

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: P478935

Luminaire Tested: **IFLD-S-SA2E-740-U-5NQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478935
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2E-740-U-5NQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

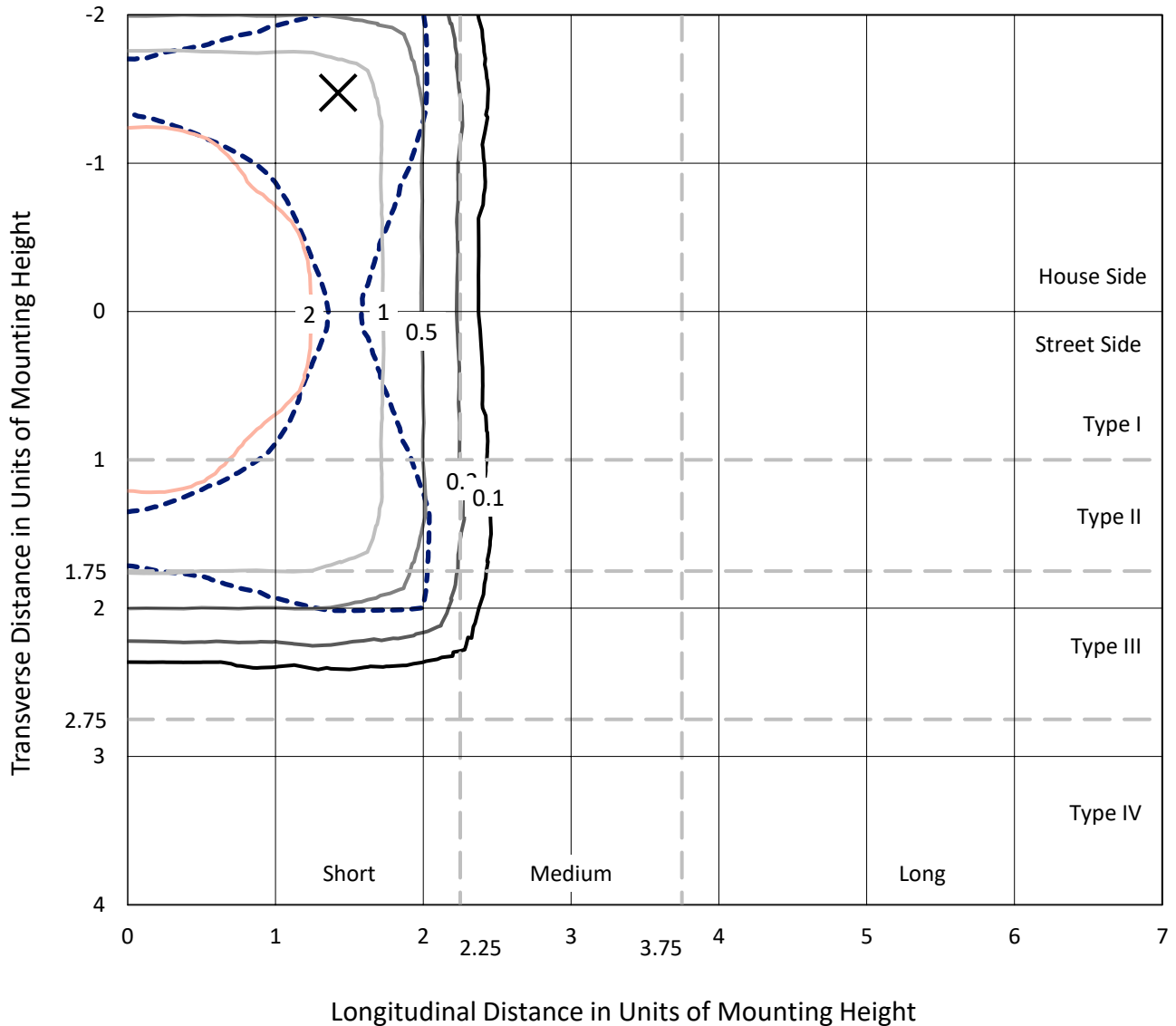
Lumens per Lamp: N/A
Luminaire Lumens: 18051.8 lumens
Efficiency: N/A
Efficacy: 115.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

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

REPORT NUMBER: P478935
 CATALOG NUMBER: IFLD-S-SA2E-740-U-5NQ

Iso-Footcandle Lines of Horizontal Illumination

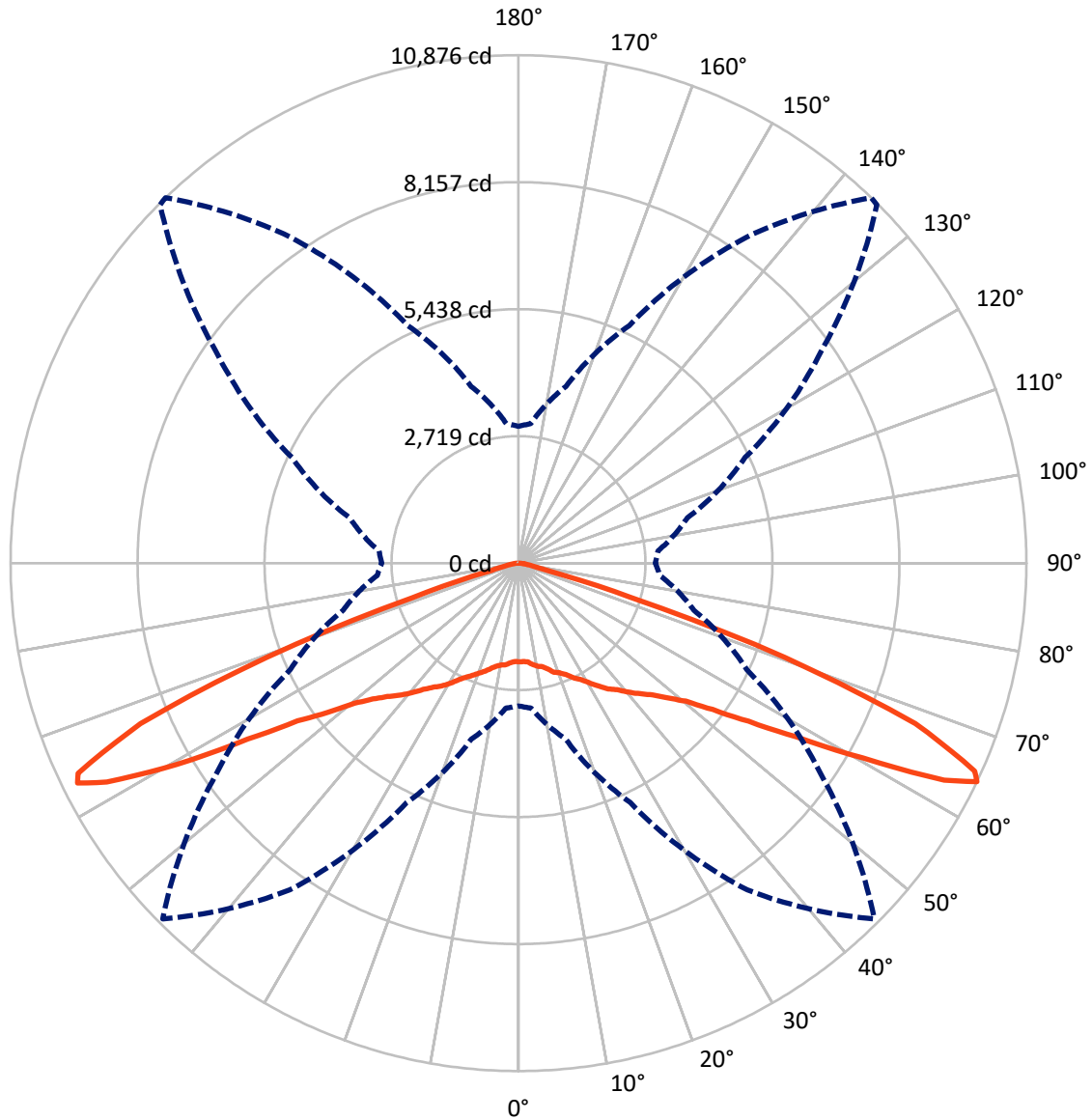
× Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P478935
CATALOG NUMBER: IFLD-S-SA2E-740-U-5NQ

Luminous Intensity Polar Plot



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

REPORT NUMBER: P478935
 CATALOG NUMBER: IFLD-S-SA2E-740-U-5NQ

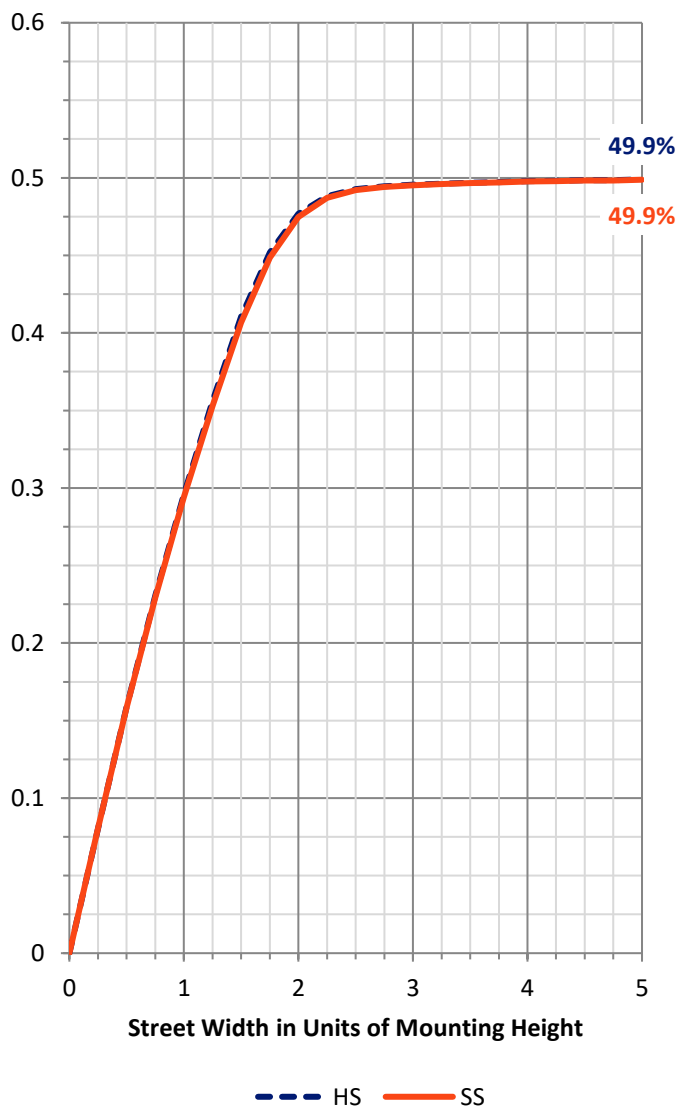
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9034.5	0.0	9034.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9017.3	0.0	9017.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	18051.8	0.0	18051.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	207.7	1.2
10°-20°	669.3	3.7
20°-30°	1257.9	7.0
30°-40°	2074.5	11.5
40°-50°	3244.4	18.0
50°-60°	5242.2	29.0
60°-70°	4720.2	26.1
70°-80°	559.1	3.1
80°-90°	76.5	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°	18051.8	100.0
0°-180°	18051.8	100.0

Coefficient of Utilization



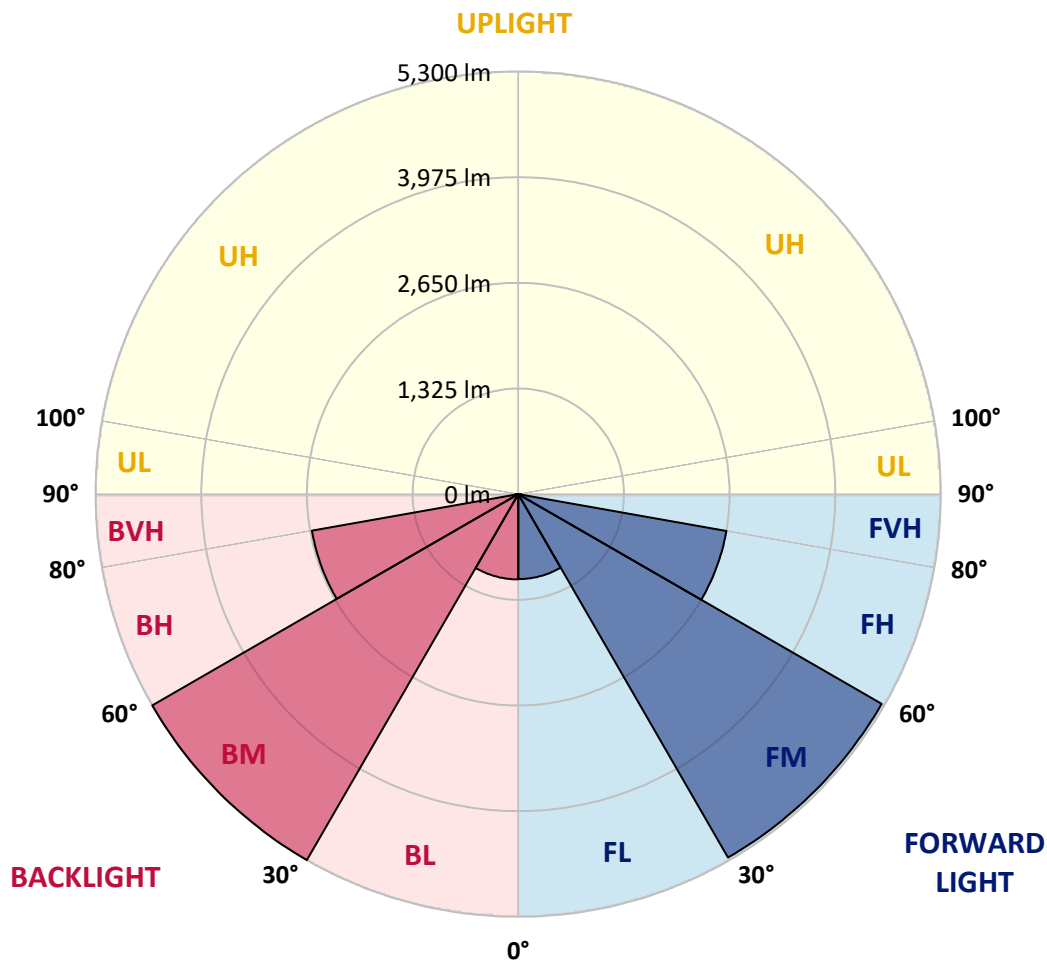
REPORT NUMBER: P478935
 CATALOG NUMBER: IFLD-S-SA2E-740-U-5NQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1065.4	5.9			
FM (30°-60°)	5261.6	29.1			
FH (60°-80°)	2651.1	14.7			G2/5000
FVH (80°-90°)	39.3	0.2			G1/100
BL (0°-30°)	1069.5	5.9	B3/2500		
BM (30°-60°)	5299.5	29.4	B4/8500		
BH (60°-80°)	2628.2	14.6	B4/5000		G2/5000
BVH (80°-90°)	37.3	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





REPORT NUMBER: P478935
 CATALOG NUMBER: IFLD-S-SA2E-740-U-5NQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2113.5	2113.5	2113.5	2113.5	2113.5	2113.5	2113.5	2113.5	2113.5	2113.5	2113.5
2.5°	2088.7	2092.8	2130.1	2115.6	2128.0	2105.2	2121.8	2157.0	2115.6	2146.6	2157.0
5°	2111.4	2117.6	2117.6	2132.1	2140.4	2136.3	2146.6	2132.1	2171.5	2154.9	2179.7
7.5°	2194.2	2183.9	2167.3	2179.7	2181.8	2192.2	2202.5	2221.1	2214.9	2200.4	2225.3
10°	2208.7	2200.4	2225.3	2227.3	2217.0	2208.7	2219.1	2219.1	2237.7	2241.8	2241.8
12.5°	2233.6	2241.8	2239.8	2256.3	2258.4	2252.2	2268.7	2299.8	2291.5	2297.7	2283.2
15°	2328.8	2318.4	2316.4	2332.9	2359.8	2320.5	2349.5	2347.4	2339.1	2351.6	2318.4
17.5°	2411.6	2378.5	2393.0	2419.9	2409.5	2417.8	2455.1	2421.9	2430.2	2415.7	2405.4
20°	2484.0	2457.1	2459.2	2469.5	2469.5	2494.4	2508.9	2496.5	2488.2	2486.1	2490.2
22.5°	2564.8	2533.7	2535.8	2579.3	2593.7	2585.5	2575.1	2595.8	2600.0	2583.4	2602.0
25°	2624.8	2657.9	2668.3	2689.0	2657.9	2680.7	2672.4	2711.7	2736.6	2703.5	2726.2
27.5°	2782.1	2767.6	2794.5	2792.5	2817.3	2794.5	2809.0	2821.4	2831.8	2833.9	2823.5
30°	2922.9	2929.1	2902.2	2974.6	2916.7	2953.9	2978.8	2985.0	2997.4	2997.4	2966.3
32.5°	3071.9	3059.5	3103.0	3086.4	3076.1	3105.0	3078.1	3163.0	3113.3	3142.3	3107.1
35°	3239.6	3239.6	3256.2	3301.7	3239.6	3221.0	3270.6	3305.8	3305.8	3254.1	3266.5
37.5°	3428.0	3411.4	3432.1	3490.1	3442.5	3380.4	3471.4	3485.9	3475.6	3461.1	3436.2
40°	3560.4	3556.3	3597.7	3674.3	3606.0	3593.6	3610.1	3649.5	3661.9	3676.4	3643.2
42.5°	3784.0	3802.6	3922.7	3904.1	3848.2	3804.7	3800.6	3947.5	3912.4	3875.1	3856.5
45°	4115.2	4098.7	4160.8	4162.8	4090.4	3995.2	4015.9	4150.4	4210.4	4127.6	4158.7
47.5°	4378.1	4386.4	4429.9	4518.9	4351.2	4251.8	4328.4	4545.8	4527.1	4496.1	4525.1
50°	4730.0	4767.3	4903.9	4872.8	4723.8	4601.7	4769.3	4974.3	4997.0	4883.2	4862.5
52.5°	5216.5	5274.4	5349.0	5373.8	5231.0	5187.5	5197.8	5452.5	5396.6	5286.8	5216.5
55°	5642.9	5669.8	5806.4	6011.4	6001.0	5791.9	5912.0	6007.2	5779.5	5553.9	5572.5
57.5°	5825.1	5837.5	6218.4	6628.2	6872.5	6920.1	6783.5	6462.6	5920.3	5485.6	5458.7
60°	5371.7	5489.7	5949.3	6874.6	7990.3	8540.9	7632.2	6514.4	5591.1	5063.3	5024.0
62.5°	4293.2	4299.4	4982.6	6386.0	8685.8	10128.6	7957.2	6027.9	4713.5	4115.2	3957.9
64°	3057.4	3115.4	3899.9	5653.2	8540.9	10774.5	7917.9	5392.4	3885.4	3036.7	2927.0
65°	2194.2	2275.0	3032.6	4908.0	8201.4	10697.9	7799.9	4845.9	3142.3	2318.4	2206.6
67.5°	807.3	840.4	1190.3	2455.1	5889.2	9116.4	6181.1	2664.1	1380.7	983.3	883.9
70°	374.7	376.7	440.9	811.5	2575.1	6096.2	2949.8	999.8	519.6	411.9	383.0
72.5°	275.3	281.5	308.4	374.7	757.6	2581.3	968.8	409.9	304.3	269.1	262.9
75°	223.6	227.7	236.0	271.2	349.8	691.4	393.3	283.6	242.2	217.4	209.1
77.5°	171.8	171.8	190.4	207.0	231.8	322.9	260.8	225.6	196.7	171.8	165.6
80°	124.2	126.3	149.0	161.5	157.3	213.2	188.4	186.3	161.5	134.6	124.2
82.5°	72.5	78.7	107.6	115.9	111.8	126.3	136.6	144.9	126.3	93.2	84.9
85°	41.4	43.5	62.1	64.2	64.2	60.0	78.7	86.9	84.9	58.0	51.8
87.5°	12.4	12.4	16.6	16.6	18.6	20.7	31.1	37.3	41.4	29.0	26.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P478935
 CATALOG NUMBER: IFLD-S-SA2E-740-U-5NQ

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	136°	145°	155°	165°	175°	180°
0°	2113.5	2113.5	2113.5	2113.5	2113.5	2113.5	2113.5	2113.5	2113.5	2113.5	2113.5
2.5°	2146.6	2115.6	2117.6	2125.9	2099.0	2109.4	2140.4	2117.6	2111.4	2099.0	2092.8
5°	2136.3	2169.4	2157.0	2161.1	2154.9	2125.9	2121.8	2140.4	2150.8	2132.1	2169.4
7.5°	2208.7	2194.2	2177.7	2183.9	2169.4	2194.2	2210.8	2173.5	2192.2	2181.8	2161.1
10°	2250.1	2223.2	2235.6	2231.5	2221.1	2246.0	2229.4	2225.3	2208.7	2185.9	2219.1
12.5°	2264.6	2295.7	2316.4	2281.2	2287.4	2275.0	2264.6	2264.6	2246.0	2239.8	2246.0
15°	2328.8	2355.7	2347.4	2374.3	2339.1	2351.6	2364.0	2332.9	2349.5	2303.9	2339.1
17.5°	2446.8	2424.0	2453.0	2417.8	2430.2	2455.1	2415.7	2415.7	2428.1	2403.3	2372.3
20°	2521.3	2510.9	2500.6	2502.7	2482.0	2504.7	2492.3	2486.1	2467.5	2475.8	2492.3
22.5°	2591.7	2577.2	2581.3	2587.5	2602.0	2591.7	2585.5	2591.7	2546.1	2587.5	2529.6
25°	2678.6	2717.9	2705.5	2732.4	2691.0	2717.9	2715.9	2676.5	2701.4	2684.8	2672.4
27.5°	2823.5	2802.8	2821.4	2788.3	2817.3	2819.4	2794.5	2860.8	2831.8	2827.7	2819.4
30°	3009.8	2995.3	2982.9	2964.3	2987.0	2968.4	2989.1	2995.3	2968.4	2947.7	2908.4
32.5°	3115.4	3154.7	3169.2	3123.7	3125.7	3136.1	3117.5	3098.8	3115.4	3121.6	3115.4
35°	3264.4	3301.7	3310.0	3274.8	3256.2	3307.9	3270.6	3332.7	3278.9	3281.0	3225.1
37.5°	3438.3	3448.7	3519.0	3479.7	3463.2	3438.3	3506.6	3498.3	3510.8	3411.4	3461.1
40°	3635.0	3672.2	3711.6	3612.2	3610.1	3632.9	3628.8	3676.4	3653.6	3639.1	3603.9
42.5°	3850.3	3928.9	3935.1	3868.9	3827.5	3823.3	3844.0	3949.6	3951.7	3856.5	3815.1
45°	4135.9	4222.9	4200.1	4071.7	4026.2	4020.0	4121.4	4167.0	4206.3	4169.0	4133.8
47.5°	4492.0	4549.9	4533.4	4415.4	4268.4	4309.8	4409.2	4552.0	4510.6	4460.9	4419.5
50°	4872.8	4941.2	4906.0	4788.0	4647.2	4647.2	4769.3	4951.5	4939.1	4841.8	4804.5
52.5°	5295.1	5394.5	5475.2	5307.5	5189.6	5208.2	5400.7	5466.9	5435.9	5367.6	5336.5
55°	5609.8	5800.2	5965.8	5974.1	5980.3	5978.2	6027.9	6094.2	5872.7	5763.0	5651.2
57.5°	5533.2	5893.4	6460.6	6845.6	6959.4	7019.5	7002.9	6696.5	6172.8	5812.6	5849.9
60°	4986.7	5574.6	6489.5	7725.3	8553.4	8470.6	8168.3	6957.4	6007.2	5398.6	5322.0
62.5°	3978.6	4686.5	6003.1	7973.7	10254.9	10230.1	8648.6	6355.0	5005.3	4235.3	4187.7
64°	2997.4	3742.6	5355.2	7909.6	10851.1	10875.9	8526.4	5613.9	3916.5	2997.4	2924.9
65°	2293.6	2985.0	4719.7	7777.1	10722.7	10737.2	8187.0	4848.0	2976.7	2128.0	2049.3
67.5°	912.9	1271.0	2560.6	5897.5	9207.5	9168.2	5841.6	2345.3	1138.5	741.1	726.6
70°	389.2	484.4	898.4	2794.5	6164.5	6050.7	2515.1	761.8	422.3	354.0	351.9
72.5°	267.0	296.0	385.0	863.2	2562.7	2502.7	716.2	354.0	287.7	265.0	265.0
75°	215.3	236.0	279.5	362.3	679.0	654.1	337.4	260.8	229.8	213.2	211.1
77.5°	167.7	188.4	219.4	250.5	310.5	308.4	225.6	196.7	178.0	165.6	161.5
80°	132.5	153.2	173.9	178.0	202.9	198.7	153.2	155.3	144.9	120.1	118.0
82.5°	91.1	124.2	138.7	126.3	120.1	120.1	109.7	109.7	101.4	74.5	68.3
85°	55.9	82.8	86.9	74.5	55.9	55.9	60.0	58.0	53.8	39.3	37.3
87.5°	29.0	39.3	35.2	29.0	18.6	18.6	16.6	12.4	12.4	10.4	10.4
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)