

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: P479271

Luminaire Tested: **IFLD-M-SA4D-730-U-5MQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479271
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-730-U-5MQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens
Light Source: (64) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

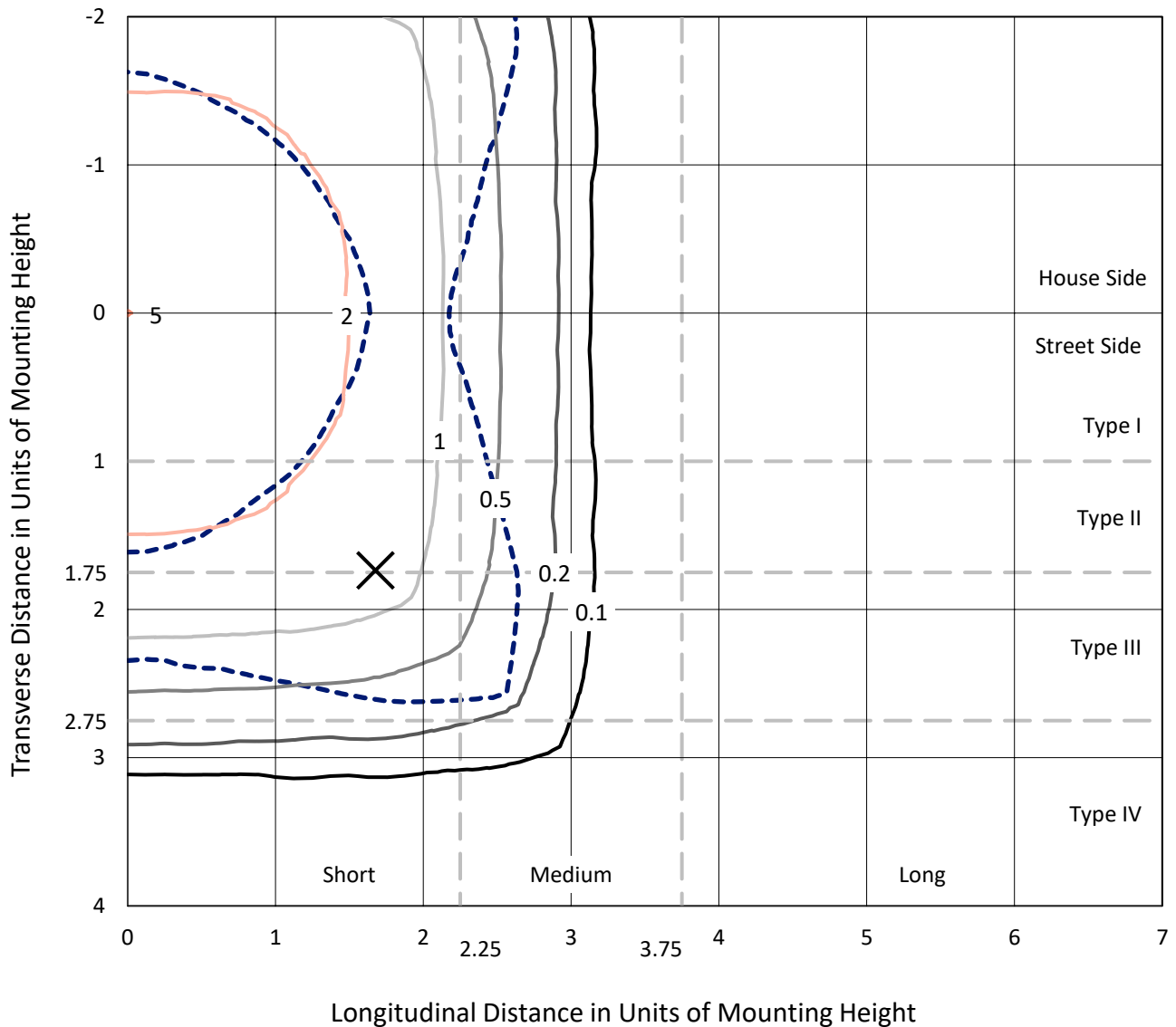
Lumens per Lamp: N/A
Luminaire Lumens: 28755.2 lumens
Efficiency: N/A
Efficacy: 115.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

Input Watts (W): 249.7
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

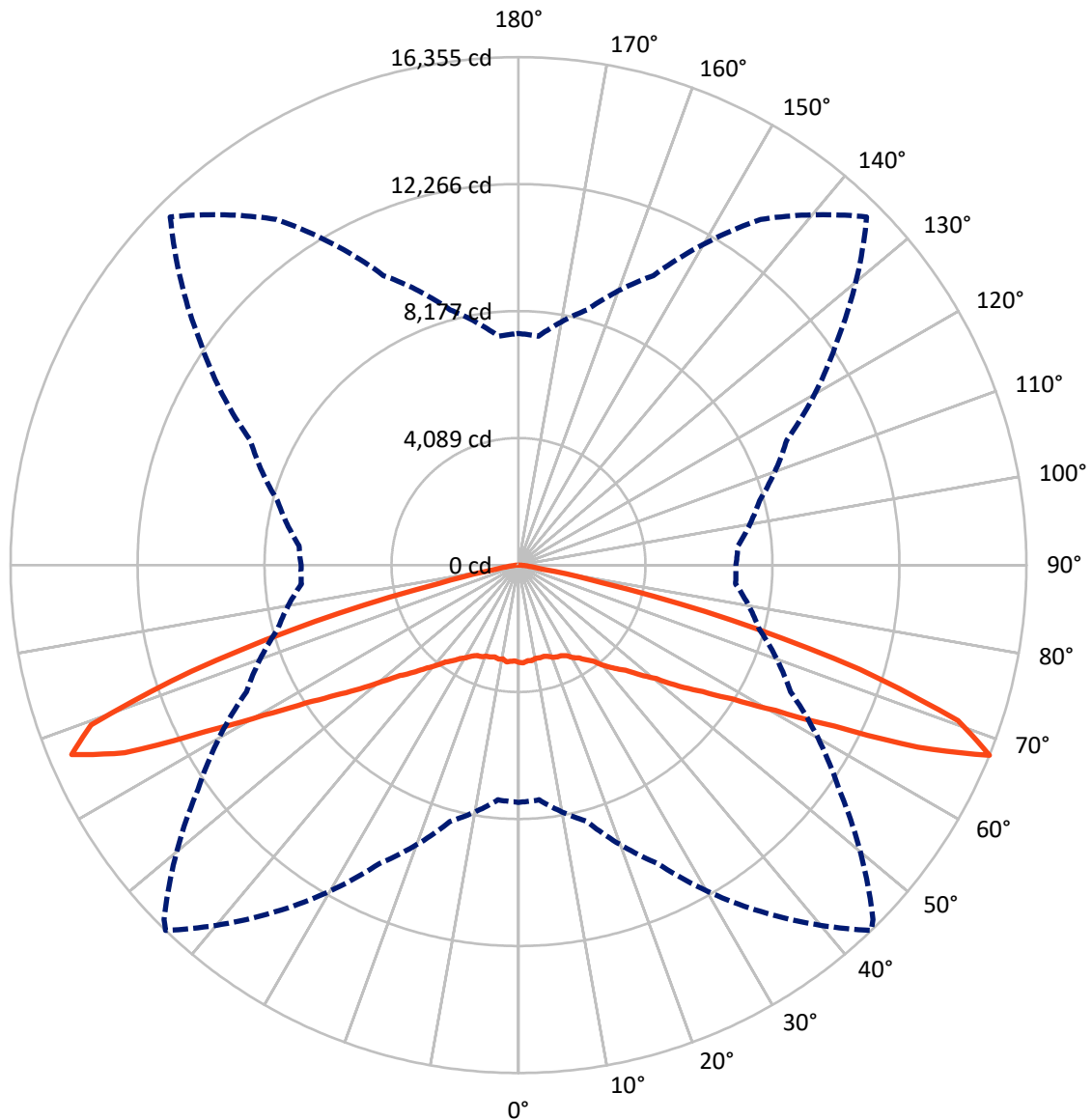
✕ Max cd
 - - - 1/2 Max cd



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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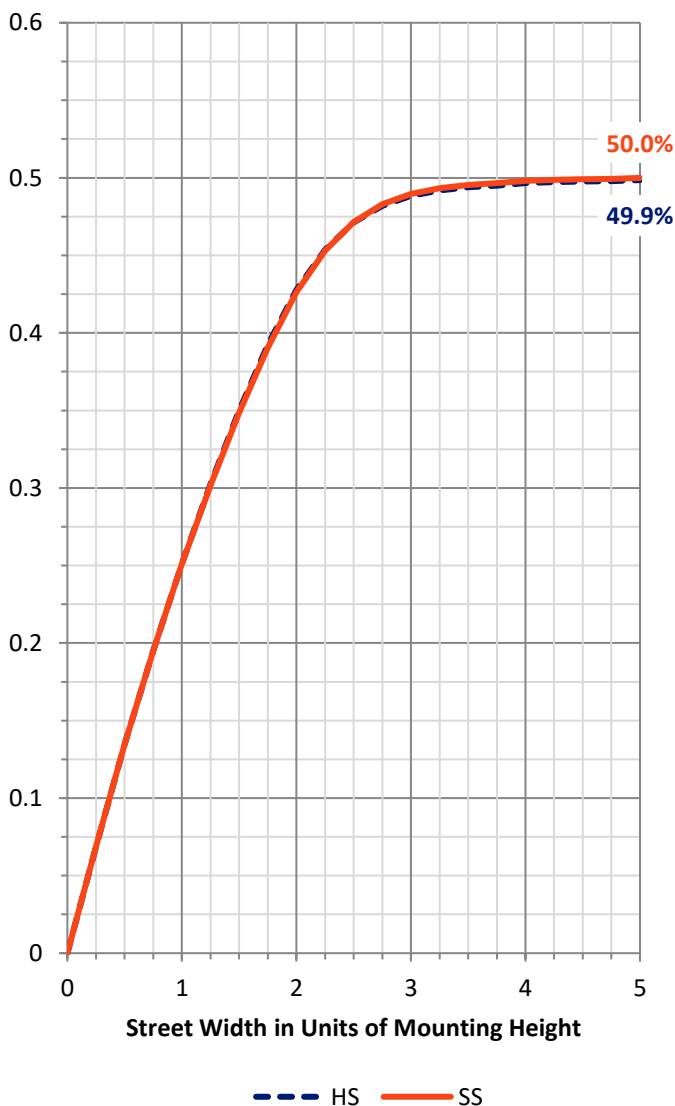
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14340.8	0.0	14340.8
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	14414.4	0.0	14414.4
	% Fixture	50.1	0.0	50.1
Total	Lumens	28755.2	0.0	28755.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	297.2	1.0
10°-20°	868.4	3.0
20°-30°	1476.7	5.1
30°-40°	2341.3	8.1
40°-50°	3817.8	13.3
50°-60°	6520.3	22.7
60°-70°	9917.2	34.5
70°-80°	3342.7	11.6
80°-90°	173.6	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°	28755.2	100.0
0°-180°	28755.2	100.0

Coefficient of Utilization



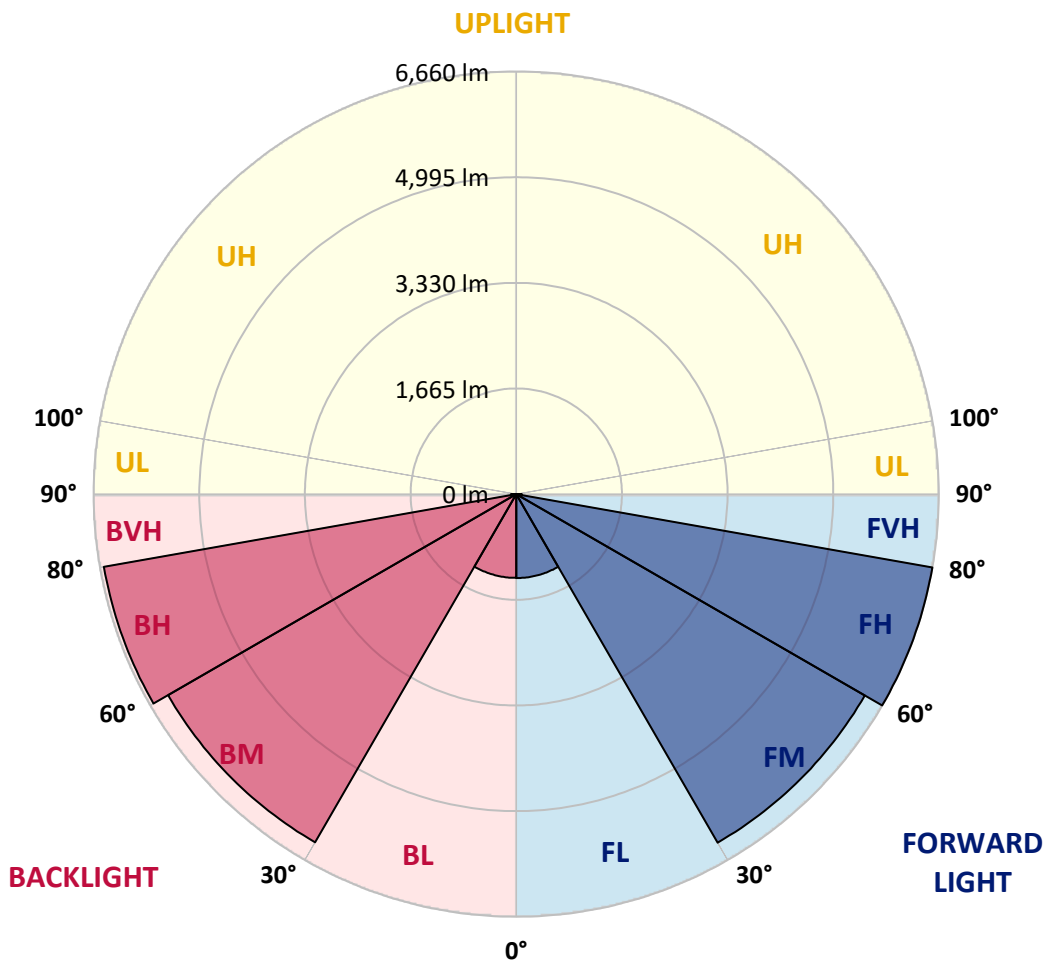
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1322.5	4.6			
FM (30°-60°)	6343.1	22.1			
FH (60°-80°)	6660.0	23.2			G3/7500
FVH (80°-90°)	88.8	0.3			G1/100
BL (0°-30°)	1319.8	4.6	B3/2500		
BM (30°-60°)	6336.3	22.0	B4/8500		
BH (60°-80°)	6599.9	23.0	B5		G3/7500
BVH (80°-90°)	84.8	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°	3141.0	3141.0	3141.0	3141.0	3141.0	3141.0	3141.0	3141.0	3141.0	3141.0	3141.0
2.5°	3068.8	3104.9	3131.2	3127.9	3137.7	3147.6	3134.4	3154.1	3141.0	3164.0	3177.1
5°	3127.9	3118.0	3121.3	3101.6	3147.6	3095.1	3095.1	3121.3	3154.1	3114.7	3137.7
7.5°	3091.8	3085.2	3068.8	3098.3	3108.2	3108.2	3134.4	3085.2	3141.0	3154.1	3157.4
10°	3052.4	3016.3	3065.5	3095.1	3101.6	3049.1	3072.1	3085.2	3068.8	3085.2	3095.1
12.5°	3019.6	3039.3	3039.3	3039.3	3029.4	3065.5	3088.5	3085.2	3052.4	3081.9	3029.4
15°	3016.3	3006.4	3036.0	3062.2	3045.8	3052.4	3062.2	3091.8	3029.4	3042.5	3042.5
17.5°	3013.0	3026.1	3036.0	3032.7	3088.5	3088.5	3078.6	3059.0	3108.2	3081.9	3045.8
20°	3026.1	3016.3	3042.5	3052.4	3091.8	3170.5	3141.0	3124.6	3098.3	3065.5	3065.5
22.5°	3042.5	3036.0	3072.1	3114.7	3190.2	3209.9	3206.6	3187.0	3141.0	3101.6	3095.1
25°	3101.6	3042.5	3081.9	3164.0	3190.2	3229.6	3255.9	3229.6	3167.3	3177.1	3118.0
27.5°	3190.2	3180.4	3232.9	3288.7	3265.7	3301.8	3278.9	3298.5	3301.8	3252.6	3193.5
30°	3295.3	3265.7	3298.5	3406.9	3416.7	3456.1	3416.7	3364.2	3380.6	3337.9	3308.4
32.5°	3446.2	3436.4	3498.8	3571.0	3584.1	3564.4	3544.7	3574.2	3505.3	3472.5	3420.0
35°	3544.7	3587.4	3662.9	3718.7	3761.3	3741.6	3751.5	3721.9	3738.4	3669.4	3646.5
37.5°	3836.8	3820.4	3836.8	3932.0	3941.8	3932.0	3941.8	3974.7	3951.7	3892.6	3833.5
40°	4112.5	4086.3	4125.6	4234.0	4227.4	4260.2	4194.6	4230.7	4230.7	4119.1	4096.1
42.5°	4319.3	4407.9	4453.9	4542.5	4575.3	4545.8	4532.6	4539.2	4611.4	4480.1	4430.9
45°	4746.0	4742.7	4880.5	4929.8	4837.9	4831.3	4805.1	4883.8	4933.1	4857.6	4837.9
47.5°	5208.8	5231.7	5310.5	5330.2	5386.0	5284.2	5284.2	5294.1	5468.0	5290.8	5198.9
50°	5625.6	5655.1	5812.7	5966.9	5861.9	5753.6	5796.3	5848.8	5944.0	5776.6	5697.8
52.5°	6131.0	6291.9	6396.9	6478.9	6554.4	6478.9	6380.5	6439.6	6626.6	6403.5	6305.0
55°	6859.7	6987.7	7086.1	7237.1	7299.5	7197.7	7187.9	7181.3	7286.3	7050.0	6915.5
57.5°	7673.6	7621.1	7778.7	8011.7	8238.2	8139.7	8110.2	8116.7	8143.0	7808.2	7706.5
60°	8684.5	8743.6	8930.7	9134.2	9373.8	9511.6	9318.0	9206.4	9229.4	8773.2	8615.6
62.5°	9262.2	9393.5	9816.9	10516.0	10998.4	11428.4	11457.9	10732.6	10246.8	9360.7	8691.1
65°	8983.2	8963.5	9761.1	11054.2	12882.4	14132.9	13945.8	12186.6	10489.7	9081.7	8182.4
67.5°	7640.8	7588.3	8553.3	10604.6	13624.2	16354.9	16141.6	12596.8	9669.2	8034.7	7017.2
70°	4923.2	4910.1	5957.1	8083.9	12163.6	15015.8	15094.6	11441.5	7870.6	5884.9	4877.3
72.5°	1788.8	1897.1	2504.3	4345.6	8261.1	11487.5	11536.7	8471.2	4526.1	2720.9	2005.4
75°	659.7	679.4	791.0	1411.3	3764.6	7053.3	7237.1	4109.2	1608.2	886.2	722.1
77.5°	380.7	384.0	423.4	525.1	1115.9	2753.7	2865.3	1247.2	623.6	472.6	436.5
80°	259.3	256.0	298.7	341.3	446.4	781.1	830.4	521.9	393.9	328.2	275.7
82.5°	151.0	160.8	219.9	242.9	272.4	344.6	351.2	324.9	295.4	242.9	180.5
85°	91.9	75.5	121.4	134.6	157.5	154.3	154.3	177.2	190.4	170.7	101.7
87.5°	23.0	23.0	29.5	32.8	42.7	32.8	36.1	68.9	91.9	85.3	52.5
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°	3141.0	3141.0	3141.0	3141.0	3141.0	3141.0	3141.0	3141.0	3141.0	3141.0	3141.0
2.5°	3147.6	3137.7	3144.3	3180.4	3157.4	3088.5	3104.9	3141.0	3111.5	3095.1	3091.8
5°	3134.4	3154.1	3131.2	3137.7	3160.7	3104.9	3114.7	3160.7	3141.0	3147.6	3111.5
7.5°	3137.7	3147.6	3127.9	3098.3	3098.3	3144.3	3118.0	3124.6	3095.1	3144.3	3078.6
10°	3118.0	3091.8	3068.8	3085.2	3078.6	3065.5	3055.7	3075.4	3045.8	3088.5	3042.5
12.5°	3059.0	3065.5	3059.0	3052.4	3065.5	3098.3	3045.8	3052.4	3006.4	3013.0	3036.0
15°	3036.0	3055.7	3049.1	3085.2	3101.6	3052.4	3091.8	3052.4	3016.3	2996.6	3032.7
17.5°	3045.8	3075.4	3065.5	3091.8	3062.2	3098.3	3104.9	3088.5	3045.8	3029.4	3045.8
20°	3055.7	3045.8	3059.0	3104.9	3147.6	3111.5	3111.5	3101.6	3062.2	3039.3	3039.3
22.5°	3078.6	3062.2	3081.9	3118.0	3131.2	3187.0	3137.7	3114.7	3049.1	2990.0	3045.8
25°	3124.6	3134.4	3147.6	3134.4	3206.6	3200.1	3193.5	3177.1	3075.4	3078.6	3068.8
27.5°	3213.2	3157.4	3173.8	3252.6	3262.4	3288.7	3255.9	3285.4	3177.1	3180.4	3114.7
30°	3321.5	3262.4	3315.0	3383.9	3380.6	3429.8	3413.4	3420.0	3344.5	3301.8	3213.2
32.5°	3439.7	3433.1	3465.9	3508.6	3525.0	3551.3	3548.0	3548.0	3502.0	3390.4	3406.9
35°	3571.0	3616.9	3656.3	3702.3	3708.8	3741.6	3695.7	3702.3	3656.3	3574.2	3600.5
37.5°	3830.3	3827.0	3869.6	3925.4	3932.0	3905.7	3941.8	3925.4	3863.1	3807.3	3764.6
40°	4132.2	4066.6	4106.0	4237.2	4247.1	4201.1	4197.9	4194.6	4148.6	4027.2	4000.9
42.5°	4394.8	4480.1	4473.6	4516.2	4486.7	4463.7	4545.8	4499.8	4463.7	4335.7	4312.7
45°	4732.8	4759.1	4844.4	4982.3	4841.2	4841.2	4897.0	4860.8	4841.2	4746.0	4657.4
47.5°	5153.0	5175.9	5346.6	5356.5	5264.6	5202.2	5376.1	5382.7	5300.7	5228.4	5120.1
50°	5645.3	5655.1	5809.4	5966.9	5865.2	5747.0	5924.3	5993.2	5809.4	5710.9	5576.4
52.5°	6186.8	6157.3	6285.3	6580.7	6482.2	6446.1	6636.5	6652.9	6403.5	6249.2	6285.3
55°	6810.4	6771.1	7119.0	7319.2	7256.8	7191.2	7276.5	7315.9	7115.7	6863.0	6951.6
57.5°	7617.8	7637.5	7811.5	8008.4	8110.2	8126.6	8166.0	8126.6	7923.1	7667.1	7585.0
60°	8425.3	8484.3	8822.4	9193.3	9226.1	9514.9	9462.4	9265.5	8976.6	8612.3	8628.7
62.5°	8723.9	8674.7	9219.5	10125.4	10896.7	11425.1	11192.1	10493.0	9823.4	9160.4	9209.7
65°	8123.3	8244.7	8986.5	10404.4	12078.3	14169.0	12928.3	10995.2	9642.9	8786.3	8691.1
67.5°	7000.8	7092.7	8034.7	9531.3	12501.7	15856.0	13584.8	10286.2	8504.0	7394.7	7453.7
70°	4877.3	4923.2	5845.5	7808.2	11336.5	14963.3	12255.5	7900.1	5871.7	4680.3	4746.0
72.5°	1962.7	2074.3	2681.5	4703.3	8369.5	11369.3	8251.3	4145.3	2435.3	1811.7	1644.4
75°	725.4	728.6	856.6	1618.1	3974.7	7145.2	3721.9	1332.5	777.9	636.7	607.2
77.5°	420.1	416.8	446.4	584.2	1152.0	2789.8	1056.8	521.9	423.4	380.7	364.3
80°	262.6	259.3	305.2	387.3	505.4	764.7	446.4	324.9	285.5	246.2	246.2
82.5°	167.4	170.7	239.6	285.5	308.5	338.1	259.3	229.7	213.3	141.1	137.8
85°	108.3	98.5	167.4	190.4	170.7	151.0	144.4	121.4	111.6	68.9	75.5
87.5°	49.2	52.5	85.3	95.2	62.4	36.1	36.1	26.3	26.3	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)