

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: P481462

Luminaire Tested: **IFLD-L-SA8A-830-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481462
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-830-U-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (128) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

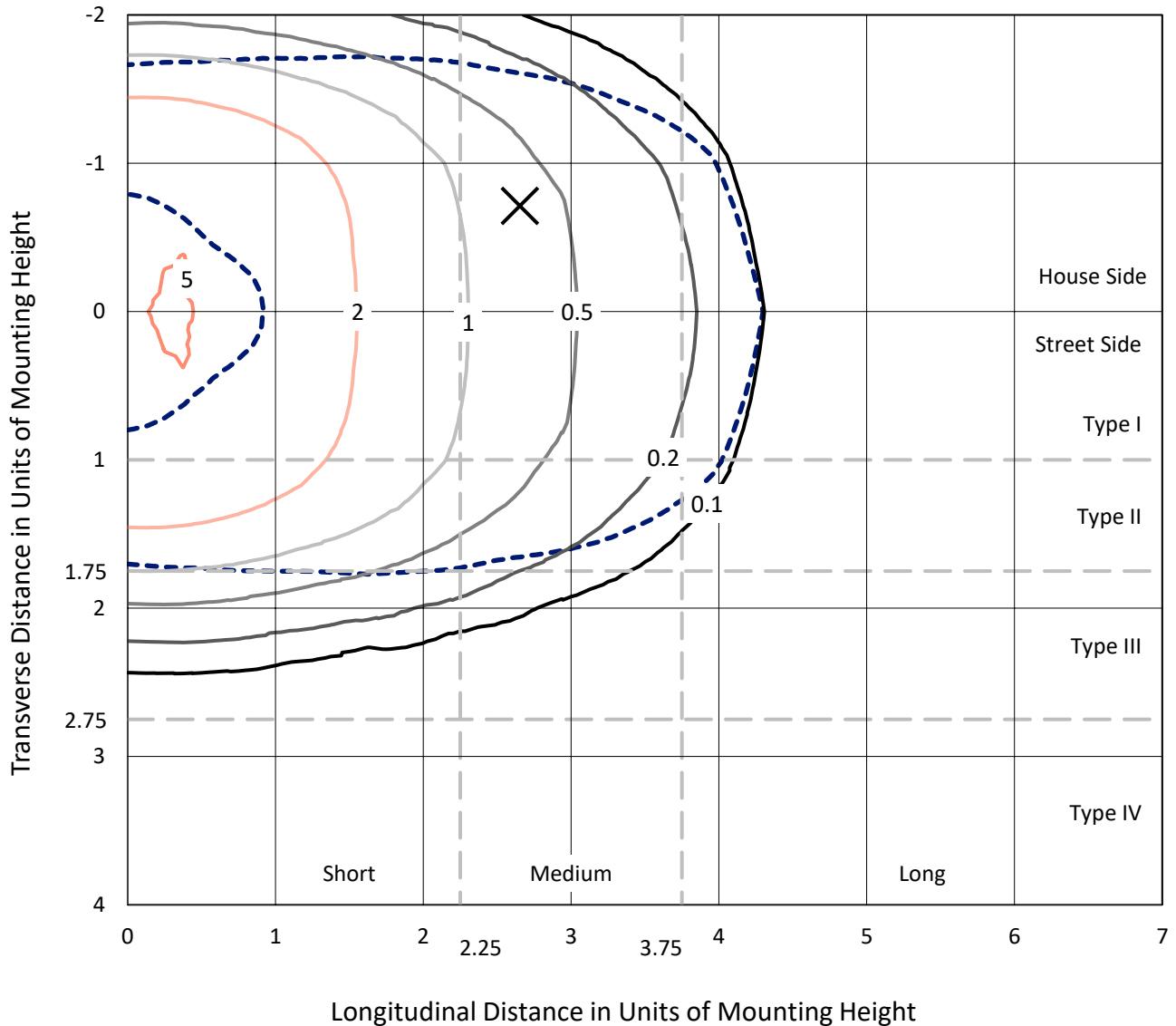
Lumens per Lamp: N/A
Luminaire Lumens: 28037.4 lumens
Efficiency: N/A
Efficacy: 113.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

Input Watts (W): 247.8
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

REPORT NUMBER: P481462
 CATALOG NUMBER: IFLD-L-SA8A-830-U-RW

Iso-Footcandle Lines of Horizontal Illumination

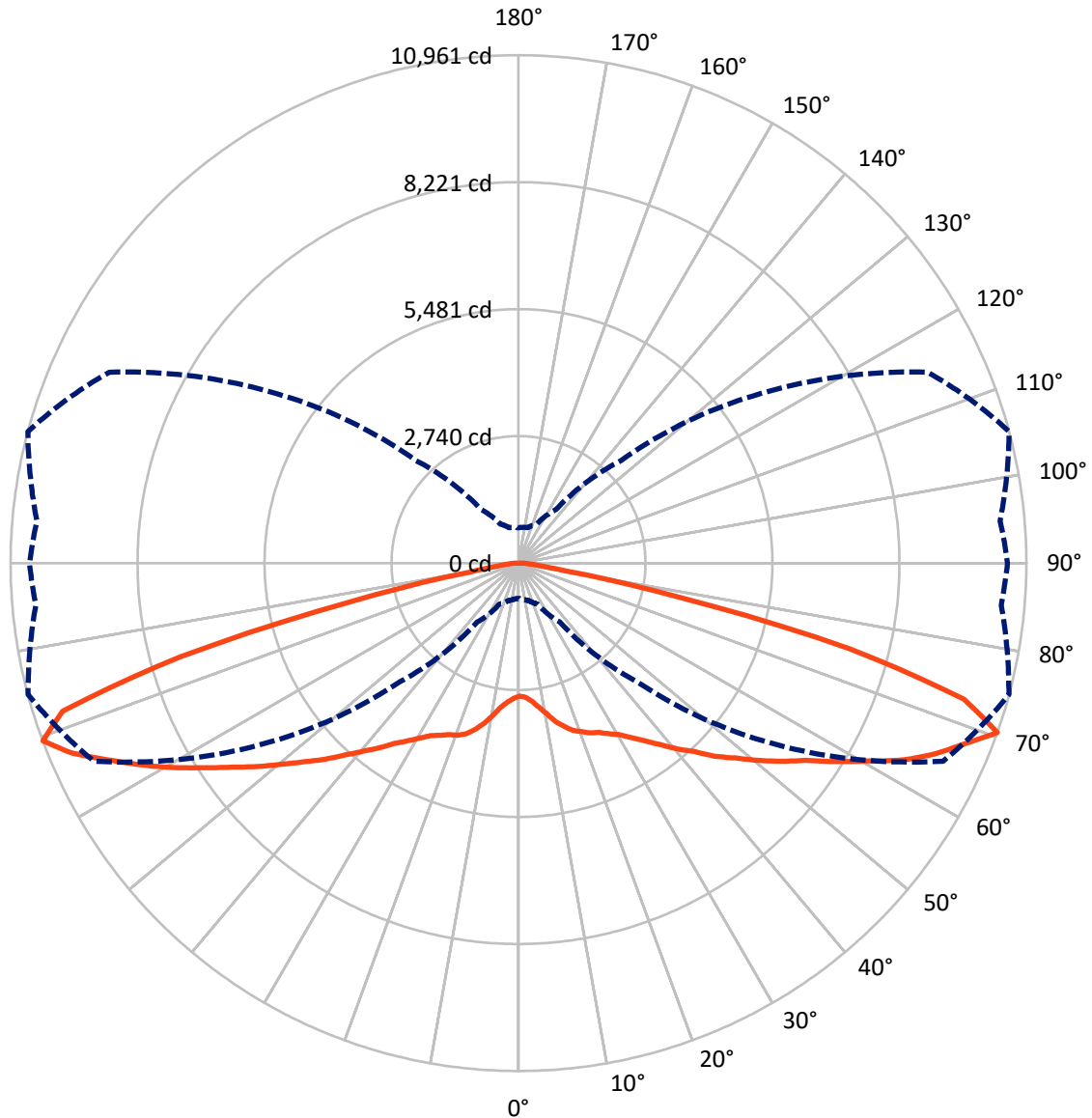
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type II - Short - N/A

REPORT NUMBER: P481462
CATALOG NUMBER: IFLD-L-SA8A-830-U-RW

Luminous Intensity Polar Plot



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

REPORT NUMBER: P481462

CATALOG NUMBER: IFLD-L-SA8A-830-U-RW

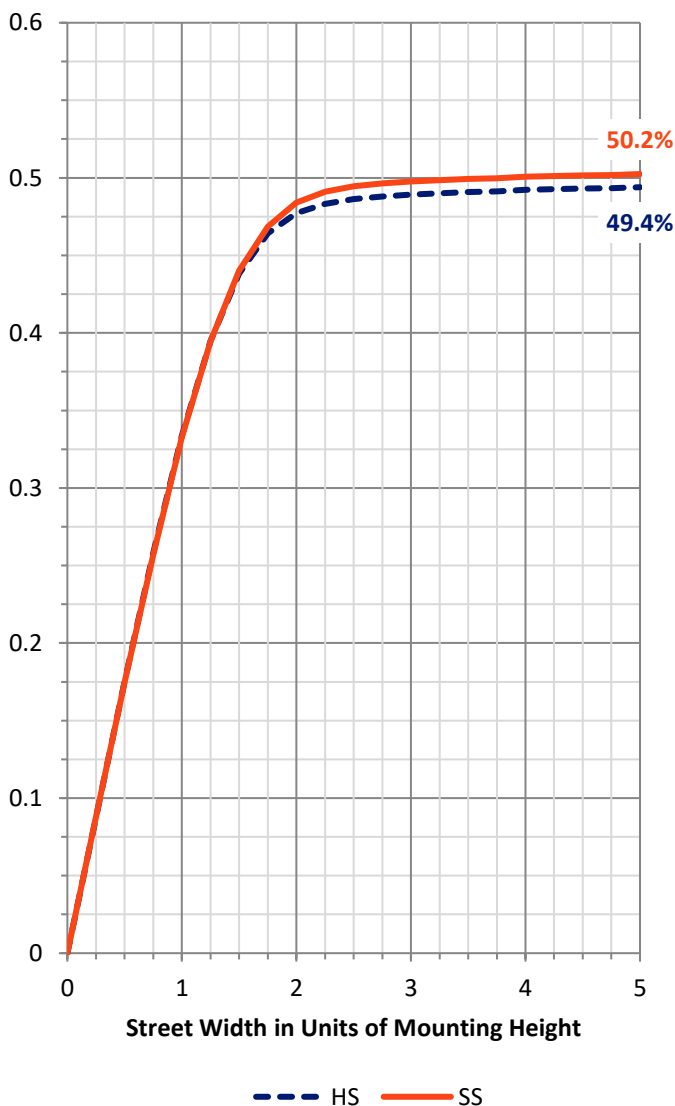
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13918.9	0.0	13918.9
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	14118.4	0.0	14118.4
	% Fixture	50.4	0.0	50.4
Total	Lumens	28037.4	0.0	28037.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	285.8	1.0
10°-20°	973.0	3.5
20°-30°	1884.0	6.7
30°-40°	3186.7	11.4
40°-50°	5083.7	18.1
50°-60°	6958.5	24.8
60°-70°	6558.9	23.4
70°-80°	2889.4	10.3
80°-90°	217.4	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°	28037.4	100.0
0°-180°	28037.4	100.0

Coefficient of Utilization

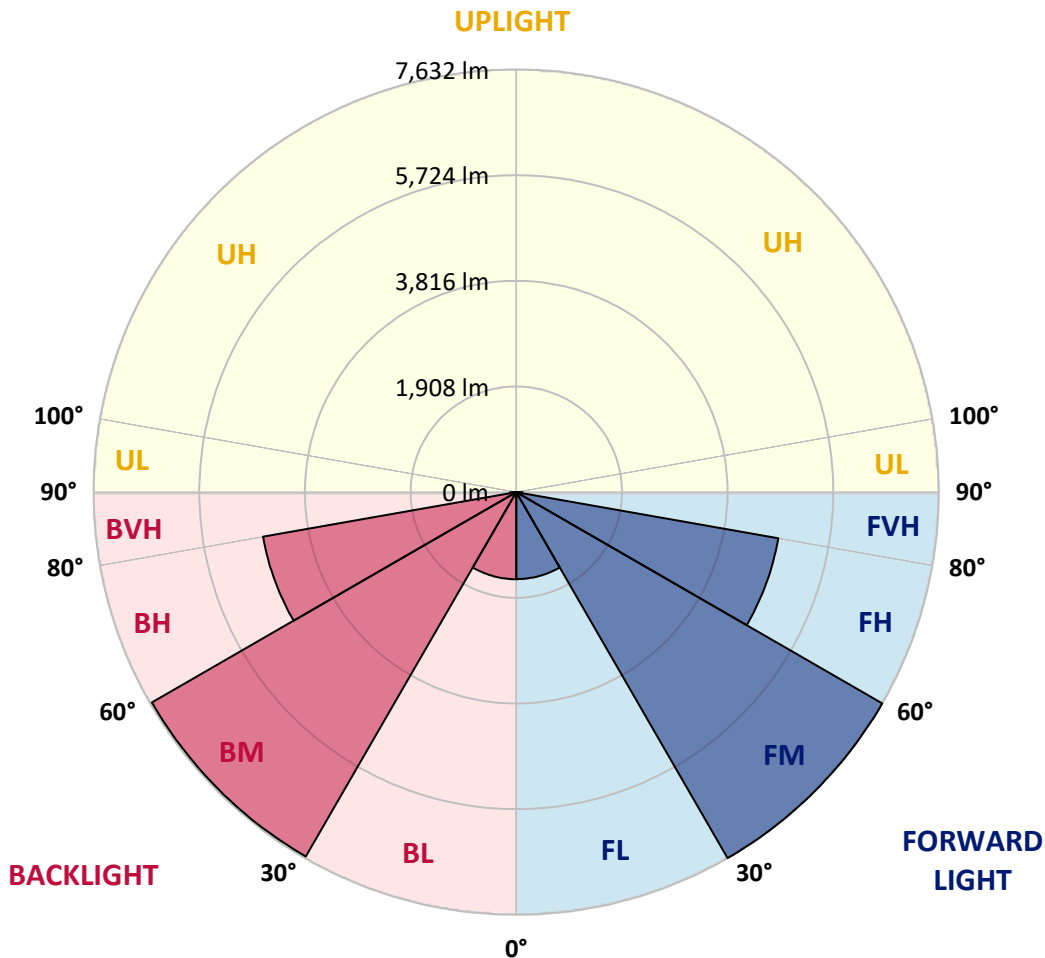


REPORT NUMBER: P481462
 CATALOG NUMBER: IFLD-L-SA8A-830-U-RW

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1570.5	5.6			
FM (30°-60°)	7631.5	27.2			
FH (60°-80°)	4805.3	17.1			G2/5000
FVH (80°-90°)	111.1	0.4			G2/225
BL (0°-30°)	1572.3	5.6	B3/2500		
BM (30°-60°)	7597.4	27.1	B4/8500		
BH (60°-80°)	4642.9	16.6	B4/5000		G4/5000
BVH (80°-90°)	106.3	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





REPORT NUMBER: P481462

CATALOG NUMBER: IFLD-L-SA8A-830-U-RW

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2871.0	2871.0	2871.0	2871.0	2871.0	2871.0	2871.0	2871.0	2871.0	2871.0	2871.0
2.5°	2852.9	2852.9	2849.8	2865.0	2880.1	2886.1	2898.2	2901.2	2919.4	2904.2	2934.5
5°	2843.8	2840.8	2865.0	2901.2	2901.2	2940.5	2964.7	2997.9	3007.0	3025.1	3031.2
7.5°	2907.3	2901.2	2889.1	2928.4	2961.7	3022.1	3055.3	3112.8	3133.9	3158.1	3185.3
10°	2946.5	2946.5	2934.5	3004.0	3034.2	3115.8	3188.3	3245.7	3327.3	3354.5	3357.6
12.5°	2952.6	2961.7	2997.9	3088.6	3173.2	3279.0	3333.4	3442.2	3523.8	3575.1	3593.3
15°	3043.3	3025.1	3064.4	3188.3	3312.2	3405.9	3502.6	3581.2	3699.1	3765.5	3807.8
17.5°	3124.9	3106.7	3179.3	3327.3	3454.3	3599.3	3683.9	3768.6	3853.2	3913.6	3916.6
20°	3254.8	3269.9	3333.4	3493.6	3659.8	3786.7	3883.4	3898.5	3940.8	4028.5	4013.4
22.5°	3415.0	3402.9	3535.9	3711.1	3892.5	3998.2	4052.6	4013.4	3992.2	4085.9	4107.0
25°	3575.1	3611.4	3732.3	3895.5	4113.1	4255.1	4270.2	4161.4	4082.9	4116.1	4107.0
27.5°	3819.9	3826.0	3952.9	4146.3	4366.9	4490.8	4481.8	4327.7	4176.5	4179.6	4185.6
30°	4134.2	4104.0	4243.0	4418.3	4635.9	4747.7	4762.8	4542.2	4339.7	4279.3	4294.4
32.5°	4436.4	4472.7	4593.6	4793.1	4953.2	5016.7	4983.4	4787.0	4524.1	4442.5	4451.6
35°	4823.3	4817.2	4983.4	5152.7	5273.6	5285.7	5258.5	4971.4	4723.5	4617.8	4575.5
37.5°	5237.3	5291.7	5400.5	5539.5	5666.4	5672.5	5524.4	5294.7	4989.5	4814.2	4865.6
40°	5699.7	5760.1	5838.7	6041.2	6134.9	6038.2	5887.1	5575.8	5258.5	5104.3	5128.5
42.5°	6107.7	6134.9	6295.0	6533.8	6579.1	6536.8	6313.2	5935.4	5566.7	5397.5	5409.6
45°	6482.4	6518.7	6727.2	6941.8	7047.5	6975.0	6715.1	6355.5	5926.3	5781.3	5723.9
47.5°	6826.9	6899.5	7101.9	7322.6	7485.7	7491.8	7171.4	6736.3	6283.0	6092.6	6089.5
50°	7059.6	7165.4	7364.9	7615.7	7854.4	7948.1	7627.8	7159.4	6672.8	6470.3	6449.2
52.5°	7186.6	7295.4	7494.8	7884.7	8150.6	8295.7	8144.6	7555.3	7129.1	6917.6	6884.3
55°	7032.4	7105.0	7431.3	7978.3	8389.4	8628.1	8528.4	8102.3	7582.5	7410.2	7440.4
57.5°	6376.6	6527.7	6929.7	7612.7	8383.3	8969.6	8960.5	8619.0	8105.3	7942.1	7948.1
60°	5249.4	5376.3	5871.9	6826.9	8044.8	9108.6	9429.0	9120.7	8691.6	8501.2	8495.1
62.5°	3705.1	3865.3	4439.5	5482.1	7047.5	8915.2	9966.9	9752.3	9265.8	9126.7	9178.1
65°	2073.2	2169.9	2701.8	3644.7	5370.3	7851.4	10063.6	10408.1	9849.0	9637.5	9646.6
67.5°	1109.1	1145.4	1393.2	1913.0	3285.0	6053.3	9087.5	10785.9	10480.7	10115.0	10057.6
70°	761.6	773.7	837.1	979.2	1553.4	3620.5	6854.1	10112.0	10955.1	10456.5	10553.2
72.5°	643.7	637.7	652.8	667.9	812.9	1619.8	4022.4	7781.9	10341.6	10154.3	10118.0
75°	559.1	556.1	562.1	547.0	565.1	713.2	1780.0	4850.5	7570.4	8449.8	8585.8
77.5°	462.4	465.4	468.4	453.3	447.3	471.4	716.2	2130.6	3726.3	4113.1	4436.4
80°	350.6	356.6	380.8	365.7	341.5	344.5	423.1	713.2	1069.8	970.1	1000.3
82.5°	238.7	241.8	293.1	275.0	256.9	232.7	272.0	368.7	417.1	317.3	278.0
85°	169.2	166.2	190.4	175.3	163.2	117.9	163.2	208.5	250.8	157.1	142.0
87.5°	39.3	39.3	78.6	63.5	60.4	48.4	63.5	81.6	108.8	69.5	63.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P481462
 CATALOG NUMBER: IFLD-L-SA8A-830-U-RW

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2871.0	2871.0	2871.0	2871.0	2871.0	2871.0	2871.0	2871.0	2871.0	2871.0
2.5°	2925.4	2898.2	2898.2	2892.2	2868.0	2861.9	2840.8	2846.8	2831.7	2816.6
5°	3028.1	2991.9	2991.9	2940.5	2892.2	2886.1	2861.9	2861.9	2837.8	2843.8
7.5°	3170.2	3136.9	3082.5	3037.2	2970.7	2943.5	2898.2	2892.2	2886.1	2874.0
10°	3339.4	3297.1	3242.7	3149.0	3094.6	3043.3	2997.9	2934.5	2919.4	2922.4
12.5°	3569.1	3502.6	3384.8	3303.2	3233.6	3167.2	3100.7	3007.0	2985.8	2994.9
15°	3732.3	3647.7	3529.8	3499.6	3405.9	3324.3	3215.5	3109.7	3073.5	3064.4
17.5°	3865.3	3795.8	3726.3	3680.9	3605.4	3505.6	3354.5	3233.6	3152.1	3143.0
20°	3974.1	3883.4	3868.3	3895.5	3801.8	3735.3	3551.0	3402.9	3294.1	3248.8
22.5°	4040.6	3983.1	4025.4	4049.6	4043.6	3931.8	3741.4	3569.1	3433.1	3390.8
25°	4113.1	4046.6	4197.7	4279.3	4300.5	4116.1	3968.0	3741.4	3608.4	3581.2
27.5°	4149.3	4173.5	4348.8	4521.1	4506.0	4363.9	4164.5	3962.0	3856.2	3807.8
30°	4255.1	4294.4	4560.4	4753.8	4756.8	4617.8	4466.7	4237.0	4119.1	4098.0
32.5°	4445.5	4493.9	4777.9	4983.4	5019.7	4913.9	4762.8	4620.8	4499.9	4451.6
35°	4590.6	4714.5	5034.8	5222.2	5318.9	5255.4	5170.8	5022.7	4895.8	4853.5
37.5°	4799.1	4971.4	5279.6	5533.5	5642.3	5636.2	5572.8	5412.6	5306.8	5270.5
40°	5098.3	5270.5	5551.6	5887.1	6089.5	6080.5	6044.2	5920.3	5763.1	5745.0
42.5°	5415.6	5557.6	5923.3	6307.1	6597.2	6567.0	6470.3	6325.3	6216.5	6192.3
45°	5723.9	5944.5	6283.0	6775.6	6993.1	7068.7	6953.9	6706.0	6582.1	6567.0
47.5°	6110.7	6286.0	6709.1	7150.3	7473.7	7485.7	7289.3	7059.6	6833.0	6881.3
50°	6455.2	6687.9	7117.1	7600.6	7987.4	7848.4	7597.6	7310.5	7147.3	7083.8
52.5°	6823.9	7108.0	7606.6	8099.2	8313.8	8174.8	7766.8	7446.5	7198.6	7171.4
55°	7361.8	7509.9	8162.7	8540.5	8610.0	8316.8	7715.4	7262.1	6941.8	6863.2
57.5°	7908.8	8081.1	8652.3	8978.7	8906.1	8238.3	7383.0	6681.9	6261.8	6150.0
60°	8461.9	8673.4	9153.9	9453.1	9078.4	7697.3	6443.1	5539.5	5049.9	4950.2
62.5°	9078.4	9353.4	9782.5	9888.3	8567.7	6627.5	5113.4	3998.2	3502.6	3336.4
65°	9625.4	9906.5	10435.3	9797.7	7482.7	4944.2	3306.2	2284.7	1919.0	1786.1
67.5°	10075.7	10393.0	10652.9	8670.4	5479.1	2895.2	1722.6	1202.8	1066.8	1018.4
70°	10432.3	10961.2	9746.3	6373.6	3130.9	1411.3	930.8	791.8	773.7	761.6
72.5°	10121.0	10051.5	7277.2	3677.9	1372.0	776.7	673.9	652.8	649.8	652.8
75°	8277.5	7383.0	4351.8	1598.7	689.0	562.1	559.1	550.0	565.1	565.1
77.5°	4016.4	3511.7	1819.3	686.0	453.3	441.2	456.3	456.3	456.3	456.3
80°	930.8	1030.5	649.8	417.1	329.4	329.4	362.7	365.7	350.6	344.5
82.5°	317.3	423.1	356.6	262.9	217.6	244.8	275.0	281.1	232.7	235.7
85°	157.1	247.8	193.4	151.1	111.8	151.1	178.3	187.4	160.2	154.1
87.5°	72.5	108.8	72.5	51.4	39.3	54.4	51.4	42.3	24.2	24.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)