

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: P479469

Luminaire Tested: **IFLD-L-SA7B-827-U-5MQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479469
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-827-U-5MQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens
Light Source: (112) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

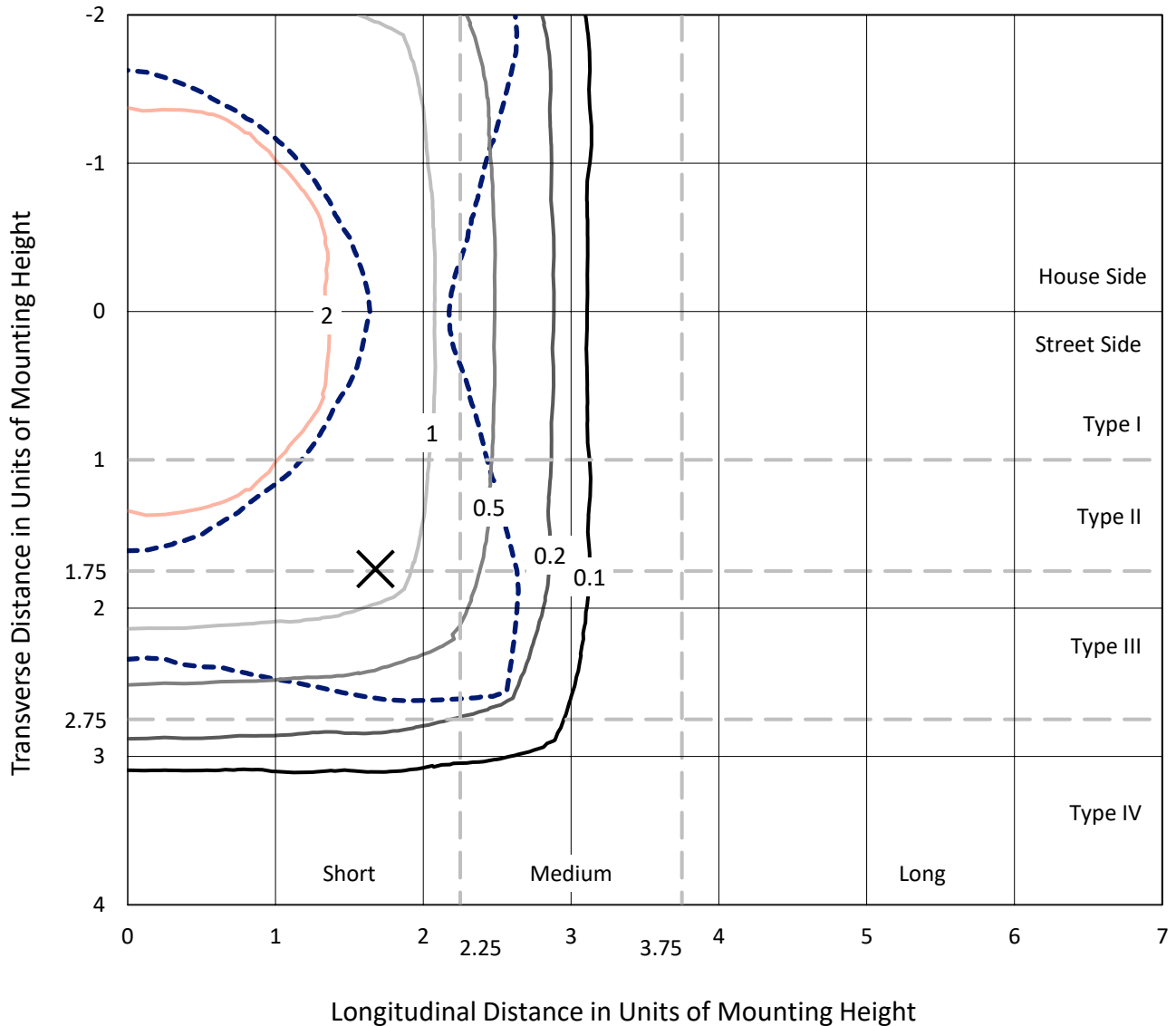
Lumens per Lamp: N/A
Luminaire Lumens: 26424.8 lumens
Efficiency: N/A
Efficacy: 94.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

Input Watts (W): 281
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: P479469
 CATALOG NUMBER: IFLD-L-SA7B-827-U-5MQ

Iso-Footcandle Lines of Horizontal Illumination

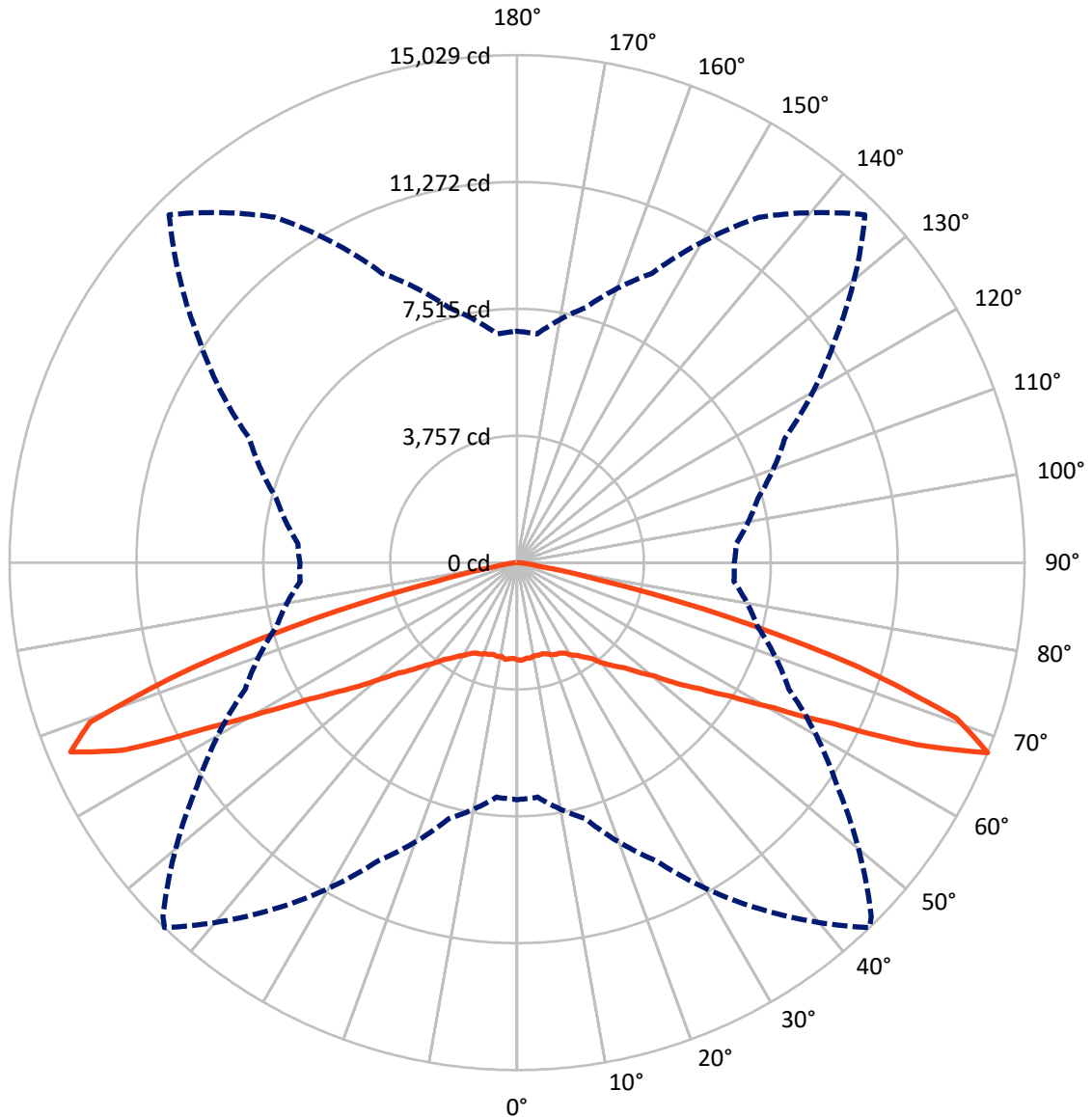
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
 Type V - Short - N/A

REPORT NUMBER: P479469
CATALOG NUMBER: IFLD-L-SA7B-827-U-5MQ

Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P479469

CATALOG NUMBER: IFLD-L-SA7B-827-U-5MQ

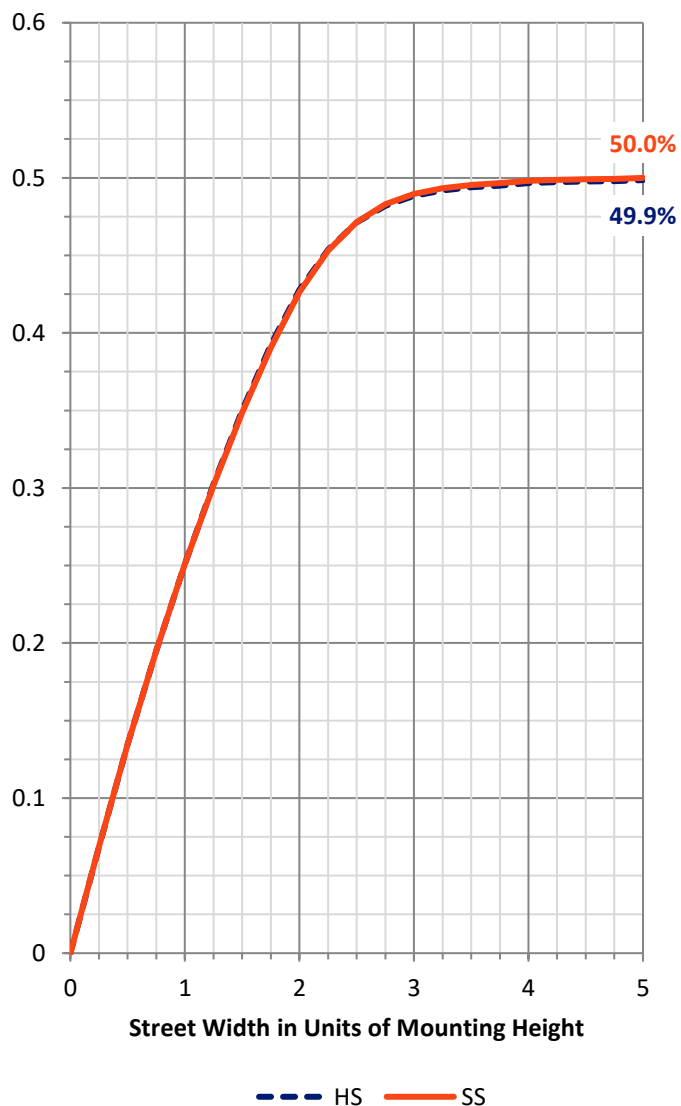
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13178.5	0.0	13178.5
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	13246.2	0.0	13246.2
	% Fixture	50.1	0.0	50.1
Total	Lumens	26424.8	0.0	26424.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	273.1	1.0
10°-20°	798.0	3.0
20°-30°	1357.0	5.1
30°-40°	2151.6	8.1
40°-50°	3508.4	13.3
50°-60°	5991.8	22.7
60°-70°	9113.5	34.5
70°-80°	3071.8	11.6
80°-90°	159.5	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°	26424.8	100.0
0°-180°	26424.8	100.0

Coefficient of Utilization



REPORT NUMBER: P479469

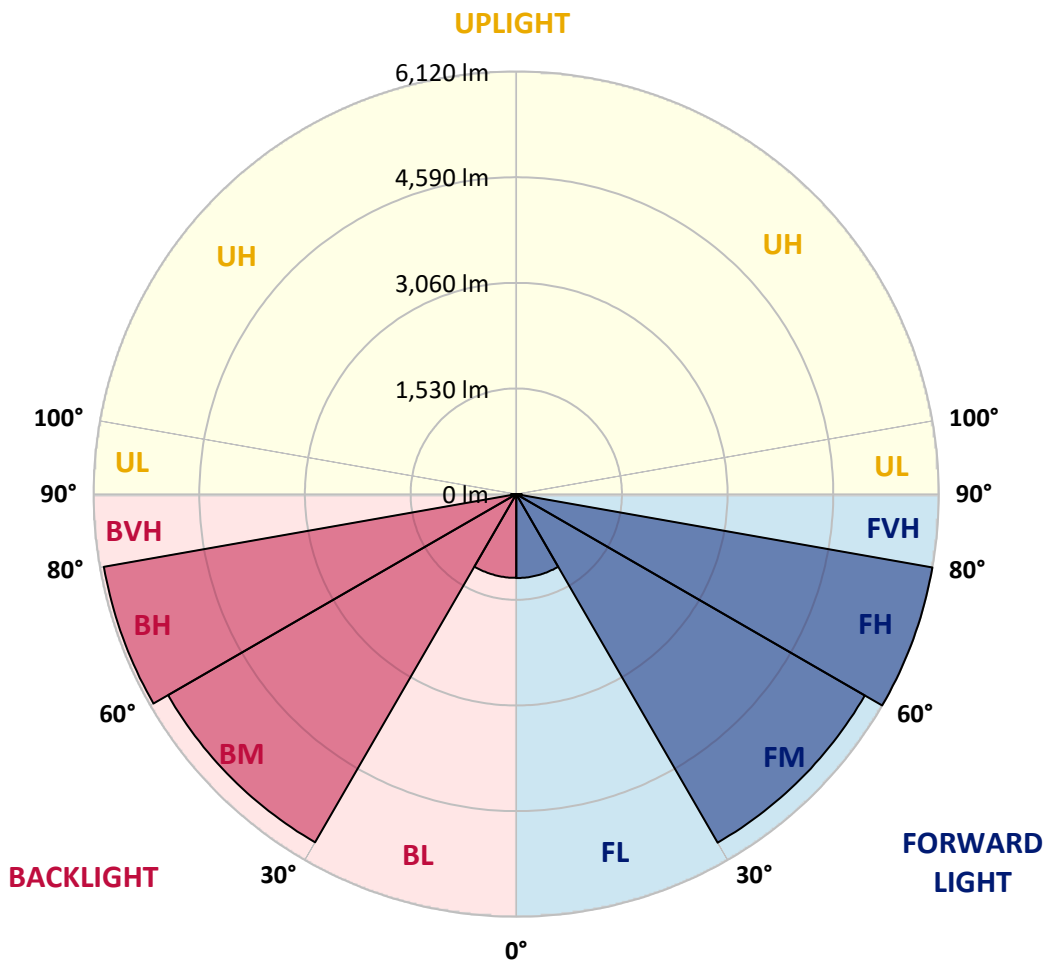
CATALOG NUMBER: IFLD-L-SA7B-827-U-5MQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1215.3	4.6			
FM (30°-60°)	5829.0	22.1			
FH (60°-80°)	6120.3	23.2			G3/7500
FVH (80°-90°)	81.6	0.3			G1/100
BL (0°-30°)	1212.8	4.6	B3/2500		
BM (30°-60°)	5822.8	22.0	B4/8500		
BH (60°-80°)	6065.1	23.0	B5		G3/7500
BVH (80°-90°)	77.9	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short





REPORT NUMBER: P479469
 CATALOG NUMBER: IFLD-L-SA7B-827-U-5MQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	2886.4	2886.4	2886.4	2886.4	2886.4	2886.4	2886.4	2886.4	2886.4	2886.4	2886.4
2.5°	2820.1	2853.3	2877.4	2874.4	2883.4	2892.5	2880.4	2898.5	2886.4	2907.6	2919.6
5°	2874.4	2865.3	2868.4	2850.3	2892.5	2844.2	2844.2	2868.4	2898.5	2862.3	2883.4
7.5°	2841.2	2835.2	2820.1	2847.2	2856.3	2856.3	2880.4	2835.2	2886.4	2898.5	2901.5
10°	2805.0	2771.8	2817.1	2844.2	2850.3	2802.0	2823.1	2835.2	2820.1	2835.2	2844.2
12.5°	2774.9	2792.9	2792.9	2792.9	2783.9	2817.1	2838.2	2835.2	2805.0	2832.2	2783.9
15°	2771.8	2762.8	2789.9	2814.1	2799.0	2805.0	2814.1	2841.2	2783.9	2796.0	2796.0
17.5°	2768.8	2780.9	2789.9	2786.9	2838.2	2838.2	2829.1	2811.0	2856.3	2832.2	2799.0
20°	2780.9	2771.8	2796.0	2805.0	2841.2	2913.6	2886.4	2871.4	2847.2	2817.1	2817.1
22.5°	2796.0	2789.9	2823.1	2862.3	2931.7	2949.8	2946.8	2928.7	2886.4	2850.3	2844.2
25°	2850.3	2796.0	2832.2	2907.6	2931.7	2967.9	2992.0	2967.9	2910.6	2919.6	2865.3
27.5°	2931.7	2922.6	2970.9	3022.2	3001.1	3034.2	3013.1	3031.2	3034.2	2989.0	2934.7
30°	3028.2	3001.1	3031.2	3130.8	3139.8	3176.0	3139.8	3091.5	3106.6	3067.4	3040.3
32.5°	3166.9	3157.9	3215.2	3281.6	3293.6	3275.5	3257.4	3284.6	3221.2	3191.1	3142.8
35°	3257.4	3296.6	3366.0	3417.3	3456.5	3438.4	3447.5	3420.3	3435.4	3372.0	3350.9
37.5°	3525.9	3510.8	3525.9	3613.3	3622.4	3613.3	3622.4	3652.5	3631.4	3577.1	3522.9
40°	3779.2	3755.1	3791.3	3890.8	3884.8	3915.0	3854.6	3887.8	3887.8	3785.3	3764.1
42.5°	3969.2	4050.7	4092.9	4174.3	4204.5	4177.4	4165.3	4171.3	4237.7	4117.0	4071.8
45°	4361.3	4358.3	4485.0	4530.2	4445.8	4439.8	4415.6	4488.0	4533.3	4463.9	4445.8
47.5°	4786.6	4807.7	4880.1	4898.2	4949.5	4856.0	4856.0	4865.0	5024.9	4862.0	4777.6
50°	5169.7	5196.8	5341.6	5483.3	5386.8	5287.3	5326.5	5374.8	5462.2	5308.4	5236.0
52.5°	5634.2	5781.9	5878.5	5953.9	6023.2	5953.9	5863.4	5917.7	6089.6	5884.5	5794.0
55°	6303.7	6421.4	6511.9	6650.6	6707.9	6614.4	6605.4	6599.3	6695.8	6478.7	6355.0
57.5°	7051.7	7003.5	7148.3	7362.4	7570.5	7480.0	7452.9	7458.9	7483.0	7175.4	7081.9
60°	7980.7	8035.0	8206.9	8393.9	8614.1	8740.8	8562.8	8460.3	8481.4	8062.1	7917.4
62.5°	8511.6	8632.2	9021.3	9663.7	10107.1	10502.2	10529.4	9862.8	9416.4	8602.0	7986.7
65°	8255.2	8237.1	8970.0	10158.4	11838.4	12987.5	12815.6	11198.9	9639.6	8345.7	7519.2
67.5°	7021.6	6973.3	7860.1	9745.2	12520.0	15029.4	14833.4	11576.0	8885.6	7383.5	6448.5
70°	4524.2	4512.1	5474.3	7428.8	11177.8	13798.8	13871.2	10514.3	7232.7	5407.9	4482.0
72.5°	1643.8	1743.3	2301.3	3993.4	7591.6	10556.5	10601.7	7784.7	4159.3	2500.4	1842.9
75°	606.2	624.3	726.9	1296.9	3459.5	6481.7	6650.6	3776.2	1477.9	814.4	663.6
77.5°	349.9	352.9	389.1	482.6	1025.5	2530.5	2633.1	1146.1	573.1	434.3	401.1
80°	238.3	235.3	274.5	313.7	410.2	717.8	763.1	479.6	361.9	301.6	253.4
82.5°	138.7	147.8	202.1	223.2	250.3	316.7	322.7	298.6	271.5	223.2	165.9
85°	84.5	69.4	111.6	123.7	144.8	141.8	141.8	162.9	174.9	156.8	93.5
87.5°	21.1	21.1	27.1	30.2	39.2	30.2	33.2	63.3	84.5	78.4	48.3
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: P479469
 CATALOG NUMBER: IFLD-L-SA7B-827-U-5MQ

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2886.4	2886.4	2886.4	2886.4	2886.4	2886.4	2886.4	2886.4	2886.4	2886.4	2886.4
2.5°	2892.5	2883.4	2889.5	2922.6	2901.5	2838.2	2853.3	2886.4	2859.3	2844.2	2841.2
5°	2880.4	2898.5	2877.4	2883.4	2904.5	2853.3	2862.3	2904.5	2886.4	2892.5	2859.3
7.5°	2883.4	2892.5	2874.4	2847.2	2847.2	2889.5	2865.3	2871.4	2844.2	2889.5	2829.1
10°	2865.3	2841.2	2820.1	2835.2	2829.1	2817.1	2808.0	2826.1	2799.0	2838.2	2796.0
12.5°	2811.0	2817.1	2811.0	2805.0	2817.1	2847.2	2799.0	2805.0	2762.8	2768.8	2789.9
15°	2789.9	2808.0	2802.0	2835.2	2850.3	2805.0	2841.2	2805.0	2771.8	2753.7	2786.9
17.5°	2799.0	2826.1	2817.1	2841.2	2814.1	2847.2	2853.3	2838.2	2799.0	2783.9	2799.0
20°	2808.0	2799.0	2811.0	2853.3	2892.5	2859.3	2859.3	2850.3	2814.1	2792.9	2792.9
22.5°	2829.1	2814.1	2832.2	2865.3	2877.4	2928.7	2883.4	2862.3	2802.0	2747.7	2799.0
25°	2871.4	2880.4	2892.5	2880.4	2946.8	2940.7	2934.7	2919.6	2826.1	2829.1	2820.1
27.5°	2952.8	2901.5	2916.6	2989.0	2998.0	3022.2	2992.0	3019.2	2919.6	2922.6	2862.3
30°	3052.3	2998.0	3046.3	3109.6	3106.6	3151.9	3136.8	3142.8	3073.4	3034.2	2952.8
32.5°	3160.9	3154.9	3185.0	3224.3	3239.3	3263.5	3260.4	3260.4	3218.2	3115.7	3130.8
35°	3281.6	3323.8	3360.0	3402.2	3408.2	3438.4	3396.2	3402.2	3360.0	3284.6	3308.7
37.5°	3519.8	3516.8	3556.0	3607.3	3613.3	3589.2	3622.4	3607.3	3550.0	3498.7	3459.5
40°	3797.3	3737.0	3773.2	3893.8	3902.9	3860.7	3857.6	3854.6	3812.4	3700.8	3676.7
42.5°	4038.6	4117.0	4111.0	4150.2	4123.1	4102.0	4177.4	4135.1	4102.0	3984.3	3963.2
45°	4349.3	4373.4	4451.8	4578.5	4448.8	4448.8	4500.1	4466.9	4448.8	4361.3	4279.9
47.5°	4735.3	4756.5	4913.3	4922.3	4837.9	4780.6	4940.4	4946.5	4871.1	4804.7	4705.2
50°	5187.8	5196.8	5338.6	5483.3	5389.8	5281.3	5444.1	5507.5	5338.6	5248.1	5124.4
52.5°	5685.4	5658.3	5775.9	6047.4	5956.9	5923.7	6098.6	6113.7	5884.5	5742.7	5775.9
55°	6258.5	6222.3	6542.0	6726.0	6668.7	6608.4	6686.8	6723.0	6539.0	6306.8	6388.2
57.5°	7000.5	7018.6	7178.4	7359.4	7452.9	7468.0	7504.2	7468.0	7281.0	7045.7	6970.3
60°	7742.4	7796.7	8107.4	8448.2	8478.4	8743.8	8695.5	8514.6	8249.1	7914.4	7929.4
62.5°	8016.9	7971.7	8472.3	9304.8	10013.6	10499.2	10285.0	9642.6	9027.3	8418.1	8463.3
65°	7465.0	7576.5	8258.2	9561.2	11099.4	13020.7	11880.6	10104.1	8861.4	8074.2	7986.7
67.5°	6433.4	6517.9	7383.5	8758.9	11488.5	14571.0	12483.8	9452.6	7814.8	6795.4	6849.7
70°	4482.0	4524.2	5371.7	7175.4	10417.8	13750.6	11262.3	7259.9	5395.9	4301.0	4361.3
72.5°	1803.7	1906.2	2464.2	4322.1	7691.2	10447.9	7582.6	3809.4	2238.0	1664.9	1511.1
75°	666.6	669.6	787.2	1487.0	3652.5	6566.1	3420.3	1224.6	714.8	585.1	558.0
77.5°	386.1	383.1	410.2	536.9	1058.7	2563.7	971.2	479.6	389.1	349.9	334.8
80°	241.3	238.3	280.5	355.9	464.5	702.8	410.2	298.6	262.4	226.2	226.2
82.5°	153.8	156.8	220.2	262.4	283.5	310.7	238.3	211.1	196.0	129.7	126.7
85°	99.5	90.5	153.8	174.9	156.8	138.7	132.7	111.6	102.5	63.3	69.4
87.5°	45.2	48.3	78.4	87.5	57.3	33.2	33.2	24.1	24.1	15.1	15.1
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)