

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: P479348

Luminaire Tested: **IFLD-M-SA4C-740-U-5MQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479348
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-740-U-5MQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

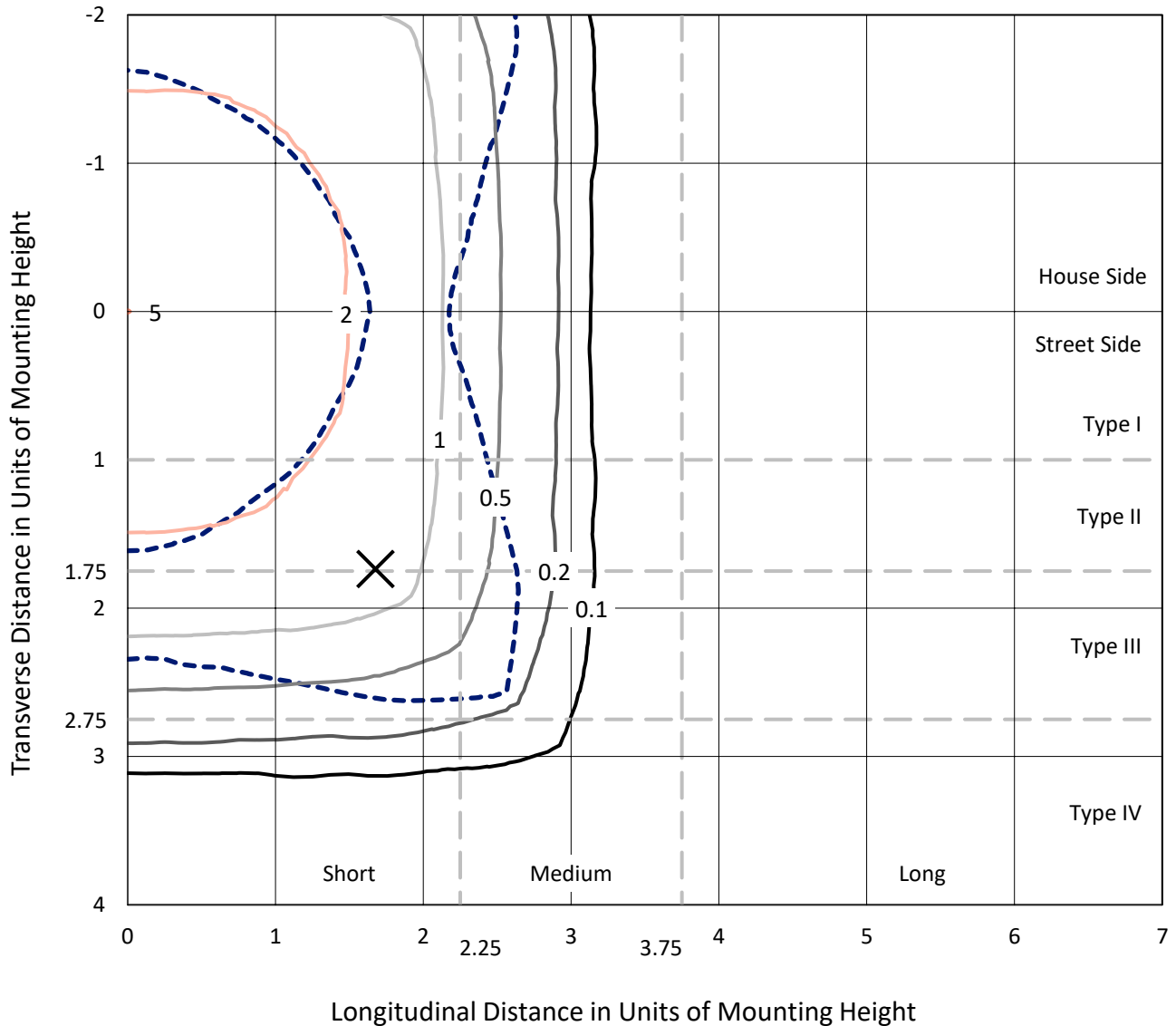
Lumens per Lamp: N/A
Luminaire Lumens: 28699.2 lumens
Efficiency: N/A
Efficacy: 131.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

Input Watts (W): 218.1
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

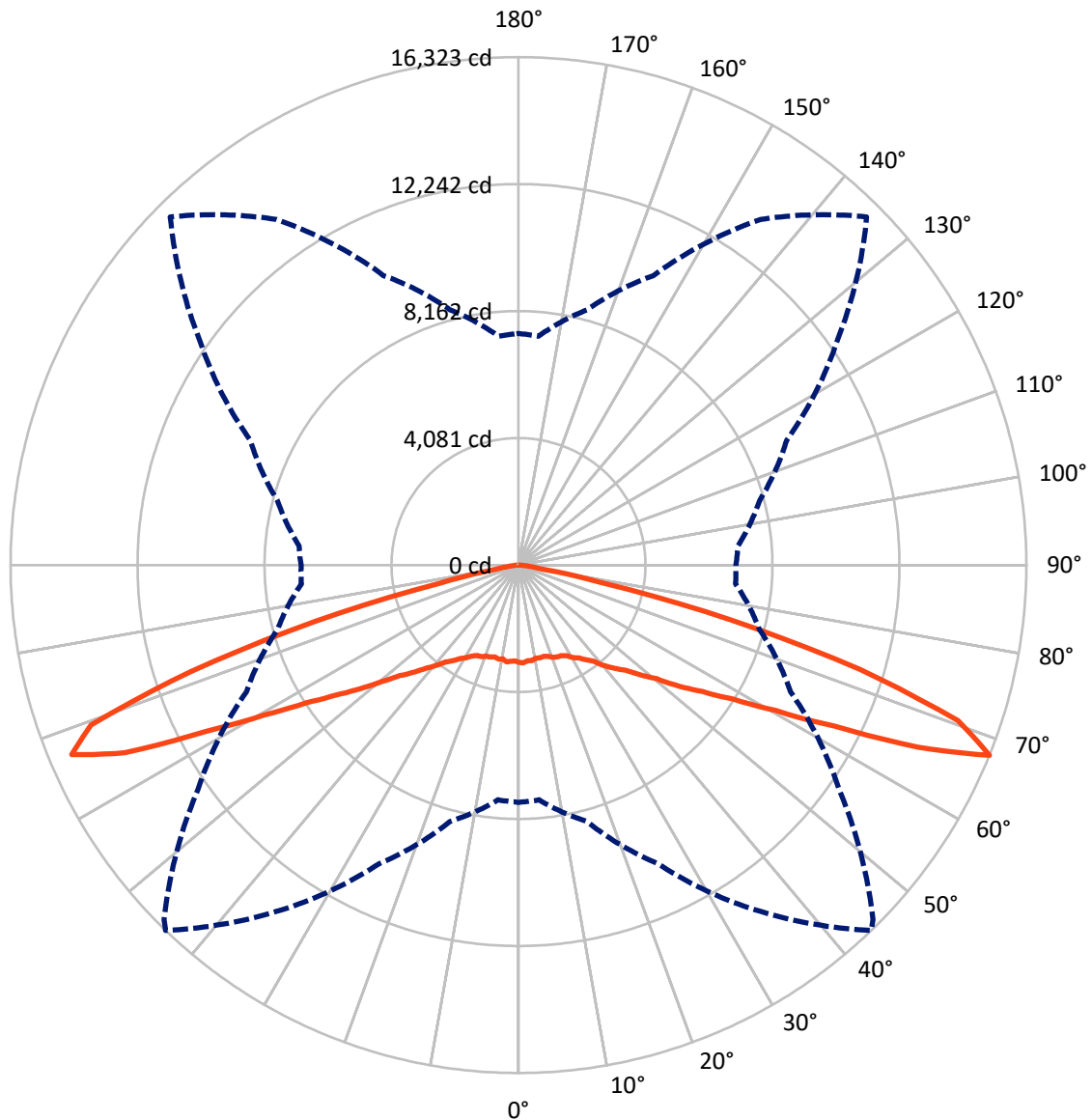
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14312.8	0.0	14312.8
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	14386.3	0.0	14386.3
	% Fixture	50.1	0.0	50.1
Total	Lumens	28699.2	0.0	28699.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	296.7	1.0
10°-20°	866.7	3.0
20°-30°	1473.8	5.1
30°-40°	2336.8	8.1
40°-50°	3810.4	13.3
50°-60°	6507.6	22.7
60°-70°	9897.9	34.5
70°-80°	3336.2	11.6
80°-90°	173.2	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°	28699.2	100.0
0°-180°	28699.2	100.0

Coefficient of Utilization



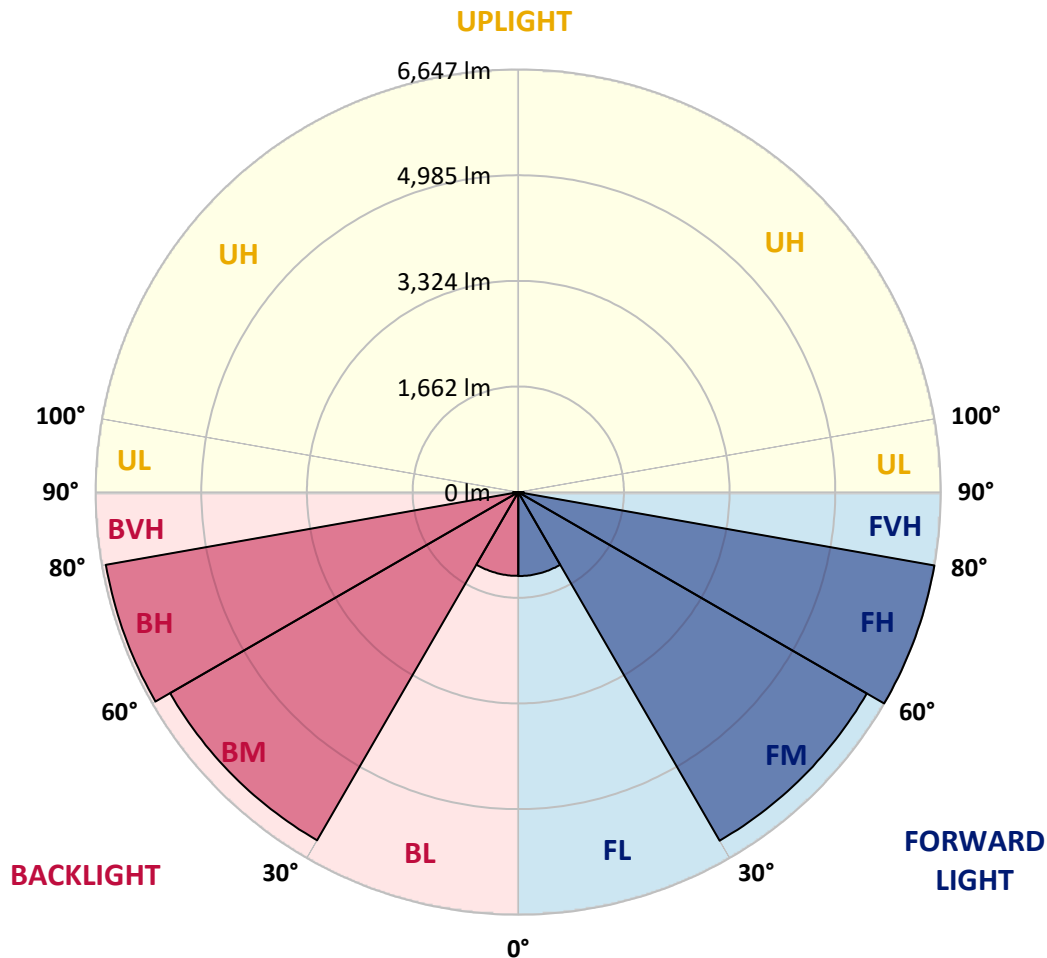
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1319.9	4.6			
FM (30°-60°)	6330.8	22.1			
FH (60°-80°)	6647.0	23.2			G3/7500
FVH (80°-90°)	88.6	0.3			G1/100
BL (0°-30°)	1317.2	4.6	B3/2500		
BM (30°-60°)	6323.9	22.0	B4/8500		
BH (60°-80°)	6587.1	23.0	B5		G3/7500
BVH (80°-90°)	84.6	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	3134.9	3134.9	3134.9	3134.9	3134.9	3134.9	3134.9	3134.9	3134.9	3134.9	3134.9
2.5°	3062.8	3098.9	3125.1	3121.8	3131.6	3141.4	3128.3	3148.0	3134.9	3157.8	3170.9
5°	3121.8	3112.0	3115.2	3095.6	3141.4	3089.0	3089.0	3115.2	3148.0	3108.7	3131.6
7.5°	3085.8	3079.2	3062.8	3092.3	3102.1	3102.1	3128.3	3079.2	3134.9	3148.0	3151.3
10°	3046.4	3010.4	3059.5	3089.0	3095.6	3043.2	3066.1	3079.2	3062.8	3079.2	3089.0
12.5°	3013.7	3033.3	3033.3	3033.3	3023.5	3059.5	3082.5	3079.2	3046.4	3075.9	3023.5
15°	3010.4	3000.6	3030.1	3056.3	3039.9	3046.4	3056.3	3085.8	3023.5	3036.6	3036.6
17.5°	3007.1	3020.2	3030.1	3026.8	3082.5	3082.5	3072.7	3053.0	3102.1	3075.9	3039.9
20°	3020.2	3010.4	3036.6	3046.4	3085.8	3164.4	3134.9	3118.5	3092.3	3059.5	3059.5
22.5°	3036.6	3030.1	3066.1	3108.7	3184.0	3203.7	3200.4	3180.8	3134.9	3095.6	3089.0
25°	3095.6	3036.6	3075.9	3157.8	3184.0	3223.3	3249.5	3223.3	3161.1	3170.9	3112.0
27.5°	3184.0	3174.2	3226.6	3282.3	3259.4	3295.4	3272.5	3292.1	3295.4	3246.3	3187.3
30°	3288.9	3259.4	3292.1	3400.2	3410.1	3449.4	3410.1	3357.6	3374.0	3331.4	3302.0
32.5°	3439.5	3429.7	3491.9	3564.0	3577.1	3557.5	3537.8	3567.3	3498.5	3465.7	3413.3
35°	3537.8	3580.4	3655.7	3711.4	3754.0	3734.4	3744.2	3714.7	3731.1	3662.3	3639.4
37.5°	3829.4	3813.0	3829.4	3924.3	3934.2	3924.3	3934.2	3966.9	3944.0	3885.0	3826.1
40°	4104.5	4078.3	4117.6	4225.7	4219.2	4251.9	4186.4	4222.4	4222.4	4111.1	4088.1
42.5°	4310.9	4399.3	4445.2	4533.6	4566.4	4536.9	4523.8	4530.4	4602.4	4471.4	4422.3
45°	4736.7	4733.5	4871.0	4920.2	4828.5	4821.9	4795.7	4874.3	4923.5	4848.1	4828.5
47.5°	5198.6	5221.5	5300.2	5319.8	5375.5	5274.0	5274.0	5283.8	5457.4	5280.5	5188.8
50°	5614.6	5644.1	5801.4	5955.3	5850.5	5742.4	5785.0	5837.4	5932.4	5765.3	5686.7
52.5°	6119.1	6279.6	6384.4	6466.3	6541.7	6466.3	6368.1	6427.0	6613.7	6391.0	6292.7
55°	6846.3	6974.1	7072.3	7223.0	7285.3	7183.7	7173.9	7167.3	7272.2	7036.3	6902.0
57.5°	7658.7	7606.3	7763.5	7996.1	8222.1	8123.9	8094.4	8100.9	8127.1	7793.0	7691.5
60°	8667.6	8726.6	8913.3	9116.4	9355.5	9493.1	9299.9	9188.5	9211.4	8756.1	8598.8
62.5°	9244.2	9375.2	9797.8	10495.5	10977.0	11406.2	11435.6	10711.7	10226.9	9342.4	8674.2
65°	8965.7	8946.1	9742.1	11032.7	12857.3	14105.4	13918.7	12162.9	10469.3	9064.0	8166.4
67.5°	7625.9	7573.5	8536.6	10583.9	13597.6	16323.1	16110.1	12572.3	9650.4	8019.0	7003.6
70°	4913.6	4900.5	5945.5	8068.2	12139.9	14986.5	15065.2	11419.3	7855.2	5873.4	4867.8
72.5°	1785.3	1893.4	2499.4	4337.1	8245.1	11465.1	11514.3	8454.7	4517.3	2715.6	2001.5
75°	658.4	678.1	789.5	1408.6	3757.3	7039.6	7223.0	4101.2	1605.1	884.5	720.7
77.5°	380.0	383.3	422.6	524.1	1113.8	2748.4	2859.7	1244.8	622.4	471.7	435.7
80°	258.8	255.5	298.1	340.7	445.5	779.6	828.8	520.8	393.1	327.6	275.2
82.5°	150.7	160.5	219.5	242.4	271.9	344.0	350.5	324.3	294.8	242.4	180.2
85°	91.7	75.3	121.2	134.3	157.2	154.0	154.0	176.9	190.0	170.3	101.5
87.5°	22.9	22.9	29.5	32.8	42.6	32.8	36.0	68.8	91.7	85.2	52.4
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3134.9	3134.9	3134.9	3134.9	3134.9	3134.9	3134.9	3134.9	3134.9	3134.9	3134.9
2.5°	3141.4	3131.6	3138.2	3174.2	3151.3	3082.5	3098.9	3134.9	3105.4	3089.0	3085.8
5°	3128.3	3148.0	3125.1	3131.6	3154.5	3098.9	3108.7	3154.5	3134.9	3141.4	3105.4
7.5°	3131.6	3141.4	3121.8	3092.3	3092.3	3138.2	3112.0	3118.5	3089.0	3138.2	3072.7
10°	3112.0	3085.8	3062.8	3079.2	3072.7	3059.5	3049.7	3069.4	3039.9	3082.5	3036.6
12.5°	3053.0	3059.5	3053.0	3046.4	3059.5	3092.3	3039.9	3046.4	3000.6	3007.1	3030.1
15°	3030.1	3049.7	3043.2	3079.2	3095.6	3046.4	3085.8	3046.4	3010.4	2990.8	3026.8
17.5°	3039.9	3069.4	3059.5	3085.8	3056.3	3092.3	3098.9	3082.5	3039.9	3023.5	3039.9
20°	3049.7	3039.9	3053.0	3098.9	3141.4	3105.4	3105.4	3095.6	3056.3	3033.3	3033.3
22.5°	3072.7	3056.3	3075.9	3112.0	3125.1	3180.8	3131.6	3108.7	3043.2	2984.2	3039.9
25°	3118.5	3128.3	3141.4	3128.3	3200.4	3193.9	3187.3	3170.9	3069.4	3072.7	3062.8
27.5°	3207.0	3151.3	3167.6	3246.3	3256.1	3282.3	3249.5	3279.0	3170.9	3174.2	3108.7
30°	3315.1	3256.1	3308.5	3377.3	3374.0	3423.2	3406.8	3413.3	3338.0	3295.4	3207.0
32.5°	3433.0	3426.4	3459.2	3501.8	3518.2	3544.4	3541.1	3541.1	3495.2	3383.8	3400.2
35°	3564.0	3609.9	3649.2	3695.0	3701.6	3734.4	3688.5	3695.0	3649.2	3567.3	3593.5
37.5°	3822.8	3819.5	3862.1	3917.8	3924.3	3898.1	3934.2	3917.8	3855.6	3799.9	3757.3
40°	4124.2	4058.7	4098.0	4229.0	4238.8	4193.0	4189.7	4186.4	4140.5	4019.3	3993.1
42.5°	4386.2	4471.4	4464.8	4507.4	4477.9	4455.0	4536.9	4491.1	4455.0	4327.3	4304.3
45°	4723.6	4749.8	4835.0	4972.6	4831.7	4831.7	4887.4	4851.4	4831.7	4736.7	4648.3
47.5°	5142.9	5165.9	5336.2	5346.0	5254.3	5192.1	5365.7	5372.2	5290.3	5218.3	5110.2
50°	5634.3	5644.1	5798.1	5955.3	5853.8	5735.8	5912.7	5981.5	5798.1	5699.8	5565.5
52.5°	6174.8	6145.3	6273.1	6567.9	6469.6	6433.6	6623.6	6639.9	6391.0	6237.0	6273.1
55°	6797.2	6757.9	7105.1	7304.9	7242.7	7177.2	7262.3	7301.6	7101.8	6849.6	6938.0
57.5°	7603.0	7622.7	7796.3	7992.8	8094.4	8110.8	8150.1	8110.8	7907.7	7652.1	7570.3
60°	8408.8	8467.8	8805.2	9175.4	9208.1	9496.4	9444.0	9247.4	8959.2	8595.6	8611.9
62.5°	8706.9	8657.8	9201.6	10105.7	10875.5	11402.9	11170.3	10472.6	9804.3	9142.6	9191.8
65°	8107.5	8228.7	8969.0	10384.1	12054.8	14141.4	12903.2	10973.8	9624.1	8769.2	8674.2
67.5°	6987.2	7078.9	8019.0	9512.8	12477.3	15825.1	13558.3	10266.2	8487.5	7380.3	7439.2
70°	4867.8	4913.6	5834.1	7793.0	11314.4	14934.1	12231.6	7884.7	5860.3	4671.2	4736.7
72.5°	1958.9	2070.3	2676.3	4694.1	8353.2	11347.2	8235.2	4137.3	2430.6	1808.2	1641.2
75°	723.9	727.2	855.0	1614.9	3966.9	7131.3	3714.7	1330.0	776.4	635.5	606.0
77.5°	419.3	416.0	445.5	583.1	1149.8	2784.4	1054.8	520.8	422.6	380.0	363.6
80°	262.1	258.8	304.6	386.5	504.5	763.2	445.5	324.3	285.0	245.7	245.7
82.5°	167.1	170.3	239.1	285.0	307.9	337.4	258.8	229.3	212.9	140.9	137.6
85°	108.1	98.3	167.1	190.0	170.3	150.7	144.1	121.2	111.4	68.8	75.3
87.5°	49.1	52.4	85.2	95.0	62.2	36.0	36.0	26.2	26.2	16.4	16.4
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)