

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: P478896

Luminaire Tested: **IFLD-S-SA2E-735-U-5NQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478896
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2E-735-U-5NQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

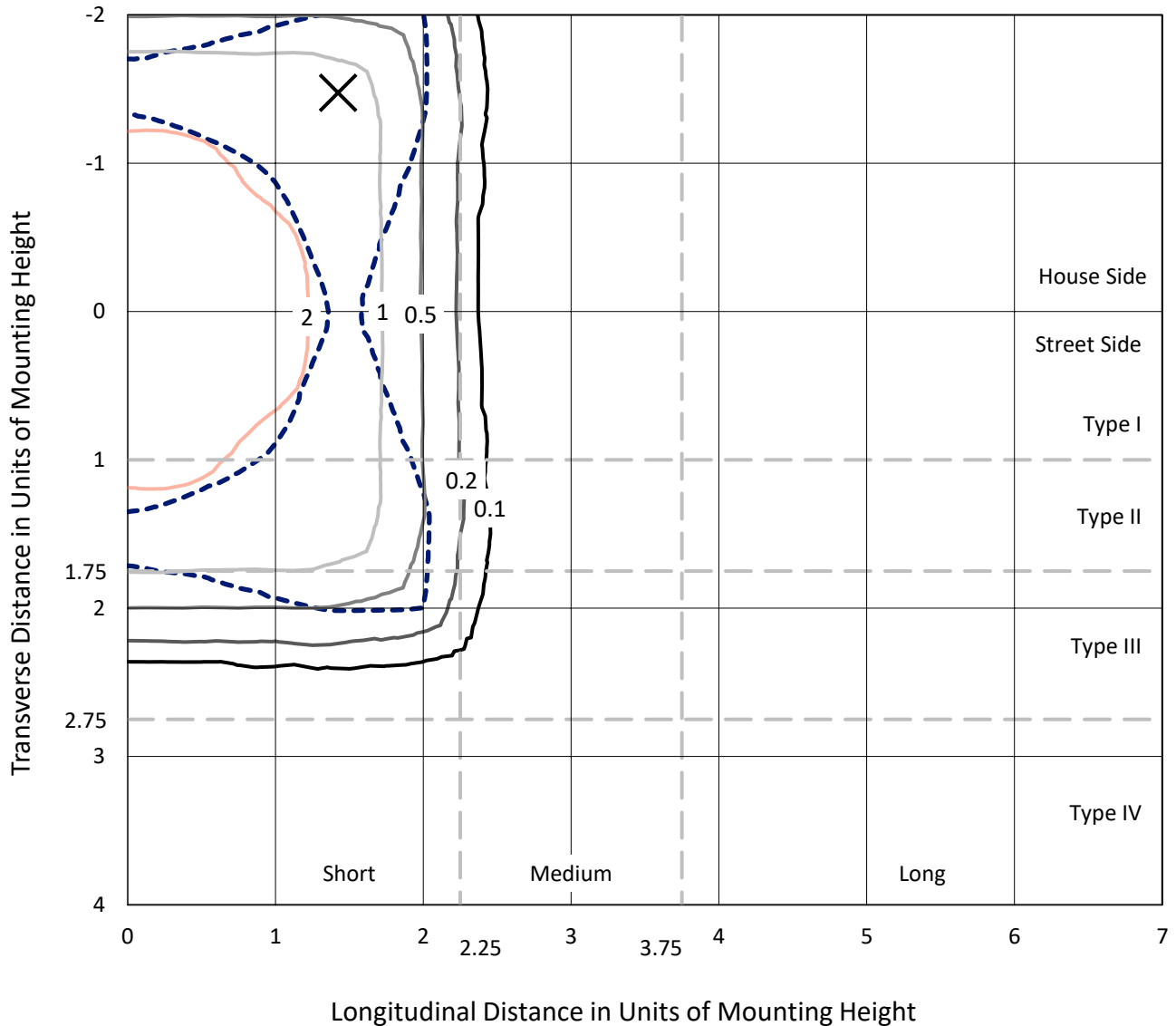
Lumens per Lamp: N/A
Luminaire Lumens: 17804.5 lumens
Efficiency: N/A
Efficacy: 114.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

Input Watts (W): 156.2
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

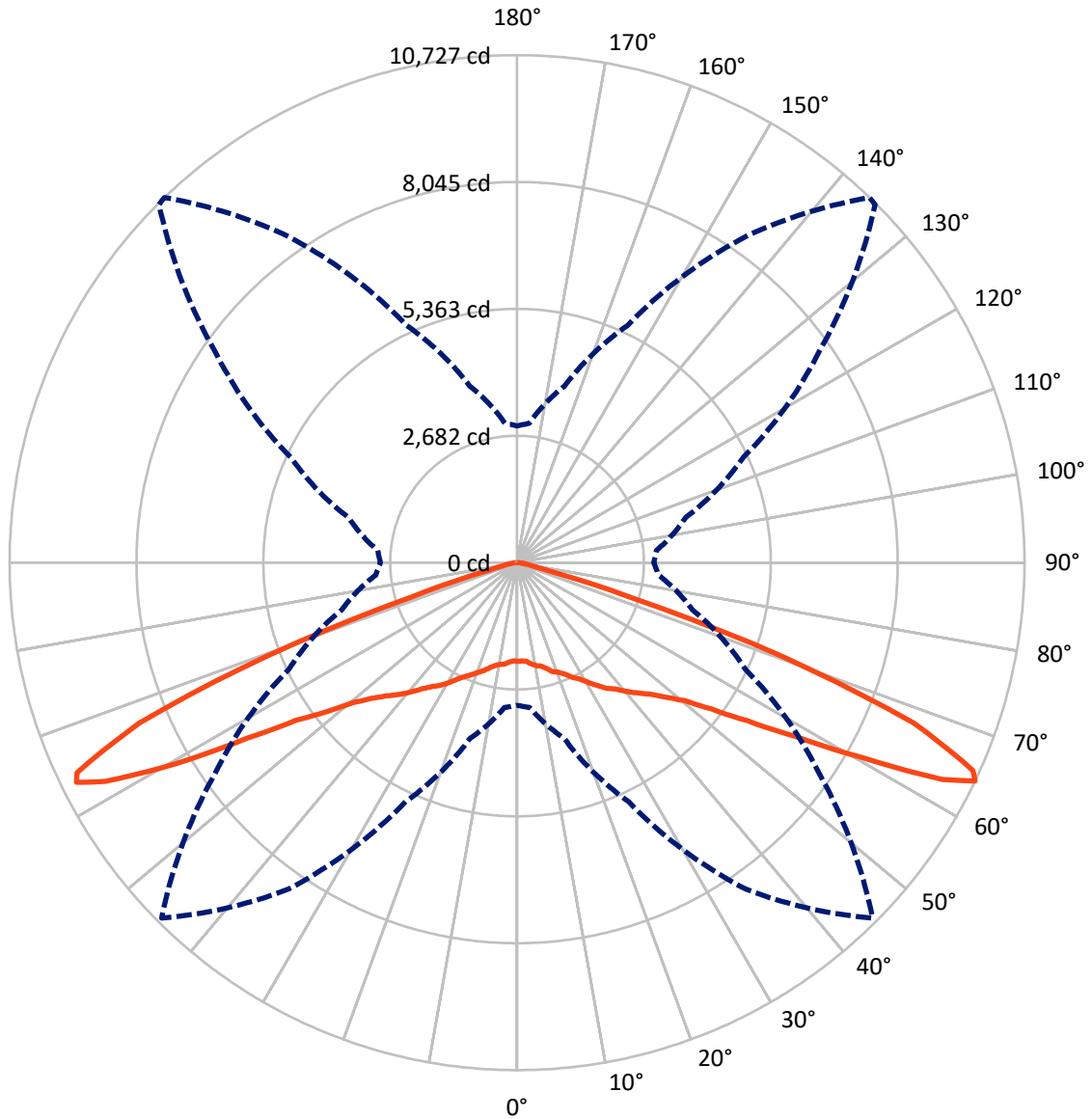
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 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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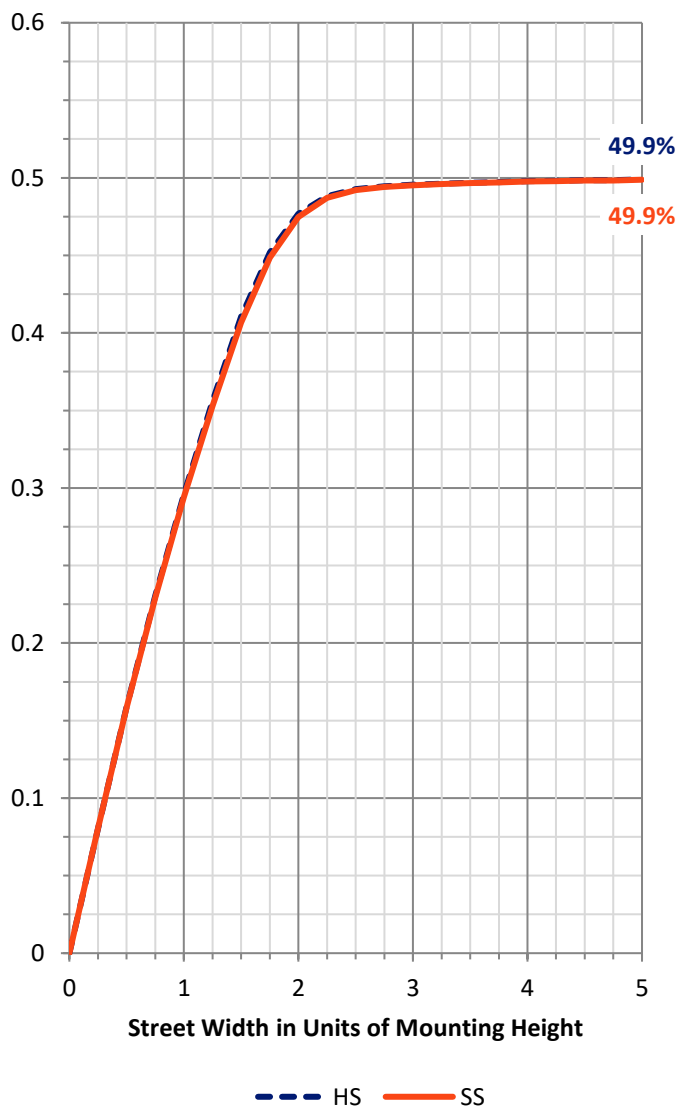
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8910.7	0.0	8910.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8893.8	0.0	8893.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	17804.5	0.0	17804.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.8	1.2
10°-20°	660.1	3.7
20°-30°	1240.7	7.0
30°-40°	2046.1	11.5
40°-50°	3199.9	18.0
50°-60°	5170.3	29.0
60°-70°	4655.5	26.1
70°-80°	551.5	3.1
80°-90°	75.5	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°	17804.5	100.0
0°-180°	17804.5	100.0

Coefficient of Utilization



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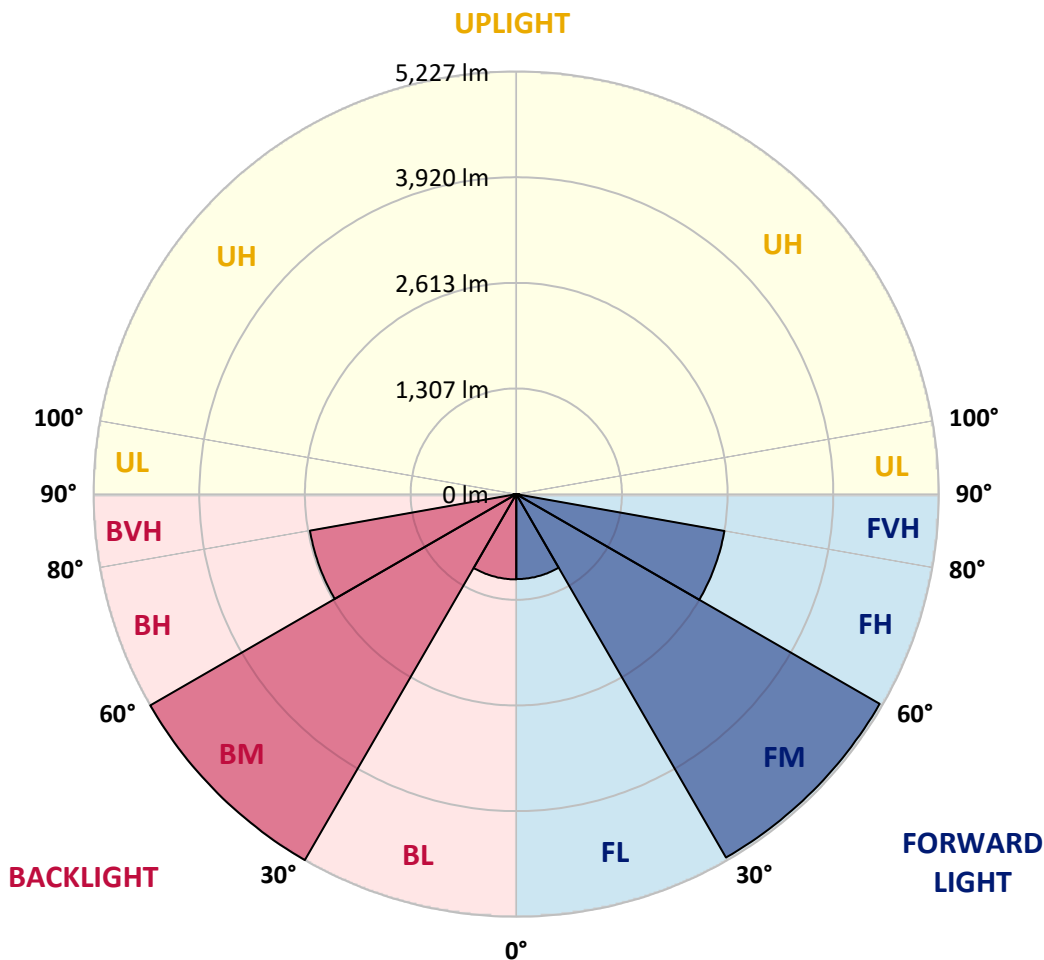
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1050.8	5.9			
FM (30°-60°)	5189.5	29.1			
FH (60°-80°)	2614.8	14.7			G2/5000
FVH (80°-90°)	38.7	0.2			G1/100
BL (0°-30°)	1054.9	5.9	B3/2500		
BM (30°-60°)	5226.9	29.4	B4/8500		
BH (60°-80°)	2592.2	14.6	B4/5000		G2/5000
BVH (80°-90°)	36.8	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°	2084.5	2084.5	2084.5	2084.5	2084.5	2084.5	2084.5	2084.5	2084.5	2084.5	2084.5
2.5°	2060.0	2064.1	2100.9	2086.6	2098.8	2076.4	2092.7	2127.4	2086.6	2117.2	2127.4
5°	2082.5	2088.6	2088.6	2102.9	2111.1	2107.0	2117.2	2102.9	2141.7	2125.4	2149.9
7.5°	2164.2	2154.0	2137.6	2149.9	2151.9	2162.1	2172.3	2190.7	2184.6	2170.3	2194.8
10°	2178.5	2170.3	2194.8	2196.8	2186.6	2178.5	2188.7	2188.7	2207.0	2211.1	2211.1
12.5°	2203.0	2211.1	2209.1	2225.4	2227.5	2221.3	2237.7	2268.3	2260.1	2266.3	2252.0
15°	2296.9	2286.7	2284.6	2301.0	2327.5	2288.7	2317.3	2315.3	2307.1	2319.3	2286.7
17.5°	2378.5	2345.9	2360.2	2386.7	2376.5	2384.7	2421.4	2388.8	2396.9	2382.6	2372.4
20°	2450.0	2423.5	2425.5	2435.7	2435.7	2460.2	2474.5	2462.3	2454.1	2452.0	2456.1
22.5°	2529.6	2499.0	2501.0	2543.9	2558.2	2550.0	2539.8	2560.3	2564.3	2548.0	2566.4
25°	2588.8	2621.5	2631.7	2652.1	2621.5	2644.0	2635.8	2674.6	2699.1	2666.4	2688.9
27.5°	2744.0	2729.7	2756.3	2754.2	2778.7	2756.3	2770.5	2782.8	2793.0	2795.0	2784.8
30°	2882.8	2889.0	2862.4	2933.9	2876.7	2913.5	2938.0	2944.1	2956.3	2956.3	2925.7
32.5°	3029.8	3017.6	3060.5	3044.1	3033.9	3062.5	3036.0	3119.7	3070.7	3099.3	3064.5
35°	3195.2	3195.2	3211.5	3256.5	3195.2	3176.8	3225.8	3260.5	3260.5	3209.5	3221.8
37.5°	3381.0	3364.7	3385.1	3442.3	3395.3	3334.0	3423.9	3438.2	3428.0	3413.7	3389.2
40°	3511.7	3507.6	3548.4	3624.0	3556.6	3544.3	3560.7	3599.5	3611.7	3626.0	3593.3
42.5°	3732.2	3750.5	3869.0	3850.6	3795.5	3752.6	3748.5	3893.5	3858.8	3822.0	3803.6
45°	4058.8	4042.5	4103.8	4105.8	4034.3	3940.4	3960.8	4093.5	4152.8	4071.1	4101.7
47.5°	4318.1	4326.3	4369.2	4457.0	4291.6	4193.6	4269.1	4483.5	4465.1	4434.5	4463.1
50°	4665.2	4702.0	4836.7	4806.1	4659.1	4538.6	4704.0	4906.1	4928.6	4816.3	4795.9
52.5°	5145.0	5202.2	5275.7	5300.2	5159.3	5116.4	5126.6	5377.8	5322.6	5214.4	5145.0
55°	5565.6	5592.1	5726.9	5929.0	5918.8	5712.6	5831.0	5924.9	5700.3	5477.8	5496.2
57.5°	5745.3	5757.5	6133.2	6537.4	6778.3	6825.3	6690.5	6374.1	5839.2	5410.4	5383.9
60°	5298.1	5414.5	5867.8	6780.4	7880.8	8423.9	7527.6	6425.1	5514.5	4993.9	4955.1
62.5°	4234.4	4240.5	4914.3	6298.5	8566.8	9989.9	7848.2	5945.3	4648.9	4058.8	3903.7
64°	3015.5	3072.7	3846.5	5575.8	8423.9	10626.9	7809.4	5318.5	3832.2	2995.1	2886.9
65°	2164.2	2243.8	2991.0	4840.8	8089.1	10551.3	7693.0	4779.5	3099.3	2286.7	2176.4
67.5°	796.3	828.9	1174.0	2421.4	5808.5	8991.5	6096.4	2627.6	1361.8	969.8	871.8
70°	369.5	371.6	434.9	800.3	2539.8	6012.7	2909.4	986.1	512.5	406.3	377.7
72.5°	271.5	277.7	304.2	369.5	747.3	2546.0	955.5	404.3	300.1	265.4	259.3
75°	220.5	224.6	232.8	267.5	345.0	681.9	387.9	279.7	238.9	214.4	206.2
77.5°	169.5	169.5	187.8	204.2	228.7	318.5	257.3	222.5	194.0	169.5	163.3
80°	122.5	124.5	147.0	159.3	155.2	210.3	185.8	183.8	159.3	132.7	122.5
82.5°	71.5	77.6	106.2	114.3	110.3	124.5	134.8	142.9	124.5	91.9	83.7
85°	40.8	42.9	61.3	63.3	63.3	59.2	77.6	85.8	83.7	57.2	51.0
87.5°	12.3	12.3	16.3	16.3	18.4	20.4	30.6	36.8	40.8	28.6	26.5
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°	2084.5	2084.5	2084.5	2084.5	2084.5	2084.5	2084.5	2084.5	2084.5	2084.5	2084.5
2.5°	2117.2	2086.6	2088.6	2096.8	2070.3	2080.5	2111.1	2088.6	2082.5	2070.3	2064.1
5°	2107.0	2139.7	2127.4	2131.5	2125.4	2096.8	2092.7	2111.1	2121.3	2102.9	2139.7
7.5°	2178.5	2164.2	2147.8	2154.0	2139.7	2164.2	2180.5	2143.8	2162.1	2151.9	2131.5
10°	2219.3	2192.8	2205.0	2200.9	2190.7	2215.2	2198.9	2194.8	2178.5	2156.0	2188.7
12.5°	2233.6	2264.2	2284.6	2249.9	2256.0	2243.8	2233.6	2233.6	2215.2	2209.1	2215.2
15°	2296.9	2323.4	2315.3	2341.8	2307.1	2319.3	2331.6	2301.0	2317.3	2272.4	2307.1
17.5°	2413.3	2390.8	2419.4	2384.7	2396.9	2421.4	2382.6	2382.6	2394.9	2370.4	2339.8
20°	2486.8	2476.5	2466.3	2468.4	2448.0	2470.4	2458.2	2452.0	2433.7	2441.8	2458.2
22.5°	2556.2	2541.9	2546.0	2552.1	2566.4	2556.2	2550.0	2556.2	2511.3	2552.1	2494.9
25°	2641.9	2680.7	2668.5	2695.0	2654.2	2680.7	2678.7	2639.9	2664.4	2648.0	2635.8
27.5°	2784.8	2764.4	2782.8	2750.1	2778.7	2780.8	2756.3	2821.6	2793.0	2788.9	2780.8
30°	2968.6	2954.3	2942.0	2923.7	2946.1	2927.8	2948.2	2954.3	2927.8	2907.3	2868.5
32.5°	3072.7	3111.5	3125.8	3080.9	3082.9	3093.1	3074.8	3056.4	3072.7	3078.8	3072.7
35°	3219.7	3256.5	3264.6	3229.9	3211.5	3262.6	3225.8	3287.1	3234.0	3236.0	3180.9
37.5°	3391.2	3401.4	3470.8	3432.0	3415.7	3391.2	3458.6	3450.4	3462.7	3364.7	3413.7
40°	3585.2	3621.9	3660.7	3562.7	3560.7	3583.1	3579.0	3626.0	3603.5	3589.3	3554.5
42.5°	3797.5	3875.1	3881.2	3815.9	3775.0	3771.0	3791.4	3895.5	3897.5	3803.6	3762.8
45°	4079.3	4165.0	4142.5	4016.0	3971.0	3964.9	4065.0	4109.9	4148.7	4111.9	4077.2
47.5°	4430.4	4487.6	4471.3	4354.9	4209.9	4250.8	4348.8	4489.6	4448.8	4399.8	4359.0
50°	4806.1	4873.5	4838.8	4722.4	4583.5	4583.5	4704.0	4883.7	4871.4	4775.5	4738.7
52.5°	5222.6	5320.6	5400.2	5234.8	5118.5	5136.8	5326.7	5392.0	5361.4	5294.0	5263.4
55°	5532.9	5720.8	5884.1	5892.3	5898.4	5896.3	5945.3	6010.7	5792.2	5684.0	5573.8
57.5°	5457.4	5812.6	6372.0	6751.8	6864.1	6923.3	6907.0	6604.8	6088.3	5733.0	5769.8
60°	4918.4	5498.2	6400.6	7619.5	8436.2	8354.5	8056.4	6862.0	5924.9	5324.7	5249.1
62.5°	3924.1	4622.3	5920.8	7864.5	10114.4	10089.9	8530.1	6267.9	4936.8	4177.3	4130.3
64°	2956.3	3691.3	5281.8	7801.2	10702.4	10726.9	8409.6	5537.0	3862.8	2956.3	2884.9
65°	2262.2	2944.1	4655.0	7670.5	10575.8	10590.1	8074.8	4781.6	2935.9	2098.8	2021.3
67.5°	900.4	1253.6	2525.5	5816.7	9081.3	9042.5	5761.6	2313.2	1122.9	730.9	716.6
70°	383.8	477.8	886.1	2756.3	6080.1	5967.8	2480.6	751.3	416.5	349.1	347.1
72.5°	263.4	292.0	379.8	851.4	2527.6	2468.4	706.4	349.1	283.8	261.3	261.3
75°	212.3	232.8	275.6	357.3	669.7	645.2	332.8	257.3	226.6	210.3	208.3
77.5°	165.4	185.8	216.4	247.0	306.3	304.2	222.5	194.0	175.6	163.3	159.3
80°	130.7	151.1	171.5	175.6	200.1	196.0	151.1	153.1	142.9	118.4	116.4
82.5°	89.8	122.5	136.8	124.5	118.4	118.4	108.2	108.2	100.0	73.5	67.4
85°	55.1	81.7	85.8	73.5	55.1	55.1	59.2	57.2	53.1	38.8	36.8
87.5°	28.6	38.8	34.7	28.6	18.4	18.4	16.3	12.3	12.3	10.2	10.2
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)