	3092.7	3018.2	2954.6	2893.9	2833.1	2747.5	2728.2	2736.5
15°	3410.3	3332.9	3225.3	3197.6	3112.0	3037.5	2938.1	2841.4	2808.3	2800.0
17.5°	3531.8	3468.3	3404.7	3363.3	3294.3	3203.2	3065.1	2954.6	2880.1	2871.8
20°	3631.2	3548.3	3534.5	3559.4	3473.8	3413.0	3244.6	3109.3	3009.9	2968.4
22.5°	3691.9	3639.5	3678.1	3700.2	3694.7	3592.5	3418.5	3261.2	3136.9	3098.2
25°	3758.2	3697.4	3835.5	3910.1	3929.4	3761.0	3625.6	3418.5	3297.0	3272.2
27.5°	3791.3	3813.4	3973.6	4131.0	4117.2	3987.4	3805.1	3620.1	3523.5	3479.3
30°	3888.0	3923.9	4166.9	4343.6	4346.4	4219.3	4081.3	3871.4	3763.7	3744.4
32.5°	4061.9	4106.1	4365.7	4553.5	4586.6	4490.0	4351.9	4222.1	4111.6	4067.5
35°	4194.5	4307.7	4600.4	4771.6	4860.0	4802.0	4724.7	4589.4	4473.4	4434.7
37.5°	4385.0	4542.4	4824.1	5056.0	5155.4	5149.9	5091.9	4945.6	4848.9	4815.8
40°	4658.4	4815.8	5072.6	5379.1	5564.1	5555.8	5522.7	5409.5	5265.9	5249.3
42.5°	4948.3	5078.1	5412.2	5762.9	6028.0	6000.4	5912.0	5779.5	5680.1	5658.0
45°	5230.0	5431.6	5740.8	6190.9	6389.8	6458.8	6353.9	6127.4	6014.2	6000.4
47.5°	5583.4	5743.6	6130.2	6533.3	6828.8	6839.9	6660.4	6450.5	6243.4	6287.6
50°	5898.2	6110.9	6503.0	6944.8	7298.2	7171.2	6942.0	6679.7	6530.6	6472.6
52.5°	6235.1	6494.7	6950.3	7400.4	7596.5	7469.4	7096.7	6804.0	6577.5	6552.7
55°	6726.6	6861.9	7458.4	7803.6	7867.1	7599.2	7049.7	6635.5	6342.8	6271.0
57.5°	7226.4	7383.8	7905.7	8204.0	8137.7	7527.4	6746.0	6105.3	5721.5	5619.3
60°	7731.8	7925.1	8364.1	8637.5	8295.1	7033.2	5887.2	5061.5	4614.2	4523.1
62.5°	8295.1	8546.4	8938.5	9035.1	7828.4	6055.6	4672.2	3653.3	3200.4	3048.5
65°	8794.9	9051.7	9534.9	8952.3	6837.1	4517.6	3020.9	2087.6	1753.5	1632.0
67.5°	9206.3	9496.3	9733.7	7922.3	5006.3	2645.4	1574.0	1099.0	974.8	930.6
70°	9532.2	10015.4	8905.3	5823.7	2860.8	1289.5	850.5	723.5	706.9	695.9
72.5°	9247.8	9184.2	6649.3	3360.6	1253.7	709.7	615.8	596.5	593.7	596.5
75°	7563.3	6746.0	3976.3	1460.8	629.6	513.6	510.8	502.6	516.4	516.4
77.5°	3669.8	3208.7	1662.3	626.8	414.2	403.2	417.0	417.0	417.0	417.0
80°	850.5	941.6	593.7	381.1	301.0	301.0	331.4	334.1	320.3	314.8
82.5°	289.9	386.6	325.8	240.2	198.8	223.7	251.3	256.8	212.6	215.4
85°	143.6	226.4	176.7	138.1	102.2	138.1	162.9	171.2	146.4	140.8
87.5°	66.3	99.4	66.3	46.9	35.9	49.7	46.9	38.7	22.1	22.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)