

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: P481291

Luminaire Tested: **IFLD-S-SA6A-740-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481291
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6A-740-U-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (96) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

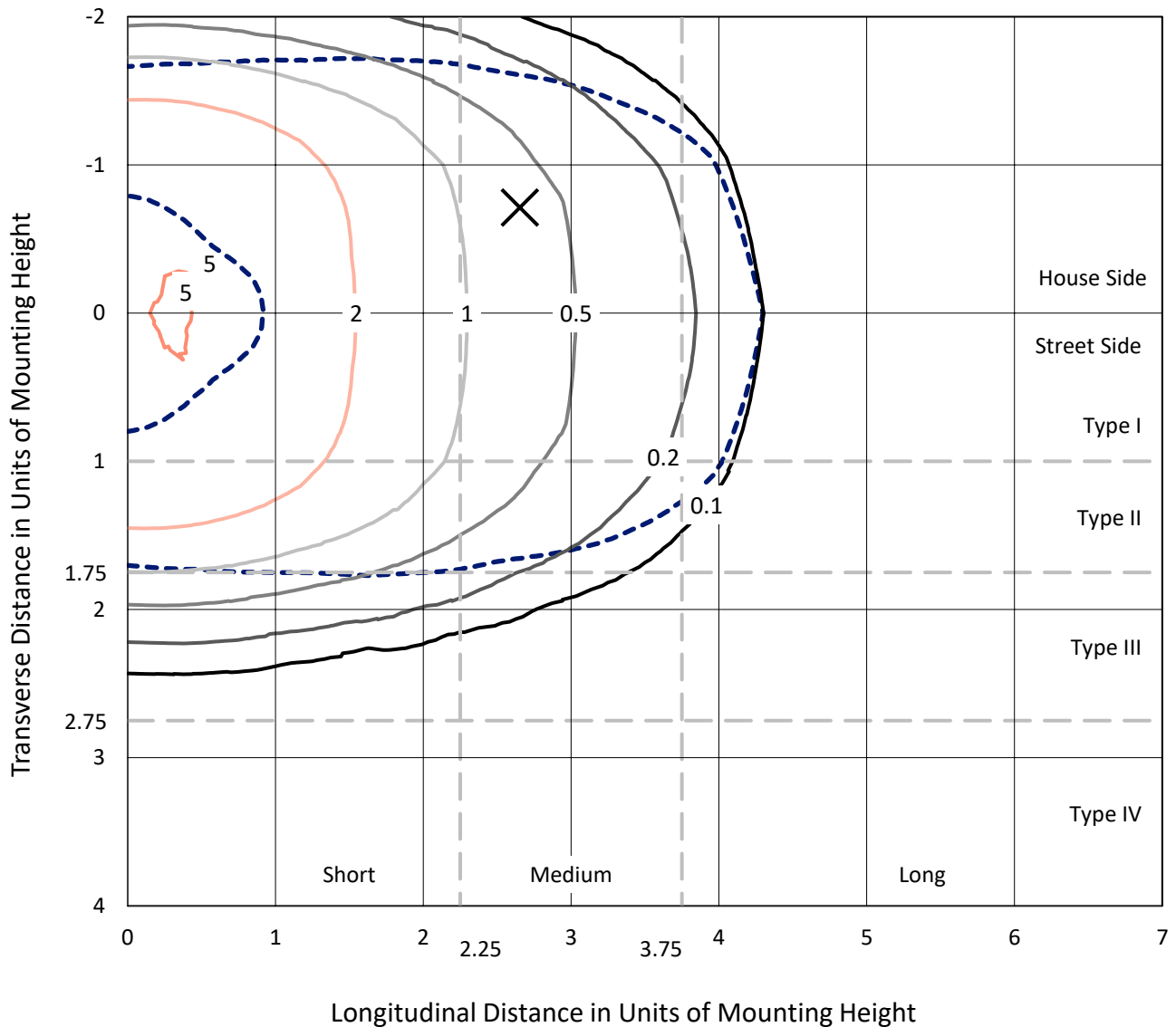
Lumens per Lamp: N/A
Luminaire Lumens: 27800.4 lumens
Efficiency: N/A
Efficacy: 146.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

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

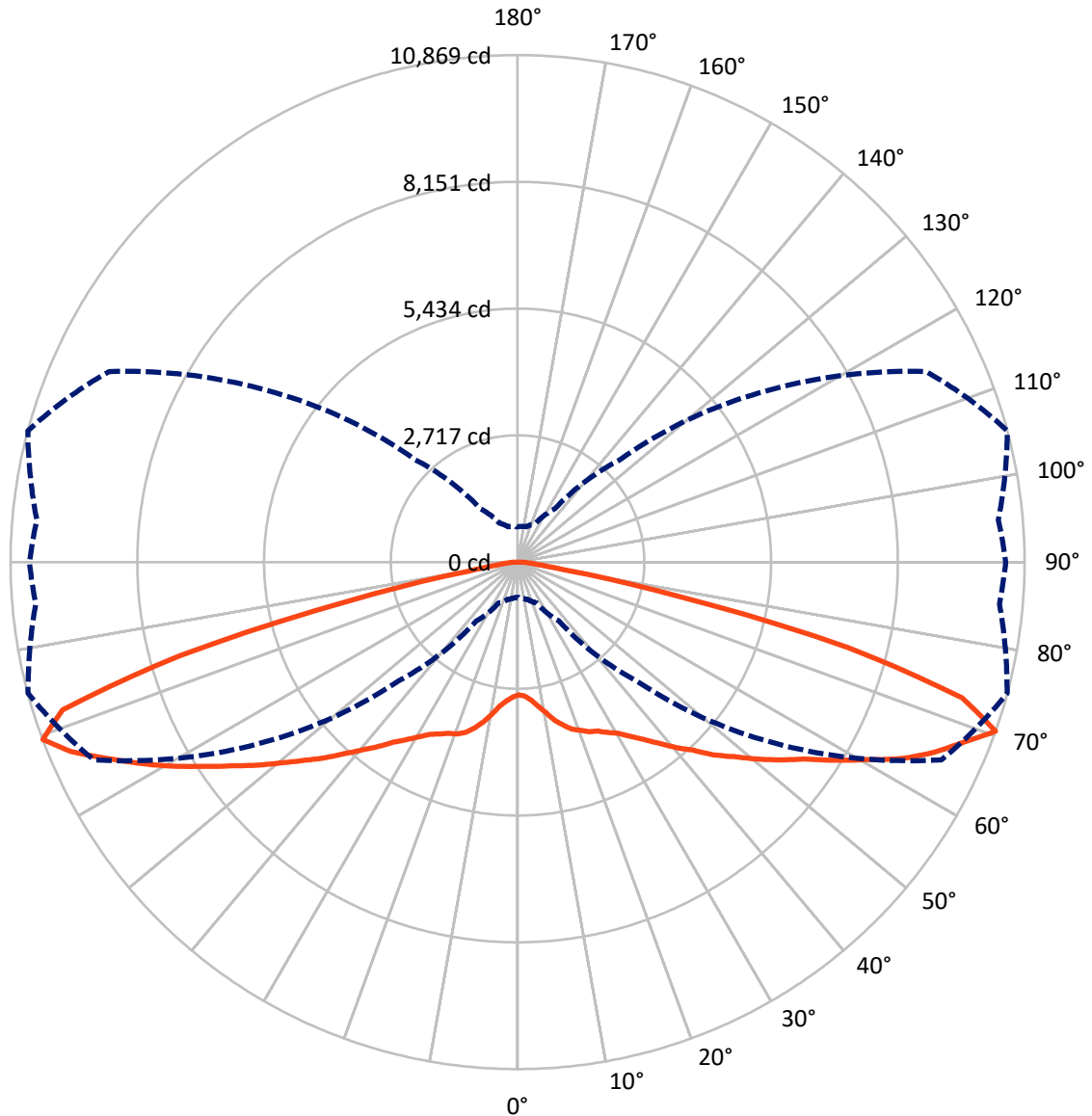
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 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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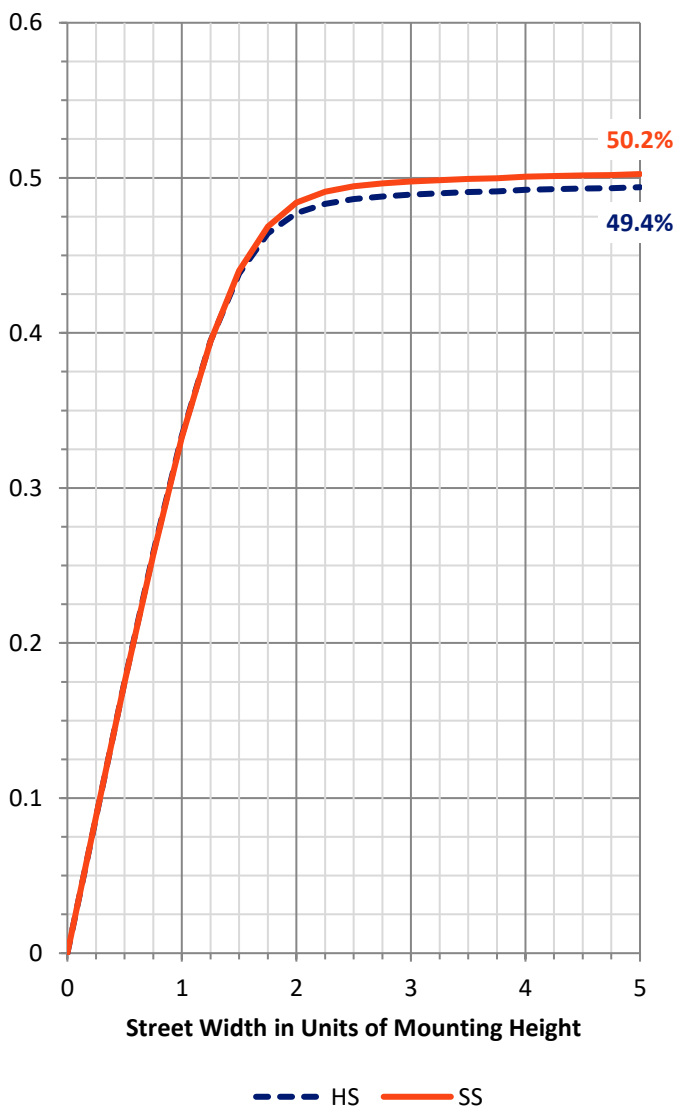
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13801.3	0.0	13801.3
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	13999.1	0.0	13999.1
	% Fixture	50.4	0.0	50.4
Total	Lumens	27800.4	0.0	27800.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	283.3	1.0
10°-20°	964.8	3.5
20°-30°	1868.1	6.7
30°-40°	3159.8	11.4
40°-50°	5040.8	18.1
50°-60°	6899.7	24.8
60°-70°	6503.4	23.4
70°-80°	2865.0	10.3
80°-90°	215.6	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°	27800.4	100.0
0°-180°	27800.4	100.0

Coefficient of Utilization

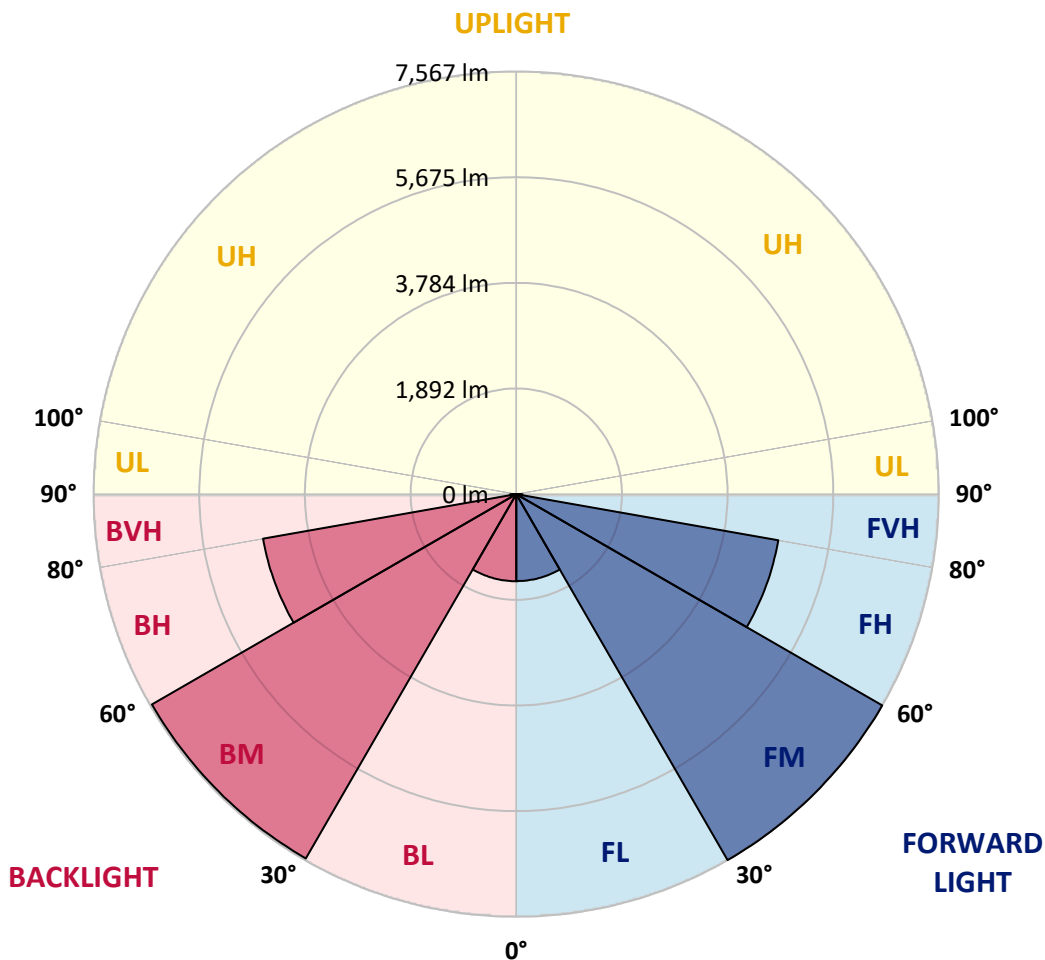


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1557.3	5.6			
FM (30°-60°)	7567.0	27.2			
FH (60°-80°)	4764.7	17.1			G2/5000
FVH (80°-90°)	110.1	0.4			G2/225
BL (0°-30°)	1559.0	5.6	B3/2500		
BM (30°-60°)	7533.2	27.1	B4/8500		
BH (60°-80°)	4603.7	16.6	B4/5000		G4/5000
BVH (80°-90°)	105.4	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°	2846.7	2846.7	2846.7	2846.7	2846.7	2846.7	2846.7	2846.7	2846.7	2846.7	2846.7
2.5°	2828.8	2828.8	2825.8	2840.7	2855.7	2861.7	2873.7	2876.7	2894.7	2879.7	2909.7
5°	2819.8	2816.8	2840.7	2876.7	2876.7	2915.7	2939.6	2972.6	2981.6	2999.6	3005.5
7.5°	2882.7	2876.7	2864.7	2903.7	2936.6	2996.6	3029.5	3086.5	3107.4	3131.4	3158.4
10°	2921.6	2921.6	2909.7	2978.6	3008.5	3089.5	3161.4	3218.3	3299.2	3326.2	3329.2
12.5°	2927.6	2936.6	2972.6	3062.5	3146.4	3251.3	3305.2	3413.1	3494.0	3544.9	3562.9
15°	3017.5	2999.6	3038.5	3161.4	3284.2	3377.1	3473.0	3550.9	3667.8	3733.7	3775.7
17.5°	3098.4	3080.5	3152.4	3299.2	3425.1	3568.9	3652.8	3736.7	3820.6	3880.5	3883.5
20°	3227.3	3242.3	3305.2	3464.0	3628.8	3754.7	3850.6	3865.6	3907.5	3994.4	3979.4
22.5°	3386.1	3374.1	3506.0	3679.8	3859.6	3964.4	4018.4	3979.4	3958.5	4051.3	4072.3
25°	3544.9	3580.9	3700.8	3862.6	4078.3	4219.2	4234.1	4126.3	4048.4	4081.3	4072.3
27.5°	3787.7	3793.6	3919.5	4111.3	4330.0	4452.9	4443.9	4291.1	4141.2	4144.2	4150.2
30°	4099.3	4069.3	4207.2	4381.0	4596.7	4707.6	4722.6	4503.8	4303.1	4243.1	4258.1
32.5°	4398.9	4434.9	4554.8	4752.5	4911.4	4974.3	4941.3	4746.5	4485.8	4404.9	4413.9
35°	4782.5	4776.5	4941.3	5109.1	5229.0	5241.0	5214.0	4929.3	4683.6	4578.7	4536.8
37.5°	5193.0	5247.0	5354.9	5492.7	5618.5	5624.5	5477.7	5250.0	4947.3	4773.5	4824.5
40°	5651.5	5711.4	5789.4	5990.1	6083.0	5987.1	5837.3	5528.7	5214.0	5061.2	5085.2
42.5°	6056.0	6083.0	6241.8	6478.6	6523.5	6481.6	6259.8	5885.2	5519.7	5351.9	5363.8
45°	6427.6	6463.6	6670.3	6883.1	6988.0	6916.1	6658.4	6301.8	5876.3	5732.4	5675.5
47.5°	6769.2	6841.1	7041.9	7260.7	7422.5	7428.5	7110.8	6679.3	6229.8	6041.1	6038.1
50°	7000.0	7104.8	7302.6	7551.3	7788.1	7881.0	7563.3	7098.8	6616.4	6415.6	6394.7
52.5°	7125.8	7233.7	7431.5	7818.0	8081.7	8225.6	8075.7	7491.4	7068.9	6859.1	6826.2
55°	6973.0	7044.9	7368.5	7910.9	8318.4	8555.2	8456.3	8033.8	7518.4	7347.6	7377.5
57.5°	6322.7	6472.6	6871.1	7548.3	8312.5	8893.8	8884.8	8546.2	8036.8	7875.0	7881.0
60°	5205.0	5330.9	5822.3	6769.2	7976.8	9031.6	9349.3	9043.6	8618.1	8429.3	8423.3
62.5°	3673.8	3832.6	4401.9	5435.8	6988.0	8839.8	9882.7	9669.9	9187.5	9049.6	9100.5
65°	2055.6	2151.5	2678.9	3613.9	5324.9	7785.1	9978.5	10320.1	9765.8	9556.0	9565.0
67.5°	1099.7	1135.7	1381.4	1896.8	3257.3	6002.1	9010.7	10694.7	10392.1	10029.5	9972.5
70°	755.1	767.1	830.0	970.9	1540.2	3589.9	6796.2	10026.5	10862.5	10368.1	10464.0
72.5°	638.3	632.3	647.3	662.2	806.1	1606.2	3988.4	7716.1	10254.2	10068.4	10032.5
75°	554.4	551.4	557.4	542.4	560.4	707.2	1765.0	4809.5	7506.4	8378.4	8513.2
77.5°	458.5	461.5	464.5	449.5	443.5	467.5	710.2	2112.6	3694.8	4078.3	4398.9
80°	347.6	353.6	377.6	362.6	338.6	341.6	419.5	707.2	1060.8	961.9	991.9
82.5°	236.7	239.7	290.7	272.7	254.7	230.7	269.7	365.6	413.5	314.6	275.7
85°	167.8	164.8	188.8	173.8	161.8	116.9	161.8	206.8	248.7	155.8	140.8
87.5°	39.0	39.0	77.9	62.9	59.9	47.9	62.9	80.9	107.9	68.9	62.9
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°	2846.7	2846.7	2846.7	2846.7	2846.7	2846.7	2846.7	2846.7	2846.7	2846.7
2.5°	2900.7	2873.7	2873.7	2867.7	2843.7	2837.7	2816.8	2822.8	2807.8	2792.8
5°	3002.6	2966.6	2966.6	2915.7	2867.7	2861.7	2837.7	2837.7	2813.8	2819.8
7.5°	3143.4	3110.4	3056.5	3011.5	2945.6	2918.6	2873.7	2867.7	2861.7	2849.7
10°	3311.2	3269.2	3215.3	3122.4	3068.5	3017.5	2972.6	2909.7	2894.7	2897.7
12.5°	3538.9	3473.0	3356.1	3275.2	3206.3	3140.4	3074.5	2981.6	2960.6	2969.6
15°	3700.8	3616.8	3500.0	3470.0	3377.1	3296.2	3188.3	3083.5	3047.5	3038.5
17.5°	3832.6	3763.7	3694.8	3649.8	3574.9	3476.0	3326.2	3206.3	3125.4	3116.4
20°	3940.5	3850.6	3835.6	3862.6	3769.7	3703.7	3521.0	3374.1	3266.2	3221.3
22.5°	4006.4	3949.5	3991.4	4015.4	4009.4	3898.5	3709.7	3538.9	3404.1	3362.1
25°	4078.3	4012.4	4162.2	4243.1	4264.1	4081.3	3934.5	3709.7	3577.9	3550.9
27.5°	4114.3	4138.2	4312.0	4482.9	4467.9	4327.0	4129.3	3928.5	3823.6	3775.7
30°	4219.2	4258.1	4521.8	4713.6	4716.6	4578.7	4428.9	4201.2	4084.3	4063.3
32.5°	4407.9	4455.9	4737.6	4941.3	4977.3	4872.4	4722.6	4581.7	4461.9	4413.9
35°	4551.8	4674.6	4992.3	5178.1	5273.9	5211.0	5127.1	4980.3	4854.4	4812.5
37.5°	4758.5	4929.3	5235.0	5486.7	5594.6	5588.6	5525.7	5366.8	5262.0	5226.0
40°	5055.2	5226.0	5504.7	5837.3	6038.1	6029.1	5993.1	5870.3	5714.4	5696.5
42.5°	5369.8	5510.7	5873.3	6253.8	6541.5	6511.5	6415.6	6271.8	6163.9	6139.9
45°	5675.5	5894.2	6229.8	6718.3	6934.0	7009.0	6895.1	6649.4	6526.5	6511.5
47.5°	6059.0	6232.8	6652.4	7089.9	7410.5	7422.5	7227.7	7000.0	6775.2	6823.2
50°	6400.7	6631.4	7056.9	7536.3	7919.9	7782.1	7533.3	7248.7	7086.9	7023.9
52.5°	6766.2	7047.9	7542.3	8030.8	8243.5	8105.7	7701.2	7383.5	7137.8	7110.8
55°	7299.6	7446.4	8093.7	8468.3	8537.2	8246.5	7650.2	7200.7	6883.1	6805.2
57.5°	7842.0	8012.8	8579.1	8902.8	8830.9	8168.6	7320.6	6625.4	6208.9	6098.0
60°	8390.4	8600.1	9076.6	9373.2	9001.7	7632.2	6388.7	5492.7	5007.3	4908.4
62.5°	9001.7	9274.4	9699.9	9804.7	8495.2	6571.5	5070.2	3964.4	3473.0	3308.2
65°	9544.0	9822.7	10347.1	9714.8	7419.5	4902.4	3278.2	2265.4	1902.8	1771.0
67.5°	9990.5	10305.2	10562.9	8597.1	5432.8	2870.7	1708.0	1192.6	1057.8	1009.8
70°	10344.1	10868.5	9663.9	6319.7	3104.4	1399.4	922.9	785.1	767.1	755.1
72.5°	10035.5	9966.6	7215.7	3646.8	1360.4	770.1	668.2	647.3	644.3	647.3
75°	8207.6	7320.6	4315.0	1585.2	683.2	557.4	554.4	545.4	560.4	560.4
77.5°	3982.4	3482.0	1803.9	680.2	449.5	437.5	452.5	452.5	452.5	452.5
80°	922.9	1021.8	644.3	413.5	326.6	326.6	359.6	362.6	347.6	341.6
82.5°	314.6	419.5	353.6	260.7	215.8	242.7	272.7	278.7	230.7	233.7
85°	155.8	245.7	191.8	149.8	110.9	149.8	176.8	185.8	158.8	152.8
87.5°	71.9	107.9	71.9	50.9	39.0	53.9	50.9	42.0	24.0	24.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)