

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: P481436

Luminaire Tested: **IFLD-S-SA3E-830-U-RW**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P481436  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3E-830-U-RW  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens  
Light Source: (48) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

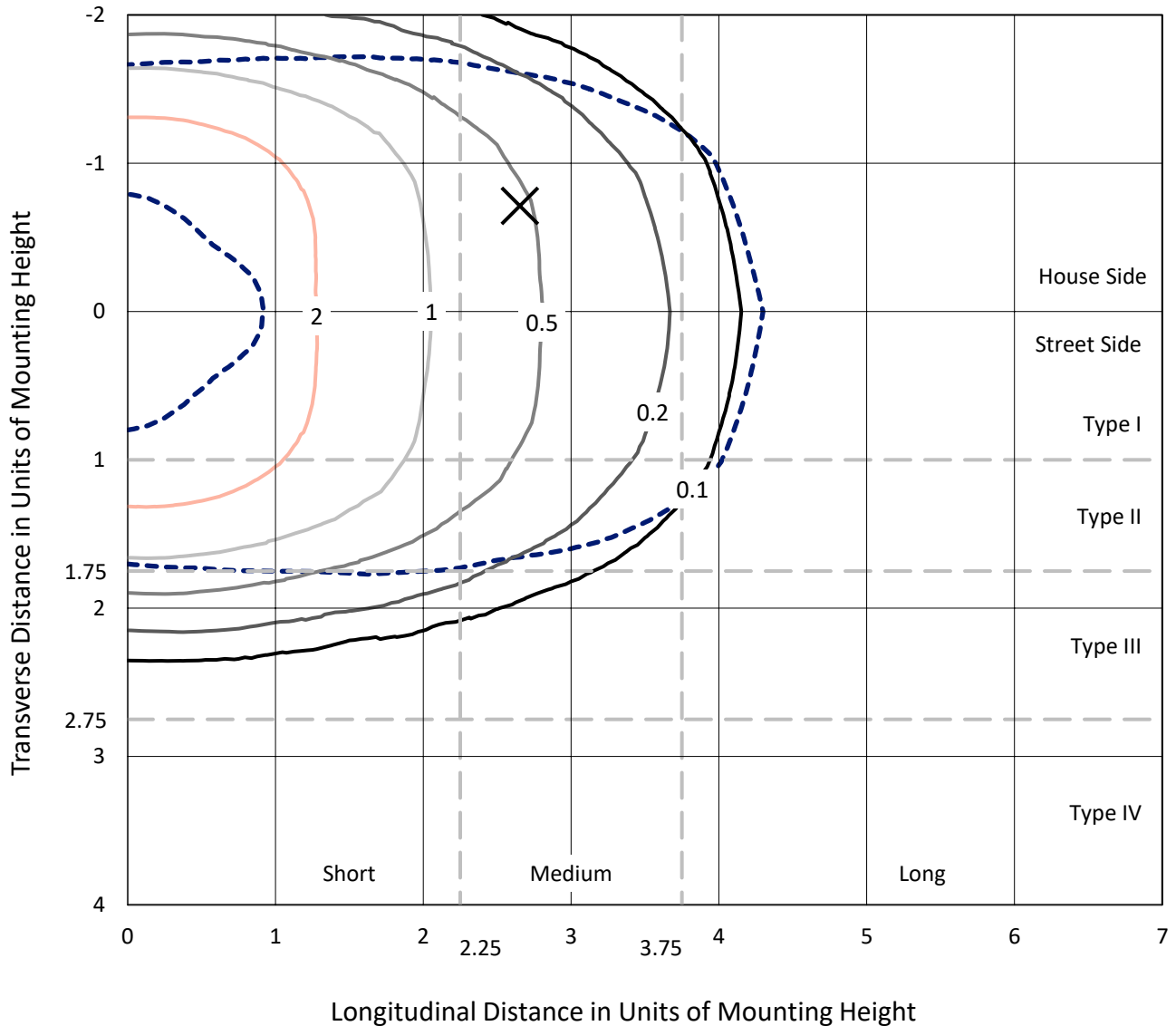
Lumens per Lamp: N/A  
Luminaire Lumens: 22076.6 lumens  
Efficiency: N/A  
Efficacy: 95.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G4

Input Watts (W): 232.1  
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: P481436  
 CATALOG NUMBER: IFLD-S-SA3E-830-U-RW

### Iso-Footcandle Lines of Horizontal Illumination

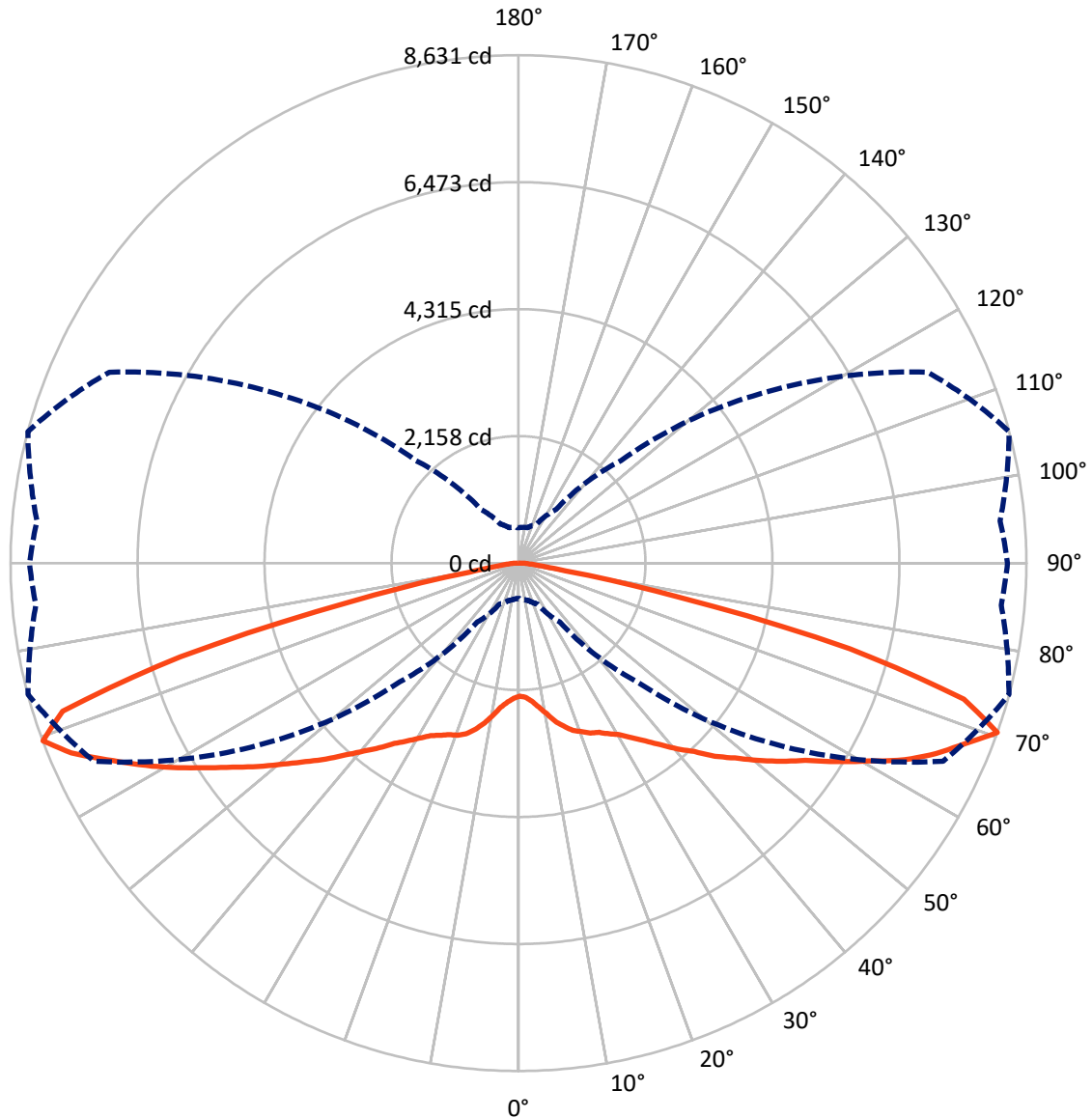
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc  
 Type II - Short - N/A

REPORT NUMBER: P481436  
CATALOG NUMBER: IFLD-S-SA3E-830-U-RW

### Luminous Intensity Polar Plot



— Vertical Plane Through 105-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P481436  
 CATALOG NUMBER: IFLD-S-SA3E-830-U-RW

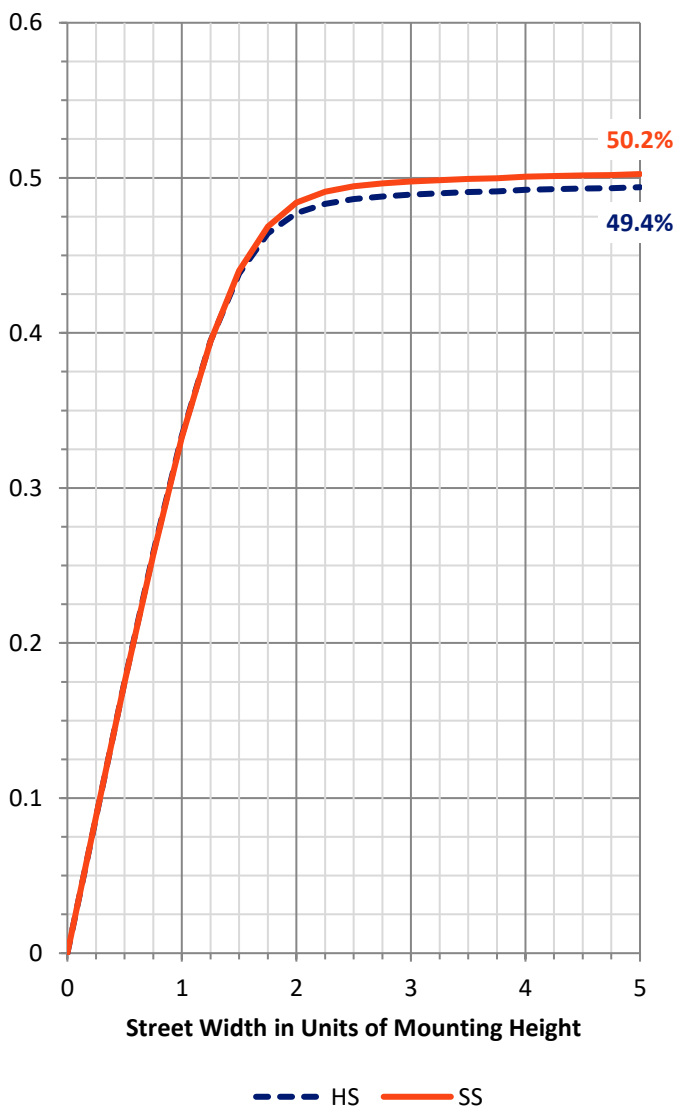
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10959.8	0.0	10959.8
	% Fixture	49.6	0.0	49.6
<b>Street Side</b>	Lumens	11116.8	0.0	11116.8
	% Fixture	50.4	0.0	50.4
<b>Total</b>	Lumens	22076.6	0.0	22076.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	225.0	1.0
10°-20°	766.1	3.5
20°-30°	1483.5	6.7
30°-40°	2509.2	11.4
40°-50°	4002.9	18.1
50°-60°	5479.1	24.8
60°-70°	5164.5	23.4
70°-80°	2275.1	10.3
80°-90°	171.2	0.8
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°	22076.6	100.0
0°-180°	22076.6	100.0

**Coefficient of Utilization**



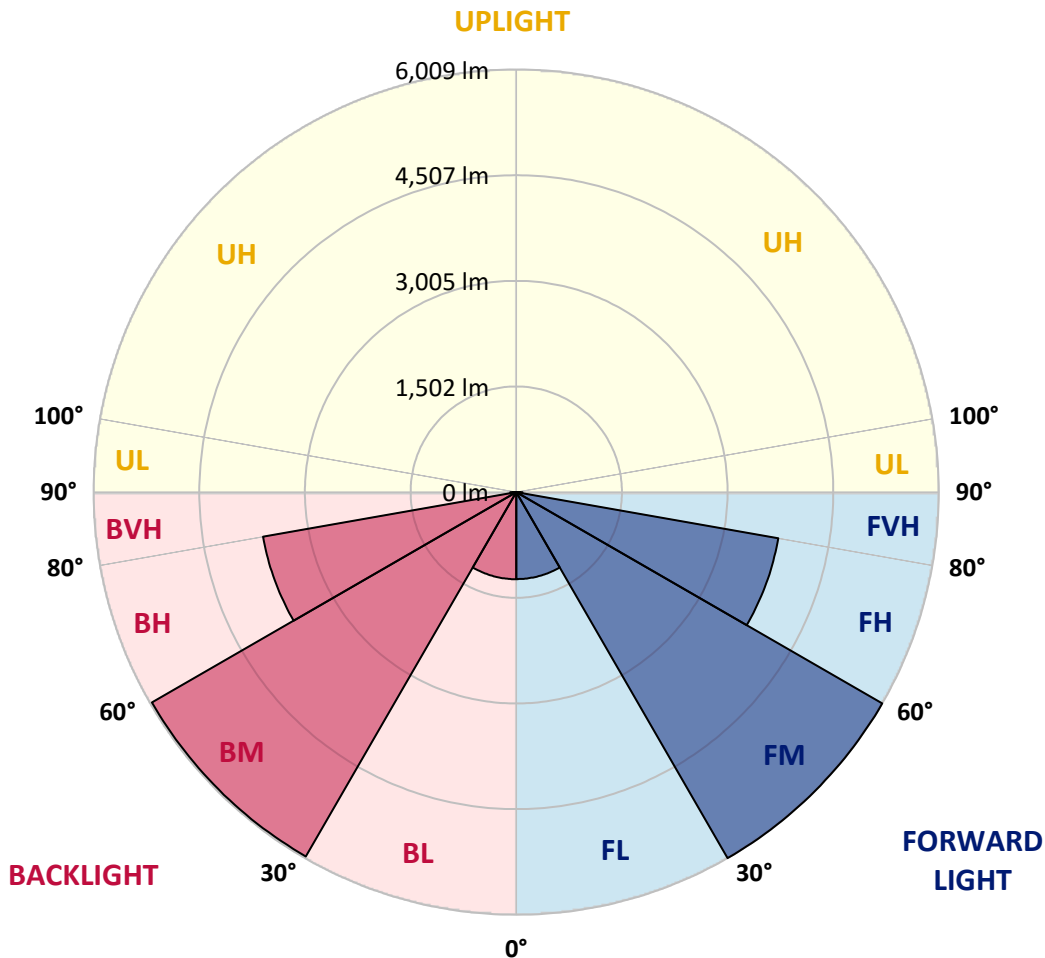
REPORT NUMBER: P481436  
 CATALOG NUMBER: IFLD-S-SA3E-830-U-RW

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1236.6	5.6			
FM (30°-60°)	6009.1	27.2			
FH (60°-80°)	3783.7	17.1			G2/5000
FVH (80°-90°)	87.4	0.4			G1/100
BL (0°-30°)	1238.0	5.6	B3/2500		
BM (30°-60°)	5982.2	27.1	B4/8500		
BH (60°-80°)	3655.9	16.6	B4/5000		G4/5000
BVH (80°-90°)	83.7	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G4**

Type II Short





REPORT NUMBER: P481436

CATALOG NUMBER: IFLD-S-SA3E-830-U-RW

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2260.6	2260.6	2260.6	2260.6	2260.6	2260.6	2260.6	2260.6	2260.6	2260.6	2260.6
2.5°	2246.3	2246.3	2244.0	2255.9	2267.8	2272.5	2282.0	2284.4	2298.7	2286.8	2310.6
5°	2239.2	2236.8	2255.9	2284.4	2284.4	2315.4	2334.4	2360.6	2367.7	2382.0	2386.7
7.5°	2289.2	2284.4	2274.9	2305.8	2332.0	2379.6	2405.8	2451.0	2467.6	2486.7	2508.1
10°	2320.1	2320.1	2310.6	2365.3	2389.1	2453.4	2510.5	2555.7	2619.9	2641.4	2643.7
12.5°	2324.9	2332.0	2360.6	2432.0	2498.6	2581.9	2624.7	2710.4	2774.6	2815.1	2829.3
15°	2396.3	2382.0	2412.9	2510.5	2608.0	2681.8	2758.0	2819.8	2912.6	2965.0	2998.3
17.5°	2460.5	2446.2	2503.3	2619.9	2719.9	2834.1	2900.7	2967.4	3034.0	3081.6	3084.0
20°	2562.8	2574.7	2624.7	2750.8	2881.7	2981.6	3057.8	3069.7	3103.0	3172.0	3160.1
22.5°	2689.0	2679.4	2784.1	2922.2	3064.9	3148.2	3191.0	3160.1	3143.5	3217.2	3233.9
25°	2815.1	2843.6	2938.8	3067.3	3238.6	3350.5	3362.4	3276.7	3214.8	3241.0	3233.9
27.5°	3007.8	3012.6	3112.5	3264.8	3438.5	3536.1	3528.9	3407.6	3288.6	3291.0	3295.7
30°	3255.3	3231.5	3341.0	3479.0	3650.3	3738.4	3750.3	3576.5	3417.1	3369.5	3381.4
32.5°	3493.3	3521.8	3617.0	3774.0	3900.2	3950.1	3924.0	3769.3	3562.3	3498.0	3505.2
35°	3797.8	3793.1	3924.0	4057.2	4152.4	4161.9	4140.5	3914.4	3719.3	3636.0	3602.7
37.5°	4123.9	4166.7	4252.3	4361.8	4461.8	4466.5	4349.9	4169.1	3928.7	3790.7	3831.2
40°	4487.9	4535.5	4597.4	4756.8	4830.6	4754.4	4635.5	4390.4	4140.5	4019.1	4038.2
42.5°	4809.2	4830.6	4956.7	5144.7	5180.4	5147.1	4971.0	4673.5	4383.2	4250.0	4259.5
45°	5104.2	5132.8	5297.0	5465.9	5549.2	5492.1	5287.5	5004.3	4666.4	4552.2	4507.0
47.5°	5375.5	5432.6	5592.1	5765.8	5894.3	5899.0	5646.8	5304.1	4947.2	4797.3	4794.9
50°	5558.8	5642.0	5799.1	5996.6	6184.6	6258.4	6006.1	5637.3	5254.2	5094.7	5078.1
52.5°	5658.7	5744.4	5901.4	6208.4	6417.8	6532.0	6413.0	5949.0	5613.5	5446.9	5420.7
55°	5537.3	5594.4	5851.4	6282.1	6605.8	6793.8	6715.2	6379.7	5970.4	5834.8	5858.6
57.5°	5021.0	5139.9	5456.4	5994.2	6601.0	7062.7	7055.5	6786.6	6382.1	6253.6	6258.4
60°	4133.4	4233.3	4623.6	5375.5	6334.5	7172.1	7424.4	7181.6	6843.7	6693.8	6689.1
62.5°	2917.4	3043.5	3495.6	4316.6	5549.2	7019.8	7847.9	7679.0	7295.9	7186.4	7226.9
65°	1632.4	1708.6	2127.4	2869.8	4228.6	6182.2	7924.1	8195.3	7755.1	7588.6	7595.7
67.5°	873.3	901.9	1097.0	1506.3	2586.6	4766.3	7155.5	8492.8	8252.5	7964.5	7919.3
70°	599.7	609.2	659.1	771.0	1223.1	2850.8	5396.9	7962.1	8626.1	8233.4	8309.6
72.5°	506.9	502.1	514.0	525.9	640.1	1275.5	3167.3	6127.5	8143.0	7995.5	7966.9
75°	440.2	437.8	442.6	430.7	445.0	561.6	1401.6	3819.3	5960.9	6653.4	6760.4
77.5°	364.1	366.5	368.8	356.9	352.2	371.2	564.0	1677.6	2934.0	3238.6	3493.3
80°	276.0	280.8	299.8	287.9	268.9	271.3	333.1	561.6	842.4	763.9	787.6
82.5°	188.0	190.4	230.8	216.5	202.3	183.2	214.2	290.3	328.4	249.9	218.9
85°	133.3	130.9	149.9	138.0	128.5	92.8	128.5	164.2	197.5	123.7	111.8
87.5°	30.9	30.9	61.9	50.0	47.6	38.1	50.0	64.2	85.7	54.7	50.0
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: P481436  
 CATALOG NUMBER: IFLD-S-SA3E-830-U-RW

**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2260.6	2260.6	2260.6	2260.6	2260.6	2260.6	2260.6	2260.6	2260.6	2260.6
2.5°	2303.5	2282.0	2282.0	2277.3	2258.2	2253.5	2236.8	2241.6	2229.7	2217.8
5°	2384.4	2355.8	2355.8	2315.4	2277.3	2272.5	2253.5	2253.5	2234.4	2239.2
7.5°	2496.2	2470.0	2427.2	2391.5	2339.1	2317.7	2282.0	2277.3	2272.5	2263.0
10°	2629.5	2596.1	2553.3	2479.5	2436.7	2396.3	2360.6	2310.6	2298.7	2301.1
12.5°	2810.3	2758.0	2665.2	2600.9	2546.2	2493.8	2441.5	2367.7	2351.0	2358.2
15°	2938.8	2872.2	2779.4	2755.6	2681.8	2617.6	2531.9	2448.6	2420.1	2412.9
17.5°	3043.5	2988.8	2934.0	2898.4	2838.9	2760.3	2641.4	2546.2	2481.9	2474.8
20°	3129.2	3057.8	3045.9	3067.3	2993.5	2941.2	2796.0	2679.4	2593.8	2558.1
22.5°	3181.5	3136.3	3169.6	3188.7	3183.9	3095.9	2945.9	2810.3	2703.2	2669.9
25°	3238.6	3186.3	3305.3	3369.5	3386.2	3241.0	3124.4	2945.9	2841.2	2819.8
27.5°	3267.2	3286.2	3424.2	3559.9	3548.0	3436.1	3279.1	3119.7	3036.4	2998.3
30°	3350.5	3381.4	3590.8	3743.1	3745.5	3636.0	3517.1	3336.2	3243.4	3226.7
32.5°	3500.4	3538.5	3762.2	3924.0	3952.5	3869.2	3750.3	3638.4	3543.2	3505.2
35°	3614.6	3712.2	3964.4	4112.0	4188.1	4138.1	4071.5	3954.9	3855.0	3821.6
37.5°	3778.8	3914.4	4157.2	4357.1	4442.7	4438.0	4388.0	4261.9	4178.6	4150.0
40°	4014.4	4150.0	4371.3	4635.5	4794.9	4787.8	4759.2	4661.6	4537.9	4523.6
42.5°	4264.2	4376.1	4664.0	4966.2	5194.7	5170.9	5094.7	4980.5	4894.8	4875.8
45°	4507.0	4680.7	4947.2	5335.1	5506.4	5565.9	5475.5	5280.3	5182.8	5170.9
47.5°	4811.6	4949.6	5282.7	5630.1	5884.8	5894.3	5739.6	5558.8	5380.3	5418.4
50°	5082.8	5266.1	5604.0	5984.7	6289.3	6179.8	5982.3	5756.3	5627.8	5577.8
52.5°	5373.1	5596.8	5989.5	6377.3	6546.3	6436.8	6115.6	5863.3	5668.2	5646.8
55°	5796.7	5913.3	6427.3	6724.8	6779.5	6548.7	6075.1	5718.2	5465.9	5404.1
57.5°	6227.4	6363.1	6812.8	7069.8	7012.7	6486.8	5813.4	5261.3	4930.5	4842.5
60°	6662.9	6829.5	7207.8	7443.4	7148.3	6060.8	5073.3	4361.8	3976.3	3897.8
62.5°	7148.3	7364.9	7702.8	7786.1	6746.2	5218.5	4026.3	3148.2	2758.0	2627.1
65°	7579.0	7800.3	8216.8	7714.7	5891.9	3893.0	2603.3	1799.0	1511.0	1406.3
67.5°	7933.6	8183.5	8388.1	6827.1	4314.2	2279.7	1356.4	947.1	840.0	801.9
70°	8214.4	8630.8	7674.2	5018.6	2465.3	1111.3	732.9	623.5	609.2	599.7
72.5°	7969.3	7914.6	5730.1	2896.0	1080.3	611.6	530.7	514.0	511.6	514.0
75°	6517.7	5813.4	3426.6	1258.8	542.5	442.6	440.2	433.1	445.0	445.0
77.5°	3162.5	2765.1	1432.5	540.2	356.9	347.4	359.3	359.3	359.3	359.3
80°	732.9	811.4	511.6	328.4	259.4	259.4	285.6	287.9	276.0	271.3
82.5°	249.9	333.1	280.8	207.0	171.3	192.7	216.5	221.3	183.2	185.6
85°	123.7	195.1	152.3	119.0	88.0	119.0	140.4	147.5	126.1	121.4
87.5°	57.1	85.7	57.1	40.5	30.9	42.8	40.5	33.3	19.0	19.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)