

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: P478956

Luminaire Tested: **IFLD-M-SA4A-740-U-5NQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478956
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-740-U-5NQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

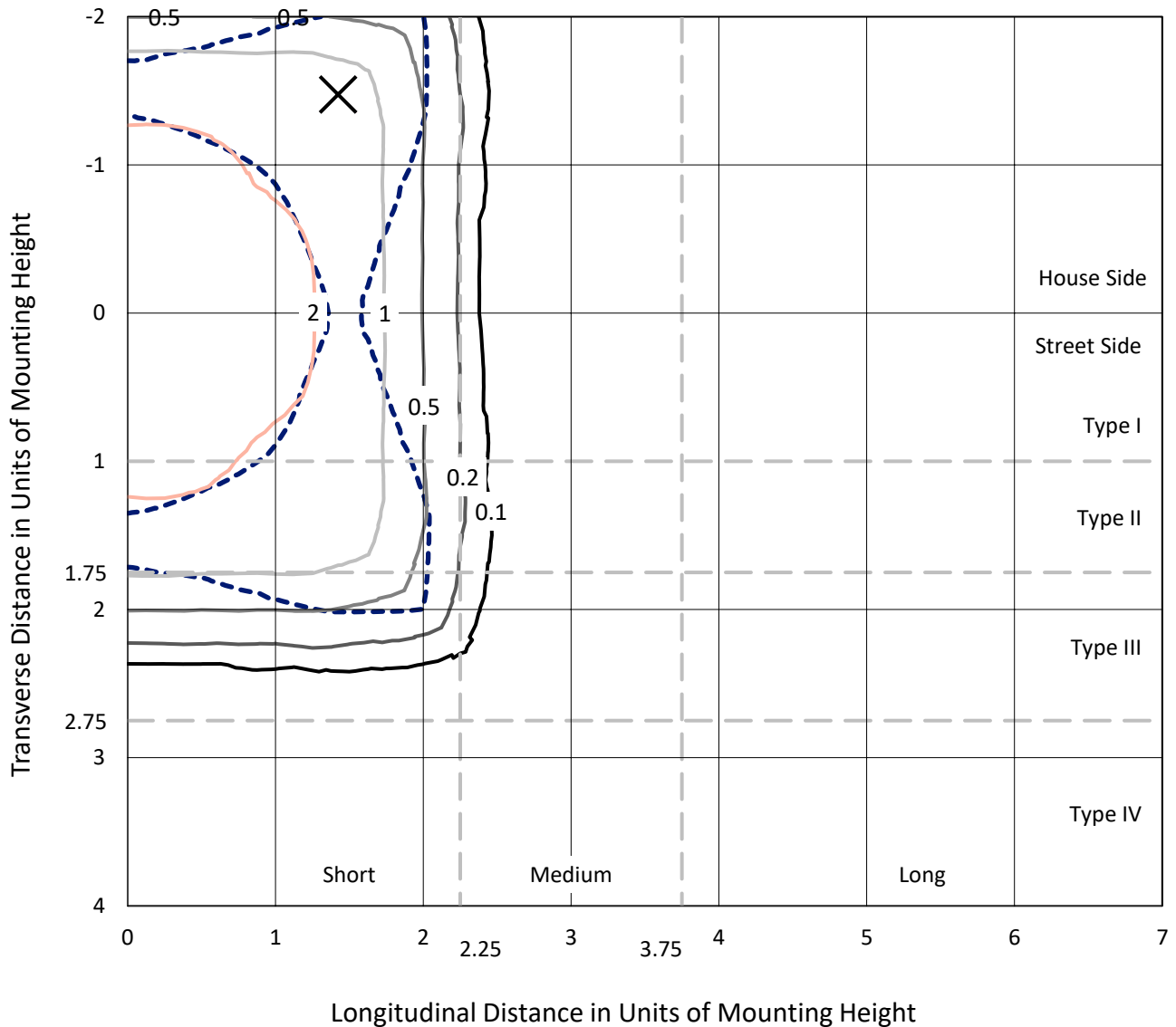
Lumens per Lamp: N/A
Luminaire Lumens: 18418.9 lumens
Efficiency: N/A
Efficacy: 143.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

Input Watts (W): 128.6
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

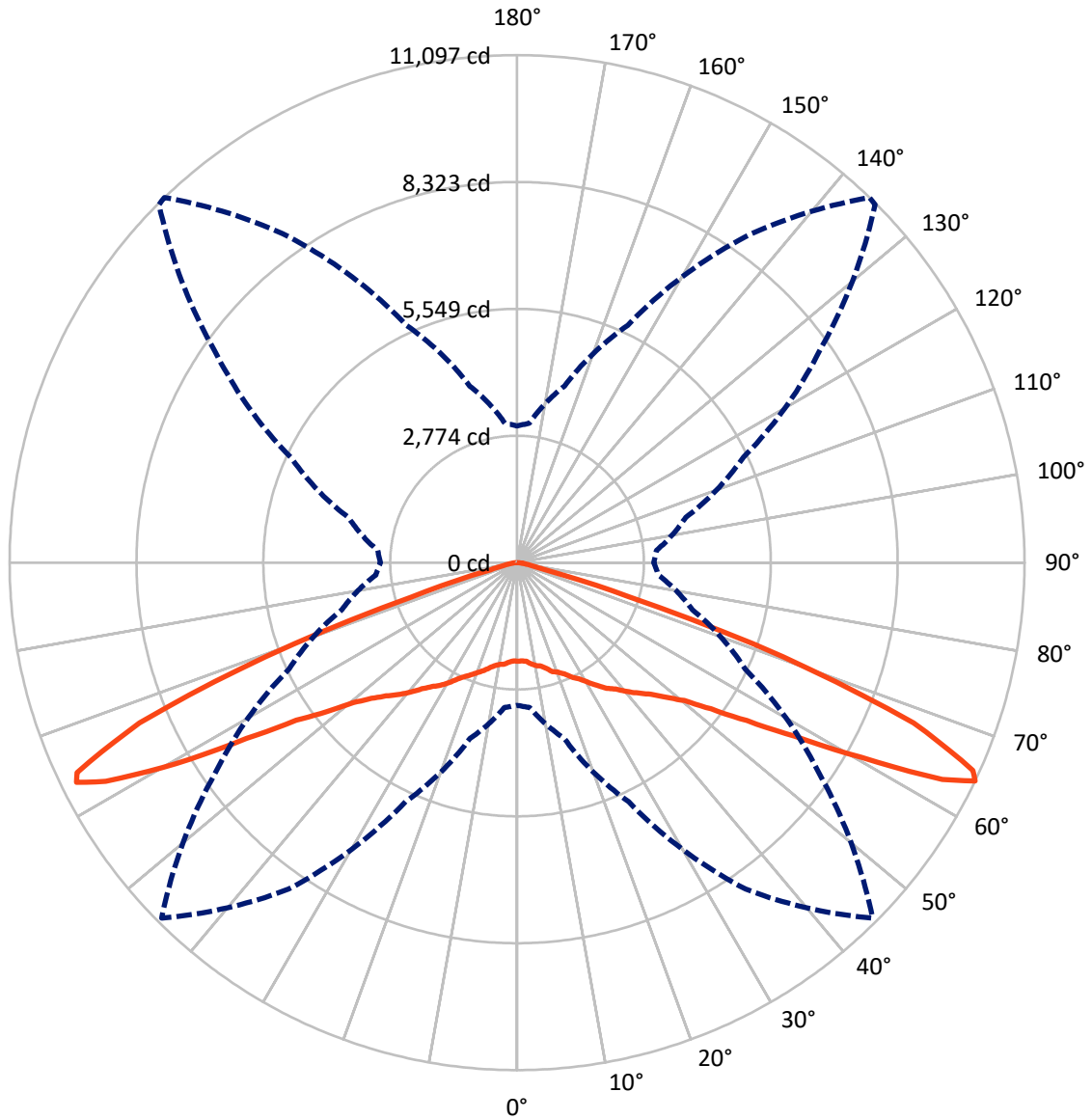
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 136-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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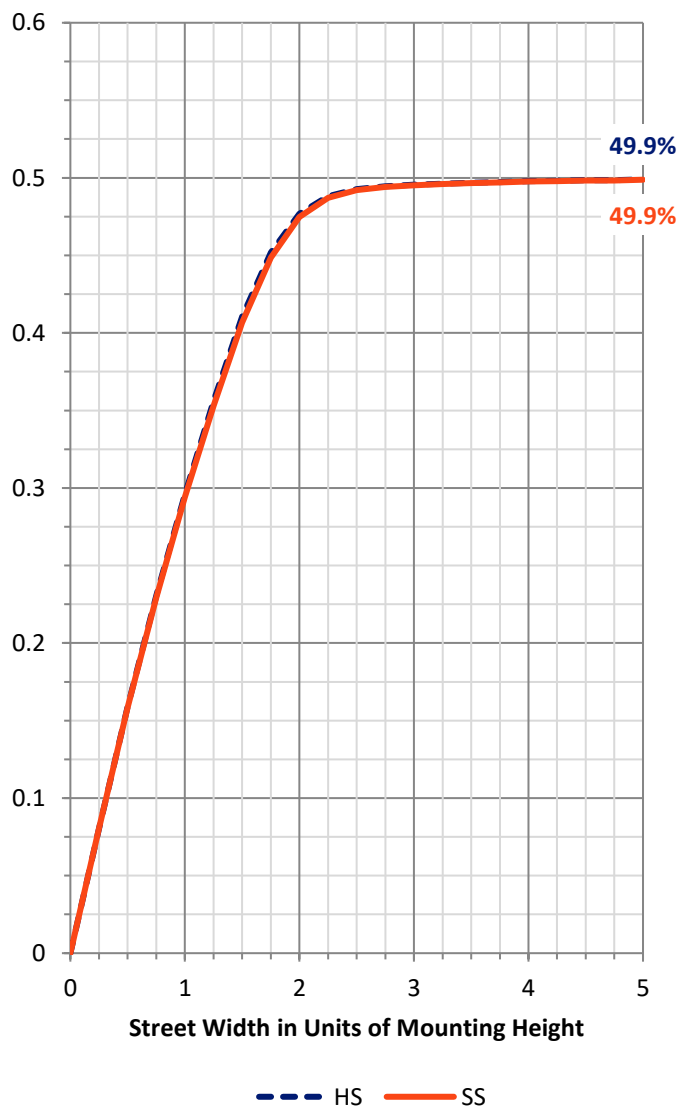
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9218.2	0.0	9218.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9200.7	0.0	9200.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	18418.9	0.0	18418.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.9	1.2
10°-20°	682.9	3.7
20°-30°	1283.5	7.0
30°-40°	2116.7	11.5
40°-50°	3310.4	18.0
50°-60°	5348.7	29.0
60°-70°	4816.2	26.1
70°-80°	570.5	3.1
80°-90°	78.1	0.4
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°	18418.9	100.0
0°-180°	18418.9	100.0

Coefficient of Utilization



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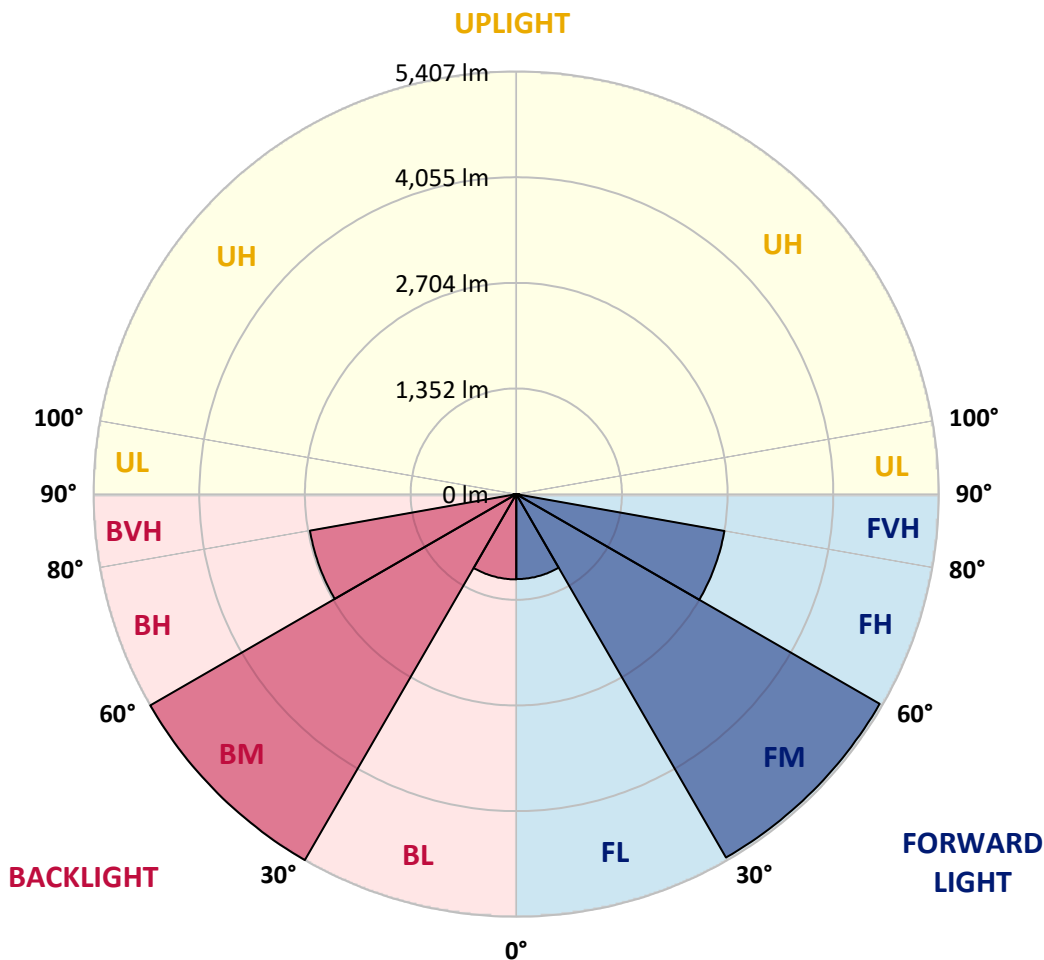
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1087.1	5.9			
FM (30°-60°)	5368.5	29.1			
FH (60°-80°)	2705.0	14.7			G2/5000
FVH (80°-90°)	40.1	0.2			G1/100
BL (0°-30°)	1091.2	5.9	B3/2500		
BM (30°-60°)	5407.3	29.4	B4/8500		
BH (60°-80°)	2681.7	14.6	B4/5000		G2/5000
BVH (80°-90°)	38.0	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2156.5	2156.5	2156.5	2156.5	2156.5	2156.5	2156.5	2156.5	2156.5	2156.5	2156.5
2.5°	2131.1	2135.3	2173.4	2158.6	2171.3	2148.0	2164.9	2200.8	2158.6	2190.3	2200.8
5°	2154.4	2160.7	2160.7	2175.5	2183.9	2179.7	2190.3	2175.5	2215.6	2198.7	2224.1
7.5°	2238.8	2228.3	2211.4	2224.1	2226.2	2236.7	2247.3	2266.3	2260.0	2245.2	2270.5
10°	2253.6	2245.2	2270.5	2272.6	2262.1	2253.6	2264.2	2264.2	2283.2	2287.4	2287.4
12.5°	2279.0	2287.4	2285.3	2302.2	2304.3	2298.0	2314.9	2346.6	2338.1	2344.4	2329.7
15°	2376.1	2365.6	2363.5	2380.4	2407.8	2367.7	2397.3	2395.1	2386.7	2399.4	2365.6
17.5°	2460.6	2426.8	2441.6	2469.1	2458.5	2467.0	2505.0	2471.2	2479.6	2464.8	2454.3
20°	2534.5	2507.1	2509.2	2519.8	2519.8	2545.1	2559.9	2547.2	2538.8	2536.7	2540.9
22.5°	2616.9	2585.2	2587.3	2631.7	2646.5	2638.0	2627.5	2648.6	2652.8	2635.9	2654.9
25°	2678.2	2712.0	2722.5	2743.6	2712.0	2735.2	2726.7	2766.9	2792.2	2758.4	2781.7
27.5°	2838.7	2823.9	2851.4	2849.2	2874.6	2851.4	2866.1	2878.8	2889.4	2891.5	2880.9
30°	2982.3	2988.6	2961.2	3035.1	2976.0	3014.0	3039.3	3045.7	3058.3	3058.3	3026.7
32.5°	3134.4	3121.7	3166.1	3149.2	3138.6	3168.2	3140.7	3227.3	3176.6	3206.2	3170.3
35°	3305.5	3305.5	3322.4	3368.8	3305.5	3286.5	3337.1	3373.0	3373.0	3320.2	3332.9
37.5°	3497.7	3480.8	3501.9	3561.0	3512.4	3449.1	3542.0	3556.8	3546.2	3531.5	3506.1
40°	3632.8	3628.6	3670.9	3749.0	3679.3	3666.6	3683.5	3723.7	3736.3	3751.1	3717.3
42.5°	3860.9	3880.0	4002.5	3983.4	3926.4	3882.1	3877.8	4027.8	3991.9	3953.9	3934.9
45°	4198.9	4182.0	4245.4	4247.5	4173.5	4076.4	4097.5	4234.8	4296.0	4211.6	4243.2
47.5°	4467.1	4475.6	4519.9	4610.7	4439.7	4338.3	4416.4	4638.2	4619.2	4587.5	4617.1
50°	4826.2	4864.2	5003.6	4971.9	4819.8	4695.2	4866.3	5075.4	5098.6	4982.5	4961.4
52.5°	5322.5	5381.7	5457.7	5483.1	5337.3	5293.0	5303.5	5563.3	5506.3	5394.3	5322.5
55°	5757.6	5785.1	5924.5	6133.6	6123.0	5909.7	6032.2	6129.4	5897.0	5666.8	5685.8
57.5°	5943.5	5956.2	6344.8	6763.0	7012.2	7060.8	6921.4	6594.0	6040.7	5597.1	5569.6
60°	5480.9	5601.3	6070.2	7014.3	8152.8	8714.6	7787.4	6646.8	5704.8	5166.2	5126.1
62.5°	4380.5	4386.9	5083.9	6515.9	8862.4	10334.6	8119.0	6150.5	4809.3	4198.9	4038.4
64°	3119.6	3178.7	3979.2	5768.2	8714.6	10993.6	8078.8	5502.1	3964.4	3098.5	2986.5
65°	2238.8	2321.2	3094.2	5007.8	8368.2	10915.4	7958.5	4944.5	3206.2	2365.6	2251.5
67.5°	823.7	857.5	1214.5	2505.0	6009.0	9301.8	6306.8	2718.3	1408.8	1003.3	901.9
70°	382.3	384.4	449.9	827.9	2627.5	6220.2	3009.8	1020.2	530.1	420.3	390.7
72.5°	280.9	287.2	314.7	382.3	773.0	2633.8	988.5	418.2	310.5	274.6	268.2
75°	228.1	232.3	240.8	276.7	356.9	705.4	401.3	289.4	247.1	221.8	213.3
77.5°	175.3	175.3	194.3	211.2	236.6	329.5	266.1	230.2	200.7	175.3	169.0
80°	126.7	128.8	152.1	164.7	160.5	217.5	192.2	190.1	164.7	137.3	126.7
82.5°	73.9	80.3	109.8	118.3	114.1	128.8	139.4	147.8	128.8	95.0	86.6
85°	42.2	44.4	63.4	65.5	65.5	61.3	80.3	88.7	86.6	59.1	52.8
87.5°	12.7	12.7	16.9	16.9	19.0	21.1	31.7	38.0	42.2	29.6	27.5
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):

	95°	105°	115°	125°	135°	136°	145°	155°	165°	175°	180°
0°	2156.5	2156.5	2156.5	2156.5	2156.5	2156.5	2156.5	2156.5	2156.5	2156.5	2156.5
2.5°	2190.3	2158.6	2160.7	2169.1	2141.7	2152.2	2183.9	2160.7	2154.4	2141.7	2135.3
5°	2179.7	2213.5	2200.8	2205.0	2198.7	2169.1	2164.9	2183.9	2194.5	2175.5	2213.5
7.5°	2253.6	2238.8	2221.9	2228.3	2213.5	2238.8	2255.7	2217.7	2236.7	2226.2	2205.0
10°	2295.9	2268.4	2281.1	2276.9	2266.3	2291.6	2274.7	2270.5	2253.6	2230.4	2264.2
12.5°	2310.7	2342.3	2363.5	2327.6	2333.9	2321.2	2310.7	2310.7	2291.6	2285.3	2291.6
15°	2376.1	2403.6	2395.1	2422.6	2386.7	2399.4	2412.0	2380.4	2397.3	2350.8	2386.7
17.5°	2496.5	2473.3	2502.9	2467.0	2479.6	2505.0	2464.8	2464.8	2477.5	2452.2	2420.5
20°	2572.6	2562.0	2551.4	2553.5	2532.4	2555.7	2543.0	2536.7	2517.6	2526.1	2543.0
22.5°	2644.4	2629.6	2633.8	2640.1	2654.9	2644.4	2638.0	2644.4	2597.9	2640.1	2581.0
25°	2733.1	2773.2	2760.5	2788.0	2745.8	2773.2	2771.1	2731.0	2756.3	2739.4	2726.7
27.5°	2880.9	2859.8	2878.8	2845.0	2874.6	2876.7	2851.4	2918.9	2889.4	2885.1	2876.7
30°	3071.0	3056.2	3043.6	3024.5	3047.8	3028.8	3049.9	3056.2	3028.8	3007.7	2967.5
32.5°	3178.7	3218.9	3233.6	3187.2	3189.3	3199.9	3180.8	3161.8	3178.7	3185.1	3178.7
35°	3330.8	3368.8	3377.3	3341.4	3322.4	3375.2	3337.1	3400.5	3345.6	3347.7	3290.7
37.5°	3508.2	3518.8	3590.6	3550.5	3533.6	3508.2	3577.9	3569.5	3582.1	3480.8	3531.5
40°	3708.9	3746.9	3787.0	3685.6	3683.5	3706.8	3702.5	3751.1	3727.9	3713.1	3677.2
42.5°	3928.5	4008.8	4015.1	3947.5	3905.3	3901.1	3922.2	4029.9	4032.0	3934.9	3892.6
45°	4220.0	4308.7	4285.5	4154.5	4108.1	4101.7	4205.2	4251.7	4291.8	4253.8	4217.9
47.5°	4583.3	4642.4	4625.5	4505.1	4355.2	4397.4	4498.8	4644.5	4602.3	4551.6	4509.4
50°	4971.9	5041.6	5005.7	4885.3	4741.7	4741.7	4866.3	5052.2	5039.5	4940.2	4902.2
52.5°	5402.8	5504.2	5586.5	5415.5	5295.1	5314.1	5510.5	5578.1	5546.4	5476.7	5445.0
55°	5723.8	5918.1	6087.1	6095.6	6101.9	6099.8	6150.5	6218.1	5992.1	5880.1	5766.1
57.5°	5645.7	6013.2	6591.9	6984.8	7100.9	7162.2	7145.3	6832.7	6298.3	5930.8	5968.8
60°	5088.1	5687.9	6621.5	7882.4	8727.3	8642.8	8334.4	7098.8	6129.4	5508.4	5430.2
62.5°	4059.5	4781.8	6125.1	8135.9	10463.4	10438.1	8824.4	6484.2	5107.1	4321.4	4272.8
64°	3058.3	3818.7	5464.0	8070.4	11071.7	11097.1	8699.8	5728.1	3996.1	3058.3	2984.4
65°	2340.2	3045.7	4815.6	7935.2	10940.8	10955.5	8353.4	4946.6	3037.2	2171.3	2091.0
67.5°	931.4	1296.8	2612.7	6017.4	9394.7	9354.6	5960.4	2393.0	1161.7	756.1	741.4
70°	397.1	494.2	916.7	2851.4	6289.9	6173.7	2566.2	777.3	430.9	361.2	359.1
72.5°	272.5	302.0	392.9	880.8	2614.8	2553.5	730.8	361.2	293.6	270.4	270.4
75°	219.7	240.8	285.1	369.6	692.8	667.4	344.3	266.1	234.4	217.5	215.4
77.5°	171.1	192.2	223.9	255.6	316.8	314.7	230.2	200.7	181.6	169.0	164.7
80°	135.2	156.3	177.4	181.6	207.0	202.8	156.3	158.4	147.8	122.5	120.4
82.5°	92.9	126.7	141.5	128.8	122.5	122.5	111.9	111.9	103.5	76.0	69.7
85°	57.0	84.5	88.7	76.0	57.0	57.0	61.3	59.1	54.9	40.1	38.0
87.5°	29.6	40.1	35.9	29.6	19.0	19.0	16.9	12.7	12.7	10.6	10.6
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)