

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: P478976

Luminaire Tested: **IFLD-S-SA3B-750-U-5NQ**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478976  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3B-750-U-5NQ  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens  
Light Source: (48) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

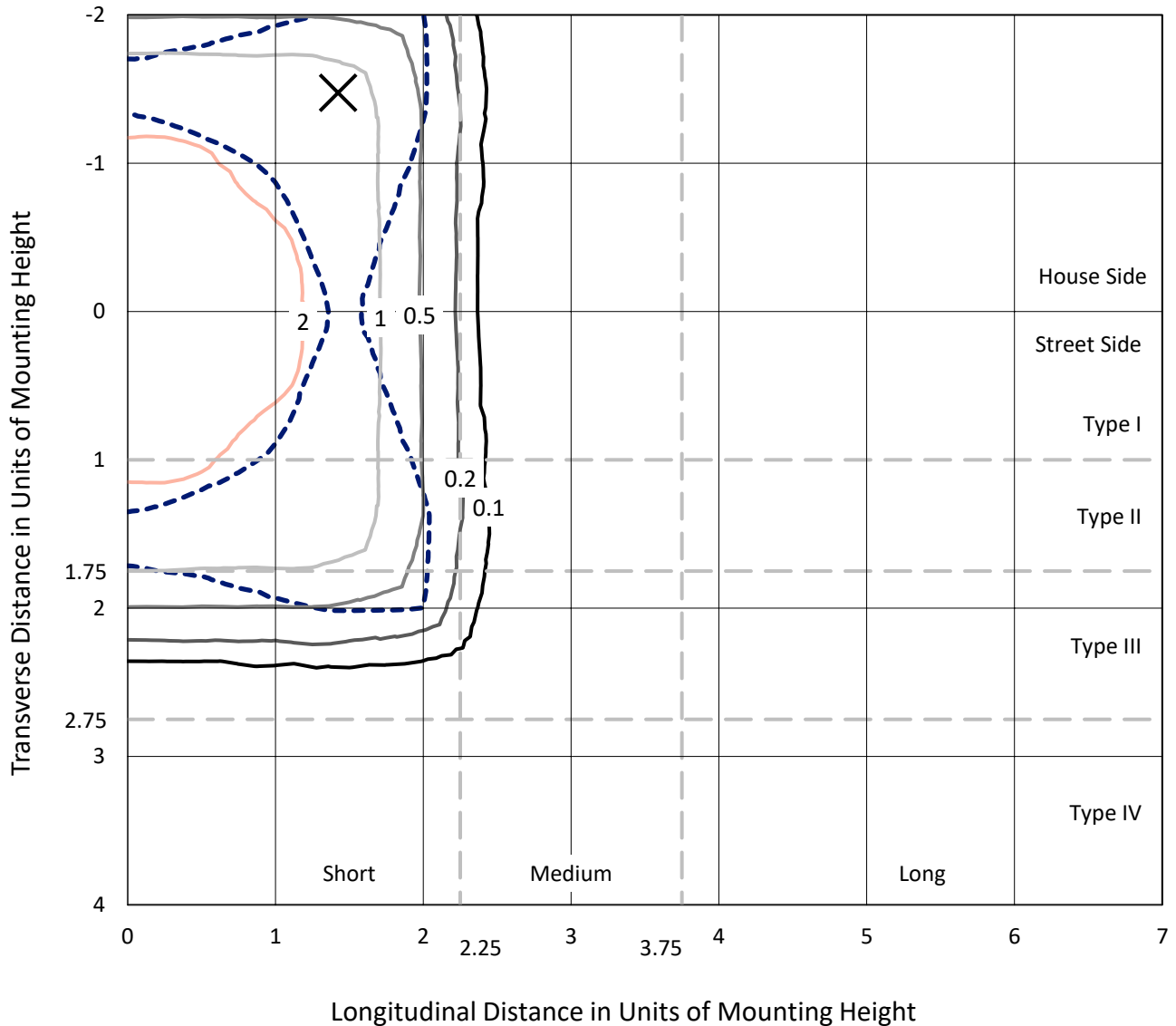
Lumens per Lamp: N/A  
Luminaire Lumens: 17359.8 lumens  
Efficiency: N/A  
Efficacy: 141.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2

Input Watts (W): 122.4  
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

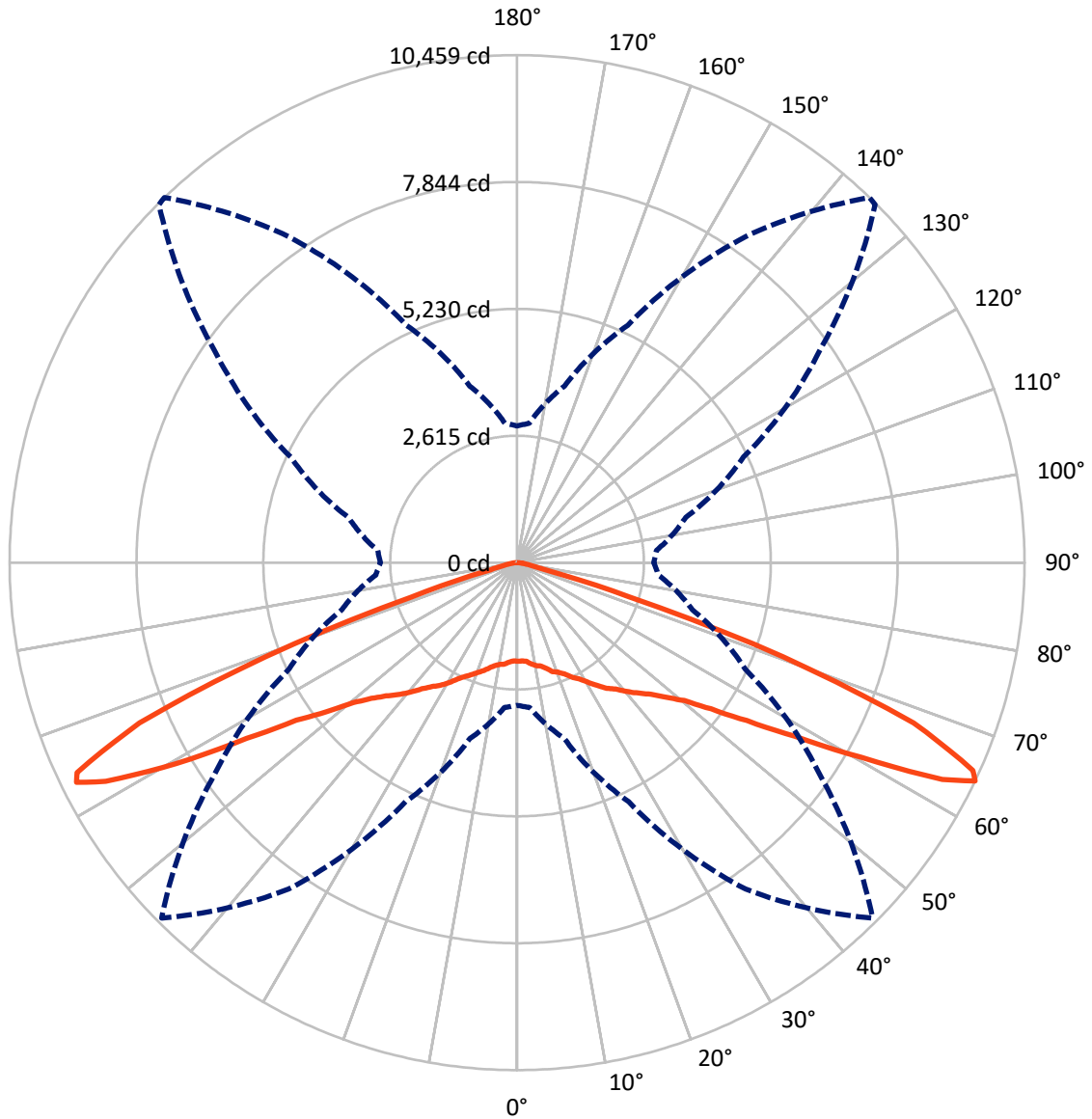
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 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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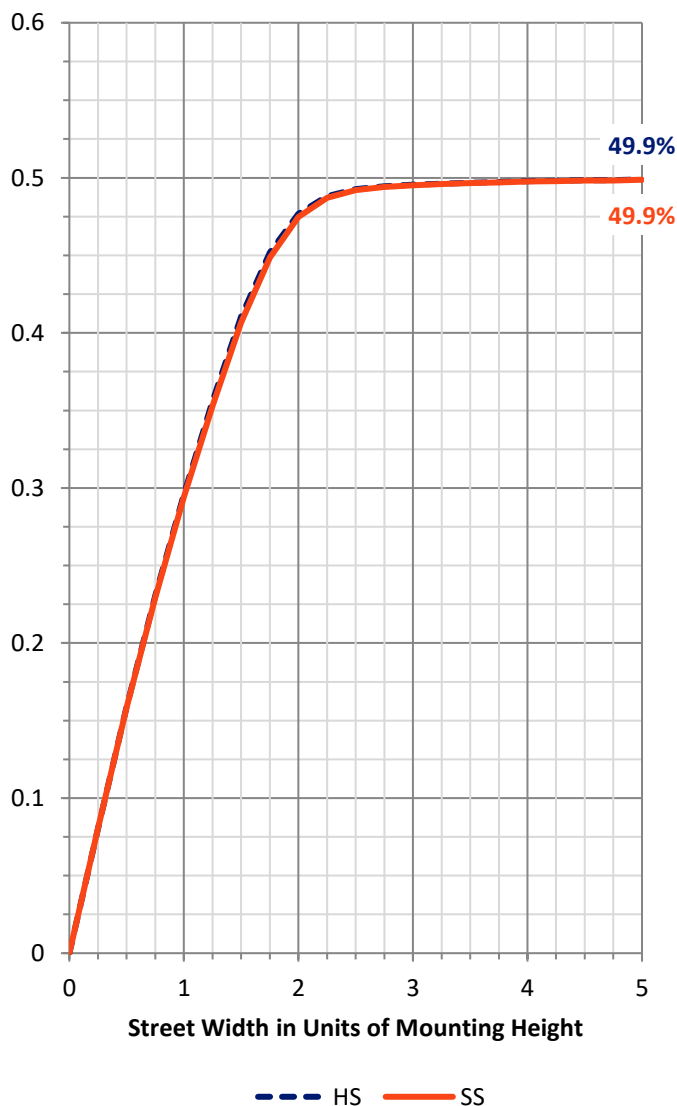
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8688.2	0.0	8688.2
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	8671.6	0.0	8671.6
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	17359.8	0.0	17359.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	199.7	1.2
10°-20°	643.7	3.7
20°-30°	1209.7	7.0
30°-40°	1995.0	11.5
40°-50°	3120.0	18.0
50°-60°	5041.2	29.0
60°-70°	4539.3	26.1
70°-80°	537.7	3.1
80°-90°	73.6	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°	17359.8	100.0
0°-180°	17359.8	100.0

**Coefficient of Utilization**



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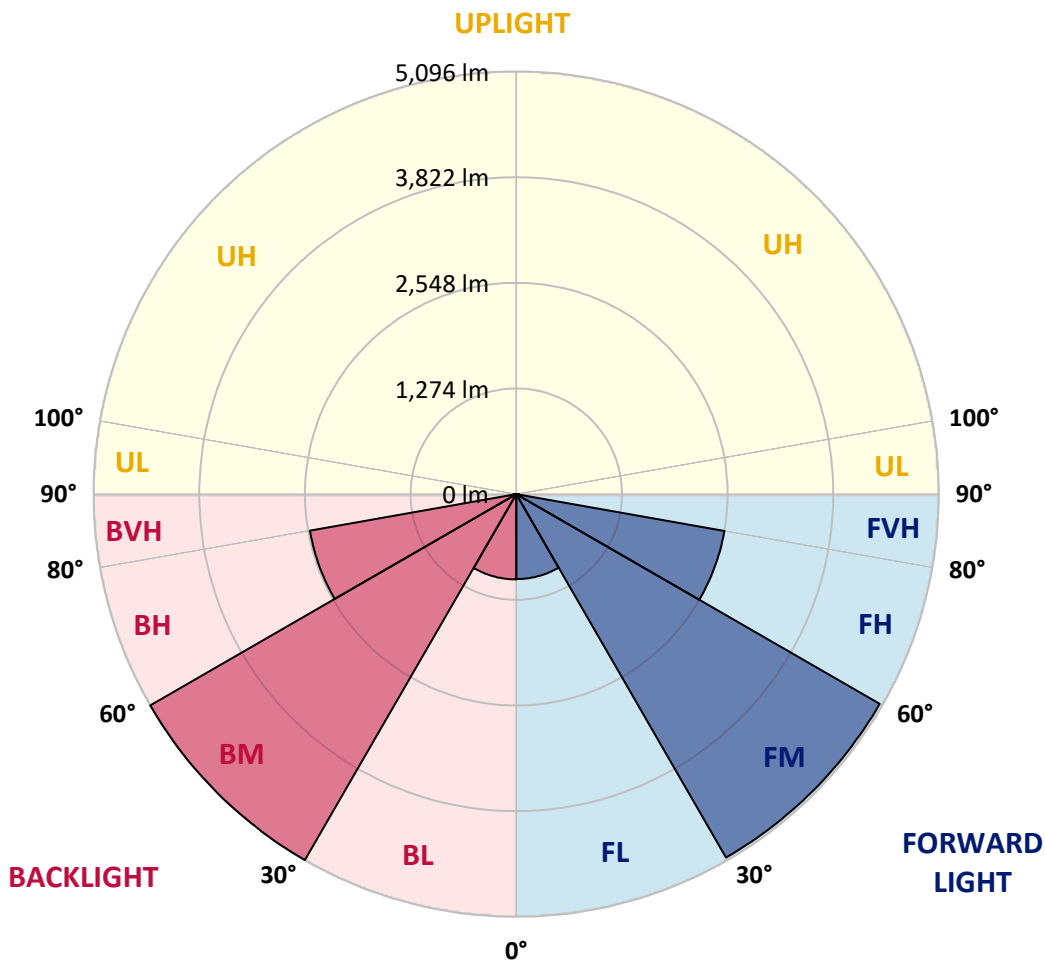
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1024.5	5.9			
FM (30°-60°)	5059.8	29.1			
FH (60°-80°)	2549.5	14.7			G2/5000
FVH (80°-90°)	37.8	0.2			G1/100
BL (0°-30°)	1028.5	5.9	B3/2500		
BM (30°-60°)	5096.4	29.4	B4/8500		
BH (60°-80°)	2527.5	14.6	B4/5000		G2/5000
BVH (80°-90°)	35.8	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°	2032.5	2032.5	2032.5	2032.5	2032.5	2032.5	2032.5	2032.5	2032.5	2032.5	2032.5
2.5°	2008.6	2012.6	2048.4	2034.5	2046.4	2024.5	2040.4	2074.3	2034.5	2064.3	2074.3
5°	2030.5	2036.5	2036.5	2050.4	2058.4	2054.4	2064.3	2050.4	2088.2	2072.3	2096.2
7.5°	2110.1	2100.2	2084.2	2096.2	2098.2	2108.1	2118.1	2136.0	2130.0	2116.1	2140.0
10°	2124.0	2116.1	2140.0	2142.0	2132.0	2124.0	2134.0	2134.0	2151.9	2155.9	2155.9
12.5°	2147.9	2155.9	2153.9	2169.8	2171.8	2165.9	2181.8	2211.6	2203.7	2209.6	2195.7
15°	2239.5	2229.6	2227.6	2243.5	2269.4	2231.5	2259.4	2257.4	2249.5	2261.4	2229.6
17.5°	2319.1	2287.3	2301.2	2327.1	2317.1	2325.1	2360.9	2329.1	2337.0	2323.1	2313.2
20°	2388.8	2362.9	2364.9	2374.9	2374.9	2398.8	2412.7	2400.8	2392.8	2390.8	2394.8
22.5°	2466.4	2436.6	2438.6	2480.4	2494.3	2486.4	2476.4	2496.3	2500.3	2484.4	2502.3
25°	2524.2	2556.0	2566.0	2585.9	2556.0	2577.9	2570.0	2607.8	2631.7	2599.8	2621.7
27.5°	2675.5	2661.5	2687.4	2685.4	2709.3	2687.4	2701.3	2713.3	2723.2	2725.2	2715.3
30°	2810.8	2816.8	2790.9	2860.6	2804.9	2840.7	2864.6	2870.6	2882.5	2882.5	2852.6
32.5°	2954.2	2942.2	2984.0	2968.1	2958.1	2986.0	2960.1	3041.7	2994.0	3021.8	2988.0
35°	3115.4	3115.4	3131.3	3175.1	3115.4	3097.5	3145.3	3179.1	3179.1	3129.3	3141.3
37.5°	3296.6	3280.6	3300.5	3356.3	3310.5	3250.8	3338.4	3352.3	3342.3	3328.4	3304.5
40°	3424.0	3420.0	3459.8	3533.4	3467.8	3455.8	3471.7	3509.6	3521.5	3535.4	3503.6
42.5°	3638.9	3656.9	3772.3	3754.4	3700.7	3658.9	3654.9	3796.2	3762.4	3726.5	3708.6
45°	3957.5	3941.5	4001.3	4003.2	3933.6	3842.0	3861.9	3991.3	4049.0	3969.4	3999.3
47.5°	4210.3	4218.2	4260.0	4345.6	4184.4	4088.8	4162.5	4371.5	4353.6	4323.7	4351.6
50°	4548.7	4584.5	4715.9	4686.0	4542.7	4425.3	4586.5	4783.6	4805.5	4696.0	4676.1
52.5°	5016.5	5072.2	5143.9	5167.8	5030.4	4988.6	4998.6	5243.4	5189.7	5084.2	5016.5
55°	5426.6	5452.5	5583.8	5780.9	5771.0	5569.9	5685.4	5776.9	5558.0	5341.0	5358.9
57.5°	5601.8	5613.7	5980.0	6374.1	6609.0	6654.8	6523.4	6214.9	5693.3	5275.3	5249.4
60°	5165.8	5279.3	5721.2	6611.0	7684.0	8213.5	7339.6	6264.6	5376.8	4869.2	4831.4
62.5°	4128.7	4134.6	4791.5	6141.2	8352.9	9740.4	7652.1	5796.8	4532.8	3957.5	3806.2
64°	2940.2	2996.0	3750.4	5436.5	8213.5	10361.5	7614.3	5185.7	3736.5	2920.3	2814.8
65°	2110.1	2187.7	2916.3	4719.9	7887.0	10287.8	7500.9	4660.2	3021.8	2229.6	2122.1
67.5°	776.4	808.2	1144.6	2360.9	5663.5	8766.9	5944.1	2562.0	1327.8	945.6	850.0
70°	360.3	362.3	424.0	780.3	2476.4	5862.5	2836.7	961.5	499.7	396.1	368.3
72.5°	264.8	270.7	296.6	360.3	728.6	2482.4	931.6	394.2	292.6	258.8	252.8
75°	215.0	219.0	226.9	260.8	336.4	664.9	378.2	272.7	232.9	209.0	201.1
77.5°	165.2	165.2	183.1	199.1	223.0	310.5	250.8	217.0	189.1	165.2	159.3
80°	119.4	121.4	143.3	155.3	151.3	205.0	181.2	179.2	155.3	129.4	119.4
82.5°	69.7	75.6	103.5	111.5	107.5	121.4	131.4	139.3	121.4	89.6	81.6
85°	39.8	41.8	59.7	61.7	61.7	57.7	75.6	83.6	81.6	55.7	49.8
87.5°	11.9	11.9	15.9	15.9	17.9	19.9	29.9	35.8	39.8	27.9	25.9
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°	136°	145°	155°	165°	175°	180°
0°	2032.5	2032.5	2032.5	2032.5	2032.5	2032.5	2032.5	2032.5	2032.5	2032.5	2032.5
2.5°	2064.3	2034.5	2036.5	2044.4	2018.5	2028.5	2058.4	2036.5	2030.5	2018.5	2012.6
5°	2054.4	2086.2	2074.3	2078.3	2072.3	2044.4	2040.4	2058.4	2068.3	2050.4	2086.2
7.5°	2124.0	2110.1	2094.2	2100.2	2086.2	2110.1	2126.0	2090.2	2108.1	2098.2	2078.3
10°	2163.9	2138.0	2149.9	2145.9	2136.0	2159.9	2144.0	2140.0	2124.0	2102.2	2134.0
12.5°	2177.8	2207.7	2227.6	2193.7	2199.7	2187.7	2177.8	2177.8	2159.9	2153.9	2159.9
15°	2239.5	2265.4	2257.4	2283.3	2249.5	2261.4	2273.3	2243.5	2259.4	2215.6	2249.5
17.5°	2353.0	2331.1	2358.9	2325.1	2337.0	2360.9	2323.1	2323.1	2335.1	2311.2	2281.3
20°	2424.6	2414.7	2404.7	2406.7	2386.8	2408.7	2396.8	2390.8	2372.9	2380.8	2396.8
22.5°	2492.3	2478.4	2482.4	2488.3	2502.3	2492.3	2486.4	2492.3	2448.5	2488.3	2432.6
25°	2575.9	2613.8	2601.8	2627.7	2587.9	2613.8	2611.8	2573.9	2597.8	2581.9	2570.0
27.5°	2715.3	2695.4	2713.3	2681.4	2709.3	2711.3	2687.4	2751.1	2723.2	2719.3	2711.3
30°	2894.4	2880.5	2868.6	2850.6	2872.5	2854.6	2874.5	2880.5	2854.6	2834.7	2796.9
32.5°	2996.0	3033.8	3047.7	3003.9	3005.9	3015.9	2998.0	2980.0	2996.0	3001.9	2996.0
35°	3139.3	3175.1	3183.1	3149.2	3131.3	3181.1	3145.3	3205.0	3153.2	3155.2	3101.5
37.5°	3306.5	3316.5	3384.1	3346.3	3330.4	3306.5	3372.2	3364.2	3376.2	3280.6	3328.4
40°	3495.6	3531.5	3569.3	3473.7	3471.7	3493.6	3489.6	3535.4	3513.5	3499.6	3465.8
42.5°	3702.7	3778.3	3784.3	3720.6	3680.8	3676.8	3696.7	3798.2	3800.2	3708.6	3668.8
45°	3977.4	4061.0	4039.1	3915.7	3871.9	3865.9	3963.4	4007.2	4045.0	4009.2	3975.4
47.5°	4319.8	4375.5	4359.6	4246.1	4104.8	4144.6	4240.1	4377.5	4337.7	4289.9	4250.1
50°	4686.0	4751.7	4717.9	4604.4	4469.1	4469.1	4586.5	4761.7	4749.7	4656.2	4620.4
52.5°	5092.1	5187.7	5265.3	5104.1	4990.6	5008.5	5193.7	5257.4	5227.5	5161.8	5132.0
55°	5394.7	5577.9	5737.1	5745.1	5751.1	5749.1	5796.8	5860.5	5647.5	5542.0	5434.5
57.5°	5321.1	5667.4	6212.9	6583.2	6692.6	6750.4	6734.4	6439.8	5936.2	5589.8	5625.6
60°	4795.5	5360.9	6240.8	7429.2	8225.5	8145.8	7855.2	6690.7	5776.9	5191.7	5118.0
62.5°	3826.1	4506.9	5773.0	7668.1	9861.8	9837.9	8317.0	6111.4	4813.4	4072.9	4027.1
64°	2882.5	3599.1	5149.9	7606.4	10435.1	10459.0	8199.6	5398.7	3766.4	2882.5	2812.8
65°	2205.7	2870.6	4538.7	7479.0	10311.7	10325.6	7873.1	4662.2	2862.6	2046.4	1970.8
67.5°	877.9	1222.3	2462.5	5671.4	8854.5	8816.7	5617.7	2255.4	1094.9	712.7	698.7
70°	374.2	465.8	864.0	2687.4	5928.2	5818.7	2418.7	732.6	406.1	340.4	338.4
72.5°	256.8	284.7	370.3	830.1	2464.5	2406.7	688.8	340.4	276.7	254.8	254.8
75°	207.0	226.9	268.7	348.4	652.9	629.1	324.5	250.8	221.0	205.0	203.0
77.5°	161.2	181.2	211.0	240.9	298.6	296.6	217.0	189.1	171.2	159.3	155.3
80°	127.4	147.3	167.2	171.2	195.1	191.1	147.3	149.3	139.3	115.5	113.5
82.5°	87.6	119.4	133.4	121.4	115.5	115.5	105.5	105.5	97.5	71.7	65.7
85°	53.7	79.6	83.6	71.7	53.7	53.7	57.7	55.7	51.8	37.8	35.8
87.5°	27.9	37.8	33.8	27.9	17.9	17.9	15.9	11.9	11.9	10.0	10.0
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)