

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: P481417

Luminaire Tested: **IFLD-M-SA4E-827-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481417
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4E-827-U-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (64) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

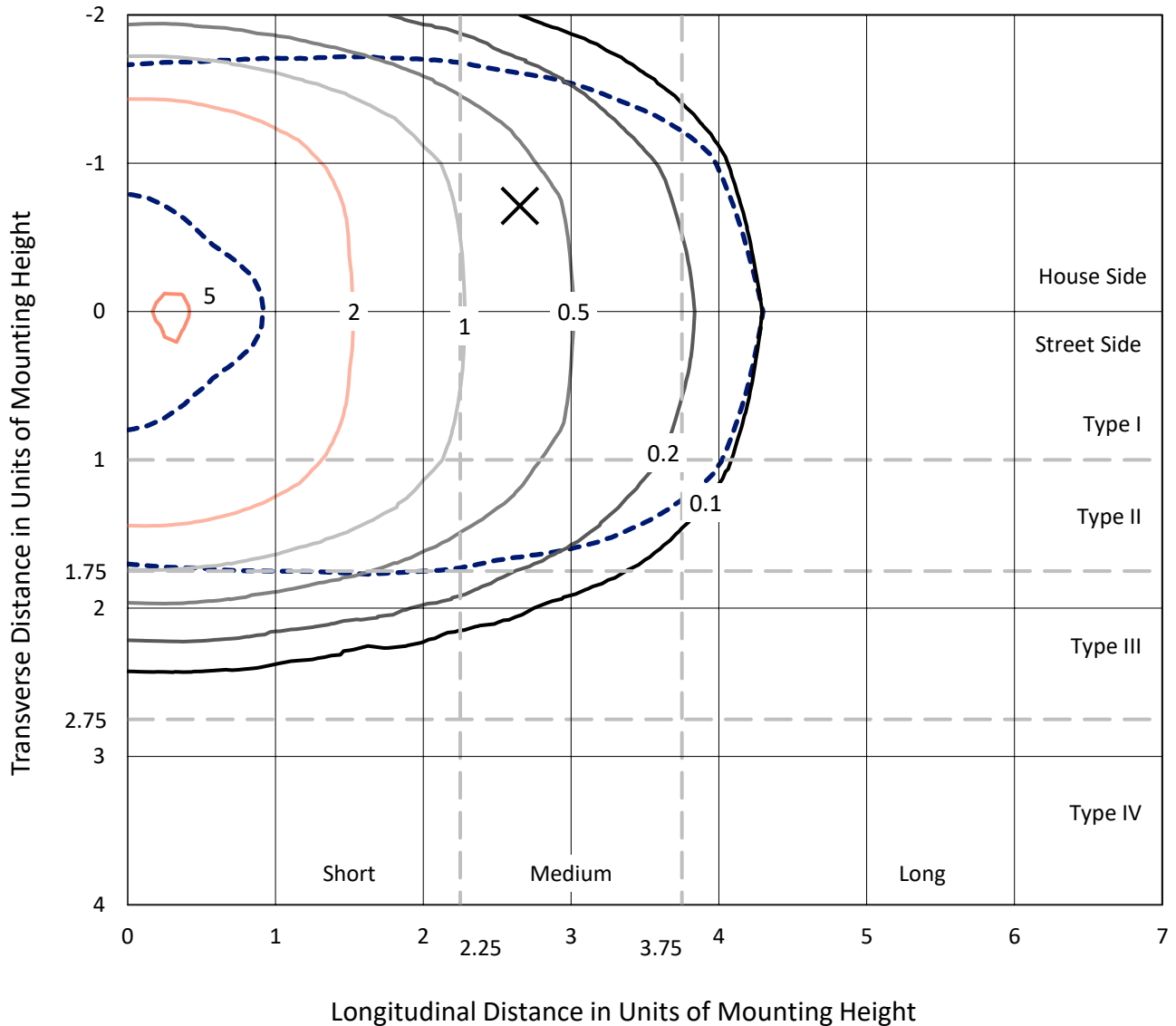
Lumens per Lamp: N/A
Luminaire Lumens: 27413.1 lumens
Efficiency: N/A
Efficacy: 87.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

Input Watts (W): 314.8
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

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Iso-Footcandle Lines of Horizontal Illumination

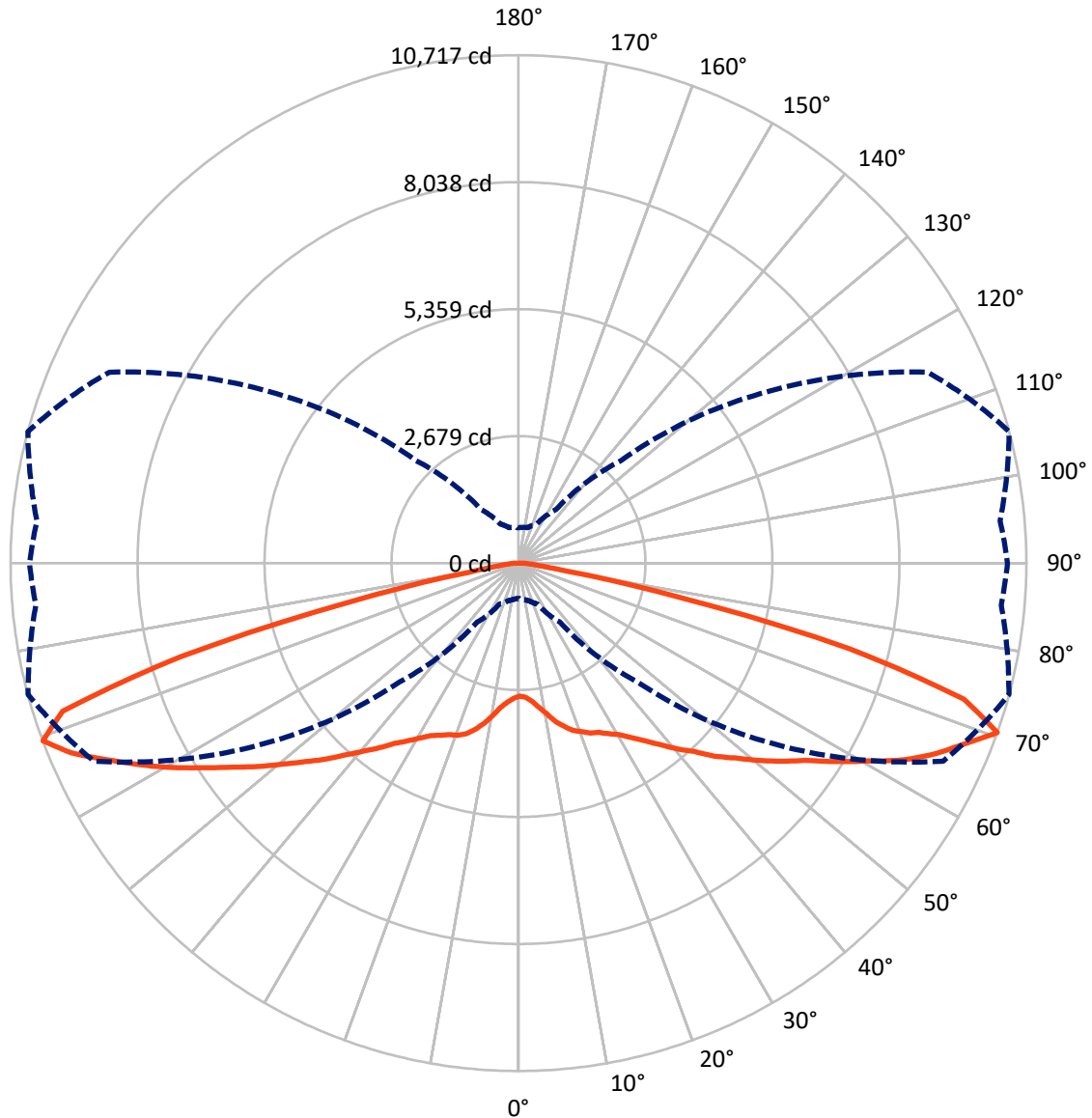
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 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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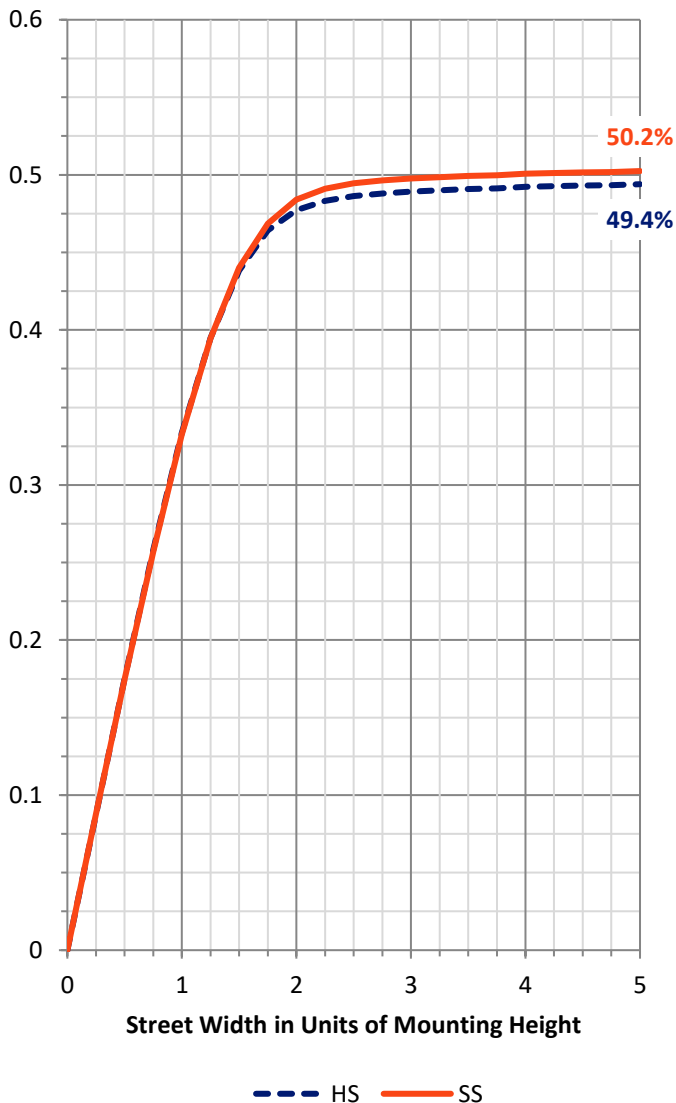
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13609.1	0.0	13609.1
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	13804.1	0.0	13804.1
	% Fixture	50.4	0.0	50.4
Total	Lumens	27413.1	0.0	27413.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	279.4	1.0
10°-20°	951.3	3.5
20°-30°	1842.1	6.7
30°-40°	3115.7	11.4
40°-50°	4970.5	18.1
50°-60°	6803.6	24.8
60°-70°	6412.8	23.4
70°-80°	2825.0	10.3
80°-90°	212.6	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°	27413.1	100.0
0°-180°	27413.1	100.0

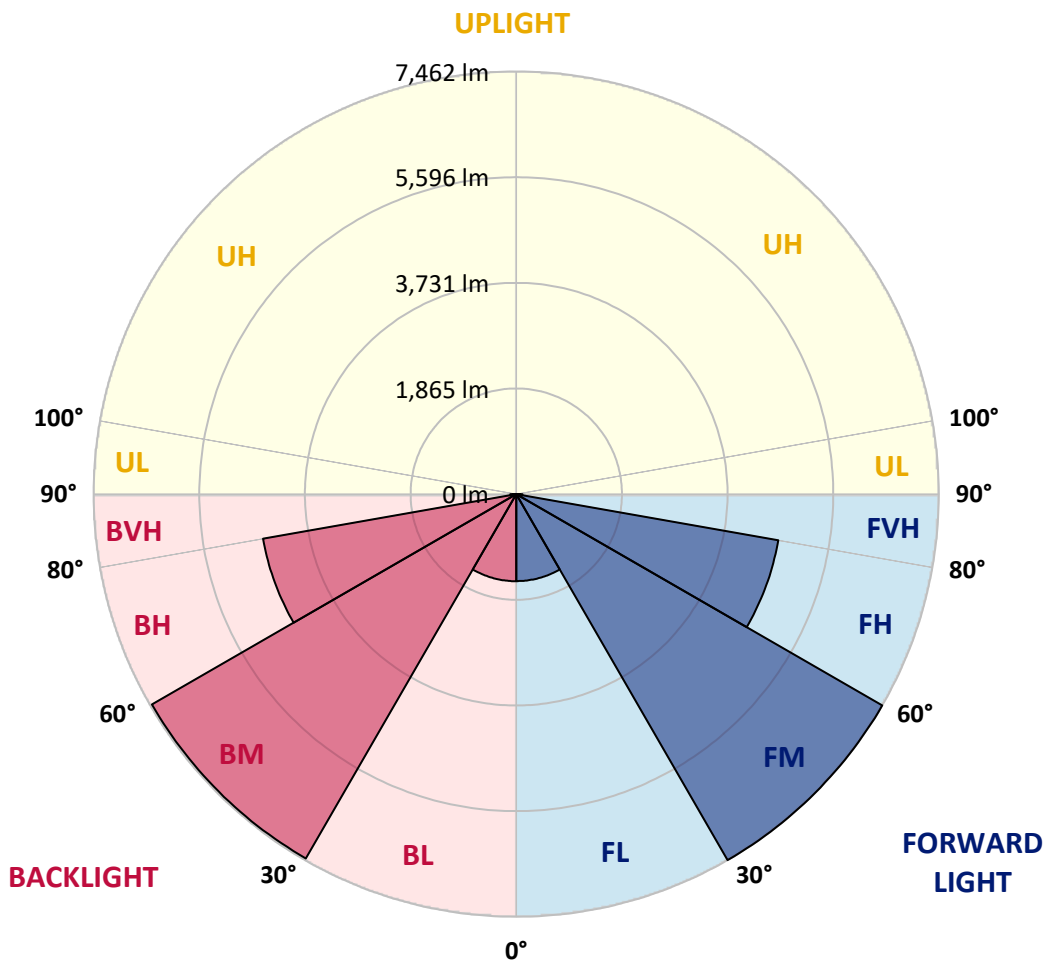


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1535.6	5.6			
FM (30°-60°)	7461.6	27.2			
FH (60°-80°)	4698.3	17.1			G2/5000
FVH (80°-90°)	108.6	0.4			G2/225
BL (0°-30°)	1537.2	5.6	B3/2500		
BM (30°-60°)	7428.3	27.1	B4/8500		
BH (60°-80°)	4539.6	16.6	B4/5000		G4/5000
BVH (80°-90°)	104.0	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°	2807.1	2807.1	2807.1	2807.1	2807.1	2807.1	2807.1	2807.1	2807.1	2807.1	2807.1
2.5°	2789.3	2789.3	2786.4	2801.2	2815.9	2821.9	2833.7	2836.6	2854.4	2839.6	2869.1
5°	2780.5	2777.5	2801.2	2836.6	2836.6	2875.0	2898.7	2931.2	2940.0	2957.8	2963.7
7.5°	2842.5	2836.6	2824.8	2863.2	2895.7	2954.8	2987.3	3043.5	3064.1	3087.8	3114.4
10°	2880.9	2880.9	2869.1	2937.1	2966.6	3046.4	3117.3	3173.5	3253.3	3279.8	3282.8
12.5°	2886.9	2895.7	2931.2	3019.8	3102.6	3206.0	3259.2	3365.5	3445.3	3495.6	3513.3
15°	2975.5	2957.8	2996.2	3117.3	3238.5	3330.1	3424.6	3501.5	3616.7	3681.7	3723.1
17.5°	3055.3	3037.6	3108.5	3253.3	3377.4	3519.2	3601.9	3684.7	3767.4	3826.5	3829.4
20°	3182.3	3197.1	3259.2	3415.8	3578.3	3702.4	3796.9	3811.7	3853.1	3938.8	3924.0
22.5°	3338.9	3327.1	3457.1	3628.5	3805.8	3909.2	3962.4	3924.0	3903.3	3994.9	4015.6
25°	3495.6	3531.0	3649.2	3808.8	4021.5	4160.4	4175.2	4068.8	3992.0	4024.5	4015.6
27.5°	3734.9	3740.8	3864.9	4054.0	4269.7	4390.9	4382.0	4231.3	4083.6	4086.5	4092.4
30°	4042.2	4012.6	4148.6	4319.9	4532.7	4642.0	4656.8	4441.1	4243.1	4184.0	4198.8
32.5°	4337.7	4373.1	4491.3	4686.3	4842.9	4905.0	4872.5	4680.4	4423.4	4343.6	4352.4
35°	4715.9	4710.0	4872.5	5038.0	5156.2	5168.0	5141.4	4860.7	4618.4	4515.0	4473.6
37.5°	5120.7	5173.9	5280.3	5416.2	5540.3	5546.2	5401.4	5176.8	4878.4	4707.0	4757.3
40°	5572.8	5631.9	5708.7	5906.7	5998.3	5903.7	5756.0	5451.6	5141.4	4990.7	5014.3
42.5°	5971.7	5998.3	6154.9	6388.3	6432.6	6391.3	6172.6	5803.3	5442.8	5277.3	5289.1
45°	6338.1	6373.5	6577.4	6787.2	6890.6	6819.7	6565.6	6214.0	5794.4	5652.6	5596.4
47.5°	6674.9	6745.9	6943.8	7159.5	7319.1	7325.0	7011.8	6586.3	6143.1	5956.9	5954.0
50°	6902.5	7005.9	7200.9	7446.1	7679.6	7771.2	7458.0	7000.0	6524.2	6326.3	6305.6
52.5°	7026.6	7132.9	7328.0	7709.1	7969.1	8111.0	7963.2	7387.0	6970.4	6763.6	6731.1
55°	6875.9	6946.8	7265.9	7800.7	8202.6	8436.0	8338.5	7921.9	7413.6	7245.2	7274.8
57.5°	6234.7	6382.4	6775.4	7443.2	8196.7	8769.9	8761.0	8427.1	7924.8	7765.3	7771.2
60°	5132.5	5256.6	5741.2	6674.9	7865.7	8905.8	9219.0	8917.6	8498.1	8311.9	8306.0
62.5°	3622.6	3779.2	4340.6	5360.0	6890.6	8716.7	9745.0	9535.2	9059.5	8923.6	8973.8
65°	2027.0	2121.6	2641.6	3563.5	5250.7	7676.6	9839.5	10176.4	9629.8	9422.9	9431.8
67.5°	1084.4	1119.9	1362.2	1870.4	3211.9	5918.5	8885.1	10545.8	10247.3	9889.8	9833.6
70°	744.6	756.4	818.5	957.4	1518.8	3539.9	6701.5	9886.8	10711.2	10223.7	10318.2
72.5°	629.4	623.5	638.2	653.0	794.8	1583.8	3932.9	7608.7	10111.4	9928.2	9892.7
75°	546.6	543.7	549.6	534.8	552.6	697.3	1740.4	4742.5	7401.8	8261.7	8394.6
77.5°	452.1	455.0	458.0	443.2	437.3	461.0	700.3	2083.1	3643.3	4021.5	4337.7
80°	342.8	348.7	372.3	357.5	333.9	336.8	413.7	697.3	1046.0	948.5	978.0
82.5°	233.4	236.4	286.6	268.9	251.2	227.5	265.9	360.5	407.8	310.3	271.8
85°	165.5	162.5	186.2	171.4	159.6	115.2	159.6	203.9	245.3	153.7	138.9
87.5°	38.4	38.4	76.8	62.1	59.1	47.3	62.1	79.8	106.4	68.0	62.1
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°	2807.1	2807.1	2807.1	2807.1	2807.1	2807.1	2807.1	2807.1	2807.1	2807.1
2.5°	2860.3	2833.7	2833.7	2827.8	2804.1	2798.2	2777.5	2783.4	2768.7	2753.9
5°	2960.7	2925.3	2925.3	2875.0	2827.8	2821.9	2798.2	2798.2	2774.6	2780.5
7.5°	3099.6	3067.1	3013.9	2969.6	2904.6	2878.0	2833.7	2827.8	2821.9	2810.0
10°	3265.1	3223.7	3170.5	3078.9	3025.7	2975.5	2931.2	2869.1	2854.4	2857.3
12.5°	3489.6	3424.6	3309.4	3229.6	3161.7	3096.7	3031.6	2940.0	2919.4	2928.2
15°	3649.2	3566.5	3451.2	3421.7	3330.1	3250.3	3143.9	3040.5	3005.1	2996.2
17.5°	3779.2	3711.3	3643.3	3599.0	3525.1	3427.6	3279.8	3161.7	3081.9	3073.0
20°	3885.6	3796.9	3782.2	3808.8	3717.2	3652.2	3471.9	3327.1	3220.8	3176.4
22.5°	3950.6	3894.5	3935.8	3959.5	3953.5	3844.2	3658.1	3489.6	3356.7	3315.3
25°	4021.5	3956.5	4104.2	4184.0	4204.7	4024.5	3879.7	3658.1	3528.1	3501.5
27.5°	4057.0	4080.6	4252.0	4420.4	4405.6	4266.8	4071.7	3873.8	3770.3	3723.1
30°	4160.4	4198.8	4458.8	4647.9	4650.9	4515.0	4367.2	4142.7	4027.4	4006.7
32.5°	4346.5	4393.8	4671.6	4872.5	4908.0	4804.5	4656.8	4517.9	4399.7	4352.4
35°	4488.4	4609.5	4922.7	5105.9	5200.5	5138.4	5055.7	4910.9	4786.8	4745.4
37.5°	4692.3	4860.7	5162.1	5410.3	5516.6	5510.7	5448.7	5292.1	5188.7	5153.2
40°	4984.8	5153.2	5428.0	5756.0	5954.0	5945.1	5909.6	5788.5	5634.8	5617.1
42.5°	5295.0	5433.9	5791.4	6166.7	6450.4	6420.8	6326.3	6184.4	6078.1	6054.4
45°	5596.4	5812.1	6143.1	6624.7	6837.5	6911.3	6799.0	6556.7	6435.6	6420.8
47.5°	5974.6	6146.0	6559.7	6991.1	7307.3	7319.1	7127.0	6902.5	6680.8	6728.1
50°	6311.5	6539.0	6958.6	7431.4	7809.6	7673.7	7428.4	7147.7	6988.1	6926.1
52.5°	6672.0	6949.7	7437.3	7918.9	8128.7	7992.8	7593.9	7280.7	7038.4	7011.8
55°	7197.9	7342.7	7981.0	8350.3	8418.3	8131.7	7543.7	7100.4	6787.2	6710.4
57.5°	7732.8	7901.2	8459.6	8778.8	8707.9	8054.8	7218.6	6533.1	6122.4	6013.1
60°	8273.5	8480.3	8950.1	9242.7	8876.3	7525.9	6299.7	5416.2	4937.5	4840.0
62.5°	8876.3	9145.2	9564.8	9668.2	8376.9	6479.9	4999.6	3909.2	3424.6	3262.1
65°	9411.1	9685.9	10203.0	9579.5	7316.1	4834.1	3232.6	2233.8	1876.3	1746.3
67.5°	9851.4	10161.6	10415.7	8477.4	5357.1	2830.7	1684.2	1176.0	1043.1	995.8
70°	10200.0	10717.1	9529.3	6231.7	3061.2	1379.9	910.1	774.2	756.4	744.6
72.5°	9895.7	9827.7	7115.2	3596.0	1341.5	759.4	658.9	638.2	635.3	638.2
75°	8093.3	7218.6	4254.9	1563.1	673.7	549.6	546.6	537.8	552.6	552.6
77.5°	3927.0	3433.5	1778.8	670.7	443.2	431.4	446.2	446.2	446.2	446.2
80°	910.1	1007.6	635.3	407.8	322.1	322.1	354.6	357.5	342.8	336.8
82.5°	310.3	413.7	348.7	257.1	212.7	239.3	268.9	274.8	227.5	230.5
85°	153.7	242.3	189.1	147.7	109.3	147.7	174.3	183.2	156.6	150.7
87.5°	70.9	106.4	70.9	50.2	38.4	53.2	50.2	41.4	23.6	23.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)