

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: P483008

Luminaire Tested: **IFLD-S-SA6B-830-U-T3R-HSS**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P483008  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6B-830-U-T3R-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R  
distribution lens with House Side Shield  
Light Source: (96) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

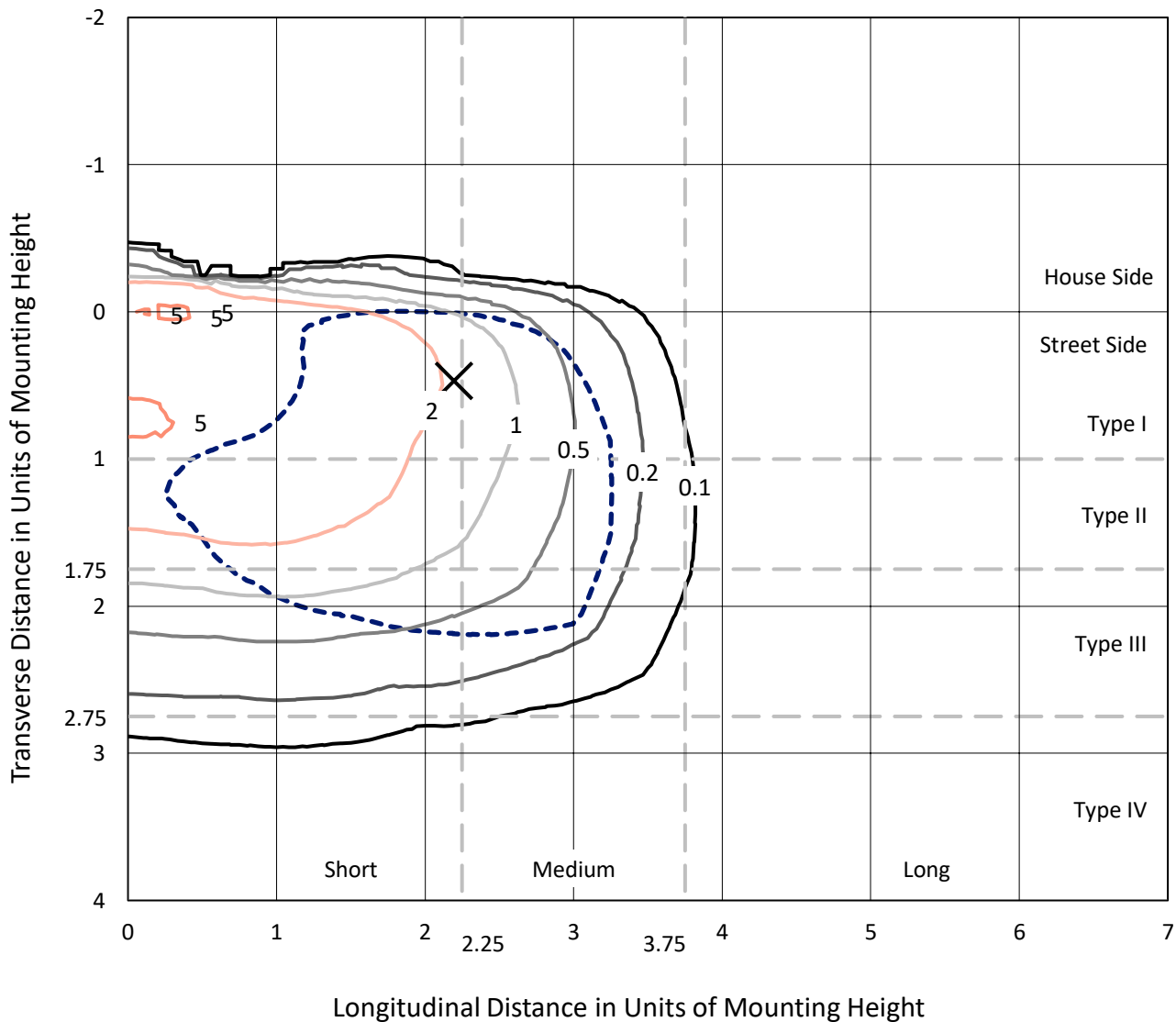
Lumens per Lamp: N/A  
Luminaire Lumens: 19012.5 lumens  
Efficiency: N/A  
Efficacy: 77.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4

Input Watts (W): 244.9  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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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 CATALOG NUMBER: IFLD-S-SA6B-830-U-T3R-HSS

### Iso-Footcandle Lines of Horizontal Illumination

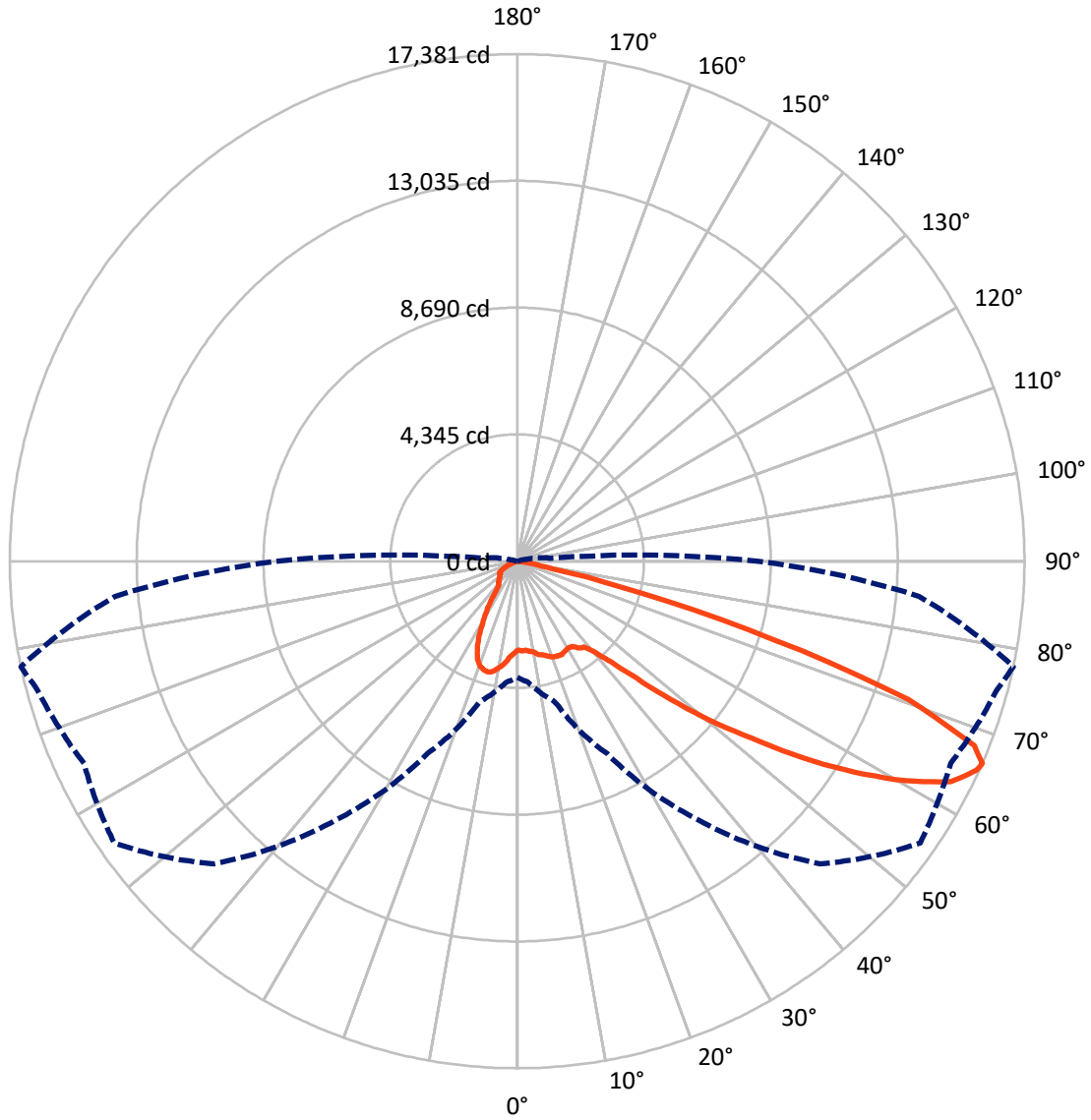
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral    - - - Horizontal Cone Through 66-Deg Vertical

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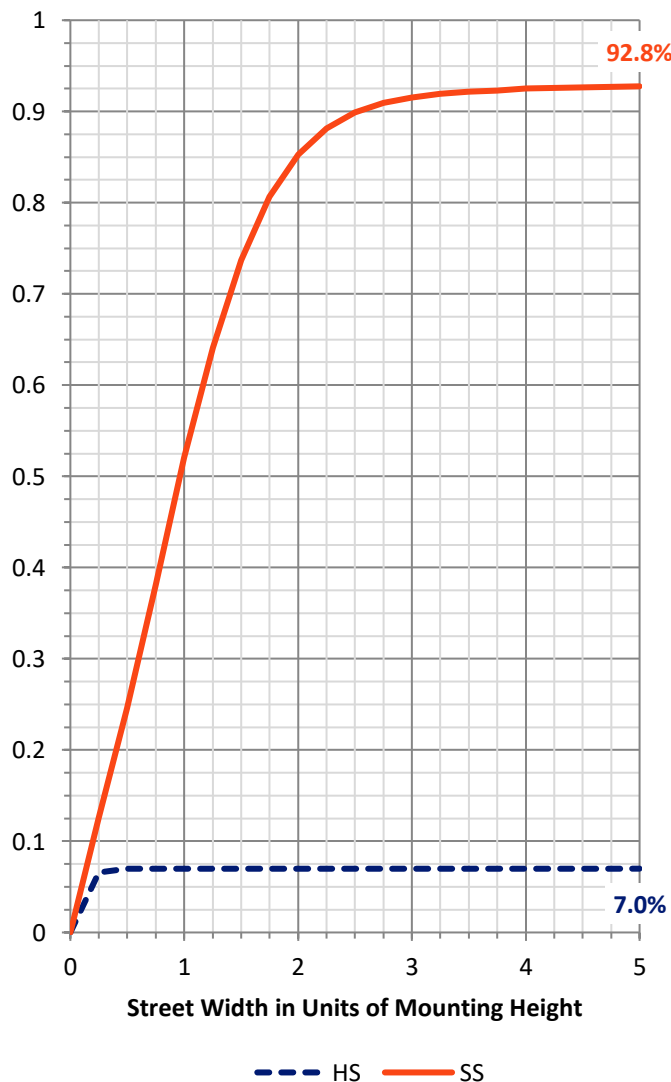
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1336.7	0.0	1336.7
	% Fixture	7.0	0.0	7.0
<b>Street Side</b>	Lumens	17675.9	0.0	17675.9
	% Fixture	93.0	0.0	93.0
<b>Total</b>	Lumens	19012.5	0.0	19012.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	278.6	1.5
10°-20°	628.9	3.3
20°-30°	898.9	4.7
30°-40°	1538.6	8.1
40°-50°	2777.0	14.6
50°-60°	4749.1	25.0
60°-70°	5845.3	30.7
70°-80°	2209.8	11.6
80°-90°	86.3	0.5
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°	19012.5	100.0
0°-180°	19012.5	100.0

**Coefficient of Utilization**

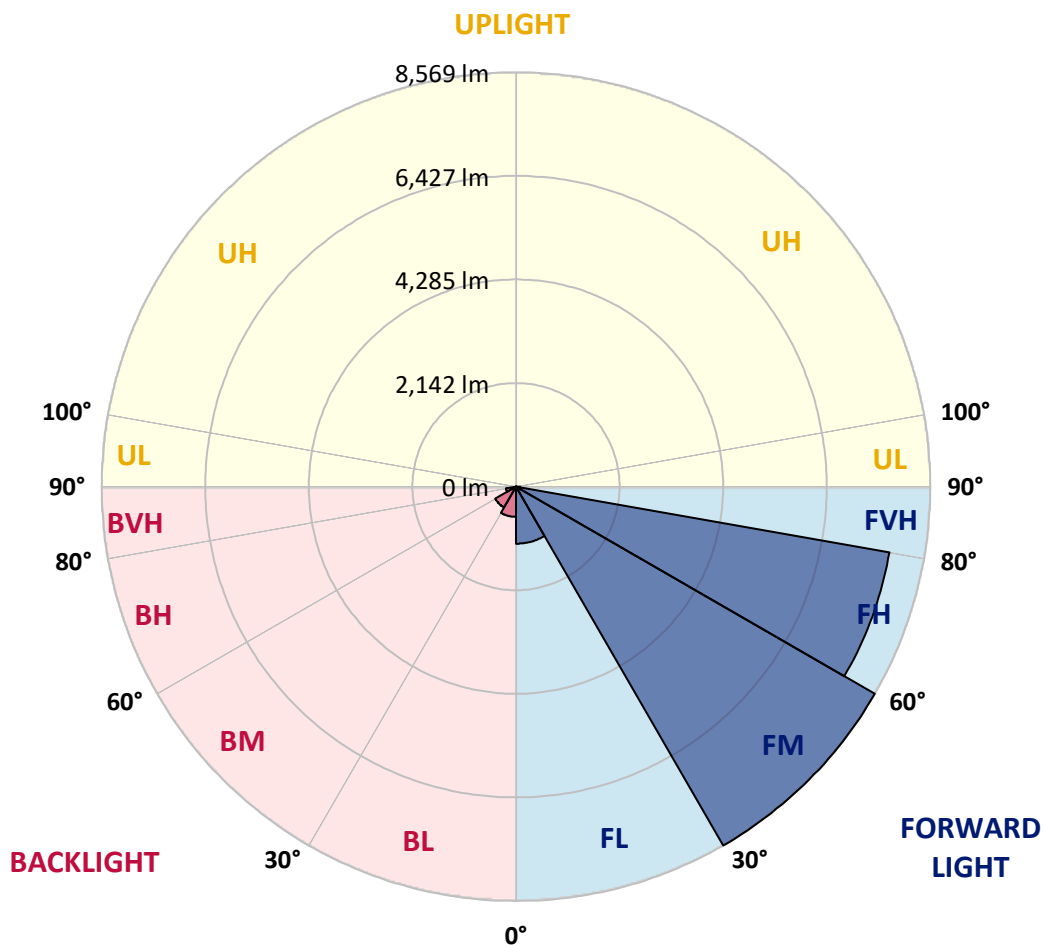


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1180.3	6.2			
FM (30°-60°)	8569.3	45.1			
FH (60°-80°)	7843.4	41.3			G4/12000
FVH (80°-90°)	82.9	0.4			G1/100
BL (0°-30°)	626.0	3.3	B2/1000		
BM (30°-60°)	495.4	2.6	B1/1000		
BH (60°-80°)	211.8	1.1	B1/500		G1/500
BVH (80°-90°)	3.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	3045.2	3045.2	3045.2	3045.2	3045.2	3045.2	3045.2	3045.2	3045.2	3045.2	3045.2
2.5°	2801.0	2775.1	2801.0	2838.3	2858.5	2875.7	2936.0	2987.7	3042.3	3079.7	3068.2
5°	2597.0	2645.9	2651.6	2663.1	2694.7	2798.1	2832.6	2921.7	3056.7	3068.2	3119.9
7.5°	2436.2	2421.8	2459.1	2533.8	2614.3	2674.6	2775.1	2930.3	3071.0	3119.9	3220.4
10°	2203.5	2232.2	2272.4	2347.1	2444.8	2594.2	2772.3	2944.6	3145.7	3163.0	3349.7
12.5°	2077.1	2048.3	2111.5	2189.1	2355.7	2493.6	2711.9	2918.8	3191.7	3286.5	3502.0
15°	1973.6	1988.0	2048.3	2100.0	2237.9	2413.2	2668.9	2982.0	3269.3	3335.3	3662.9
17.5°	1930.5	1921.9	1967.9	2019.6	2189.1	2387.3	2651.6	2984.9	3338.2	3424.4	3772.0
20°	1950.6	1967.9	1953.5	2002.4	2108.7	2309.8	2677.5	3039.4	3389.9	3507.7	3889.8
22.5°	2266.7	2243.7	2128.8	2036.8	2042.6	2278.1	2657.4	3073.9	3435.9	3530.7	3970.2
25°	3091.2	2967.6	2683.2	2329.9	2097.2	2192.0	2634.4	3062.4	3427.3	3545.1	4019.1
27.5°	3921.4	3815.1	3536.4	2987.7	2318.4	2157.5	2553.9	3071.0	3384.2	3493.4	3938.6
30°	4797.6	4855.1	4441.4	3789.3	2898.7	2347.1	2502.2	3025.1	3355.5	3447.4	3955.9
32.5°	5696.8	5673.8	5423.9	4717.2	3728.9	2766.5	2585.5	3071.0	3392.8	3481.9	4056.4
35°	6400.7	6320.2	6067.4	5429.6	4415.5	3398.6	2872.8	3289.4	3556.6	3662.9	4200.1
37.5°	6748.3	6782.7	6636.2	6081.8	5168.2	3984.6	3231.9	3289.4	3608.3	3731.8	4432.8
40°	7018.3	7121.7	7067.1	6889.0	5915.1	4645.4	3628.4	3493.4	3869.7	4102.4	4869.4
42.5°	7342.9	7294.1	7615.9	7452.1	6891.9	5478.5	4323.6	3978.9	4487.4	4711.4	5524.4
45°	7515.3	7702.0	7946.2	8155.9	7796.8	6518.4	5231.4	4837.8	5432.5	5716.9	6498.3
47.5°	7957.7	8032.4	8428.9	8693.2	8532.3	7707.8	6610.4	6093.3	6621.9	7070.0	7613.0
50°	8216.3	8115.7	8670.2	9072.4	9164.3	8693.2	7845.7	7443.5	8035.3	8607.0	8655.8
52.5°	7989.3	8276.6	8831.1	9552.1	9807.8	9572.2	9296.5	9121.2	9537.8	10066.4	9830.8
55°	7193.6	7388.9	8739.1	10077.9	10902.4	10793.2	11048.9	10934.0	11353.4	11913.6	11204.0
57.5°	6552.9	6797.1	7983.6	10350.8	11922.2	12244.0	12565.7	12493.9	12999.5	13645.9	12367.5
60°	6153.6	6294.4	7437.7	10281.8	12525.5	13743.6	14470.4	13964.8	14789.3	15283.4	13278.2
62.5°	5461.2	5550.3	6642.0	9368.3	12706.5	14803.7	16036.1	15349.5	16064.8	16668.1	13933.2
65°	4378.2	4619.5	5521.6	8000.8	11511.4	14999.0	17012.9	16205.6	16897.9	17294.4	14131.4
66°	3984.6	4159.8	4987.2	7276.9	10830.5	14674.4	16849.1	16383.7	17018.6	17380.6	13826.9
67.5°	3306.6	3458.9	4116.8	6245.5	9437.2	13959.1	16964.0	16263.1	17110.5	16889.3	13419.0
70°	2189.1	2286.8	2815.4	4223.1	6573.0	11419.5	15734.5	15320.8	15042.1	14211.9	10491.6
72.5°	1022.7	1163.5	1758.2	2559.7	3855.3	7989.3	12830.0	12275.6	10549.0	9221.8	6619.0
75°	462.5	525.7	965.3	1468.0	1729.4	4139.7	8276.6	7475.1	5251.5	4360.9	2898.7
77.5°	249.9	284.4	471.1	698.1	629.1	1450.8	4096.6	3407.2	1654.7	1212.3	841.7
80°	192.5	227.0	393.6	399.3	232.7	376.3	1522.6	1054.3	413.7	313.1	201.1
82.5°	100.5	143.6	310.3	258.6	117.8	152.3	471.1	293.0	129.3	103.4	86.2
85°	40.2	63.2	175.2	172.4	68.9	51.7	132.1	89.1	51.7	43.1	40.2
87.5°	2.9	2.9	94.8	66.1	43.1	14.4	20.1	20.1	25.9	23.0	28.7
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3045.2	3045.2	3045.2	3045.2	3045.2	3045.2	3045.2	3045.2	3045.2	3045.2	3045.2
2.5°	3119.9	3154.4	3160.1	3254.9	3275.0	3254.9	3306.6	3298.0	3321.0	3303.7	3272.1
5°	3191.7	3240.5	3335.3	3407.2	3407.2	3349.7	3303.7	3243.4	3154.4	3131.4	3114.1
7.5°	3315.2	3470.4	3556.6	3510.6	3418.7	3203.2	2904.4	2686.1	2502.2	2433.3	2401.7
10°	3533.6	3619.8	3720.3	3533.6	3151.5	2694.7	2192.0	1861.6	1603.0	1545.6	1502.5
12.5°	3674.3	3812.2	3869.7	3407.2	2657.4	1976.5	1430.7	1057.2	876.2	738.3	715.3
15°	3858.2	4016.2	3898.4	3065.3	2094.3	1295.6	741.2	462.5	376.3	353.4	353.4
17.5°	3984.6	4157.0	3780.6	2640.1	1485.2	689.5	367.7	318.9	313.1	316.0	310.3
20°	4205.8	4309.2	3602.5	2146.0	887.7	353.4	295.9	284.4	278.7	287.3	281.5
22.5°	4289.1	4383.9	3312.4	1554.2	399.3	235.6	221.2	212.6	218.3	215.5	212.6
25°	4283.4	4332.2	2835.5	890.6	117.8	91.9	83.3	83.3	77.6	80.4	77.6
27.5°	4326.5	4205.8	2301.1	264.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	4349.5	4001.8	1637.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	4360.9	3895.5	1054.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	4450.0	3683.0	451.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	4510.3	3410.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	4760.3	3323.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	5084.9	3163.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	5535.9	2924.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	6133.5	2783.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	6578.8	2562.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	7144.7	2430.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	7817.0	2436.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	8428.9	2395.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	8742.0	2048.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	8675.9	1657.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	8446.1	1301.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	8288.1	1152.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	7808.3	922.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	6213.9	632.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	3953.0	387.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	1821.4	178.1	5.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	571.7	109.2	23.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	149.4	68.9	23.0	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	77.6	48.8	20.1	8.6	5.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	48.8	20.1	8.6	5.7	5.7	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	43.1	11.5	5.7	5.7	2.9	0.0	0.0	0.0	0.0	0.0	0.0
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)