

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: P481610

Luminaire Tested: **IFLD-M-SA4C-730-U-T2-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P481610  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4C-730-U-T2-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield  
Light Source: (64) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

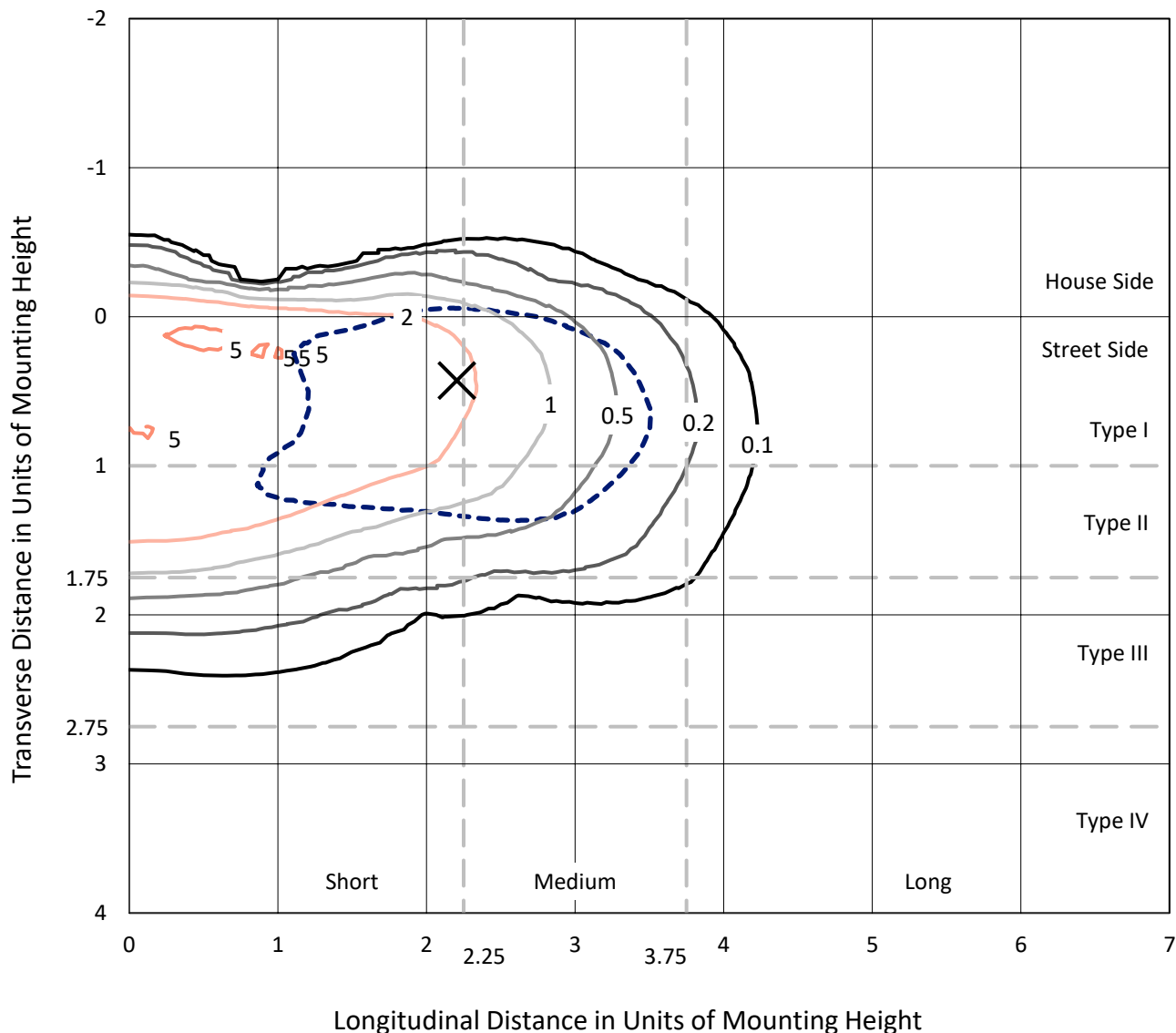
Lumens per Lamp: N/A  
Luminaire Lumens: 18644.3 lumens  
Efficiency: N/A  
Efficacy: 85.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G3

Input Watts (W): 218.1  
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

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### Iso-Footcandle Lines of Horizontal Illumination

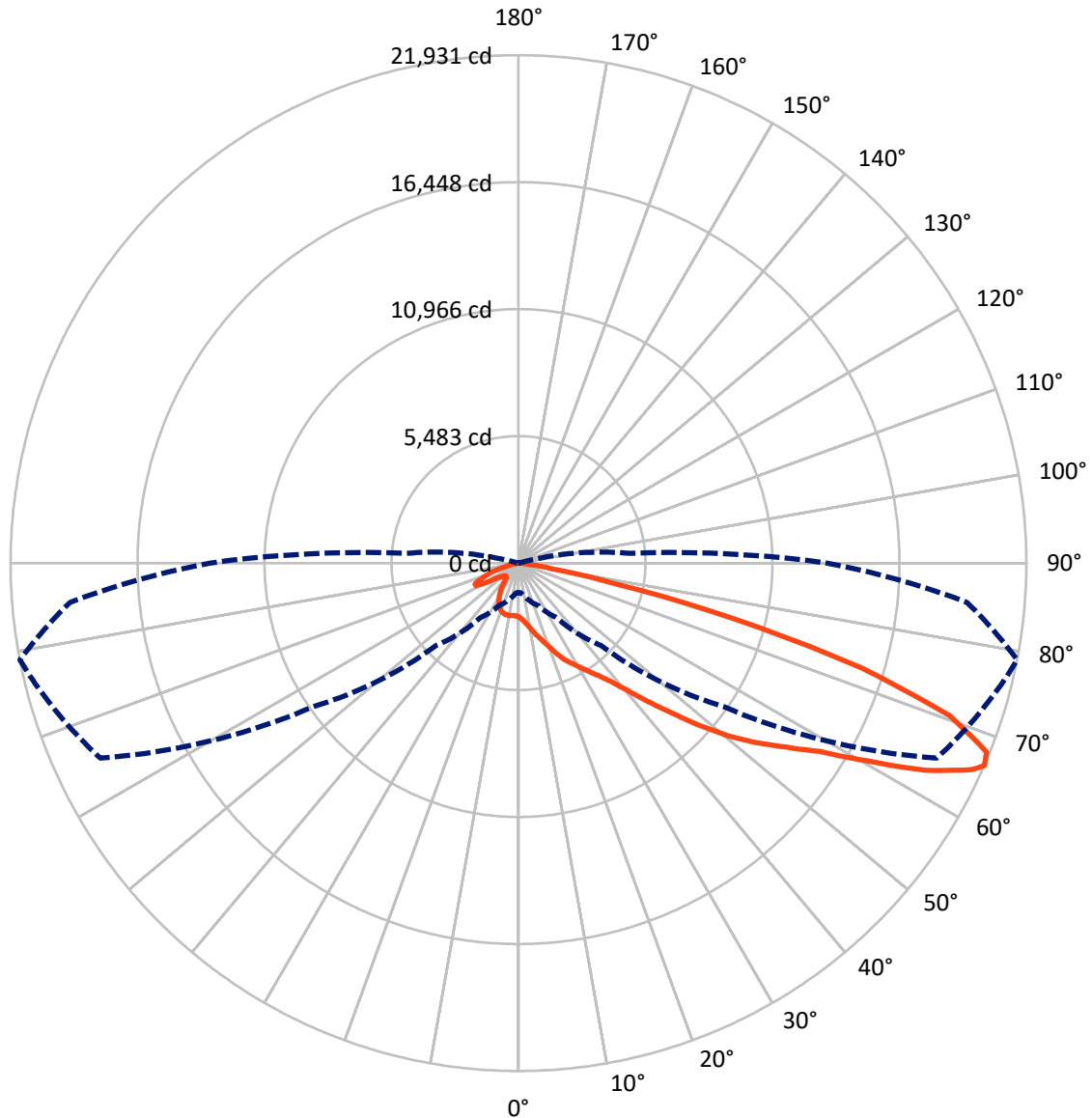
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral      - - - Horizontal Cone Through 66-Deg Vertical

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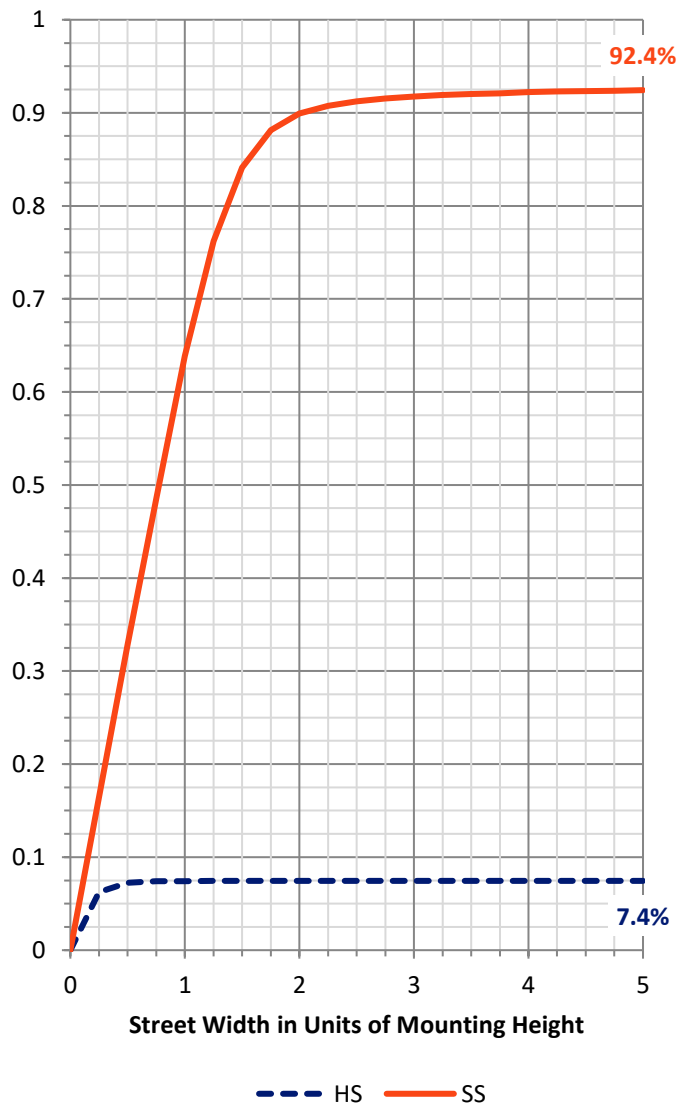
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1399.9	0.0	1399.9
	% Fixture	7.5	0.0	7.5
<b>Street Side</b>	Lumens	17244.4	0.0	17244.4
	% Fixture	92.5	0.0	92.5
<b>Total</b>	Lumens	18644.3	0.0	18644.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	219.4	1.2
10°-20°	603.7	3.2
20°-30°	1003.0	5.4
30°-40°	1722.7	9.2
40°-50°	3120.9	16.7
50°-60°	4933.2	26.5
60°-70°	5019.9	26.9
70°-80°	1914.3	10.3
80°-90°	107.3	0.6
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°	18644.3	100.0
0°-180°	18644.3	100.0

**Coefficient of Utilization**

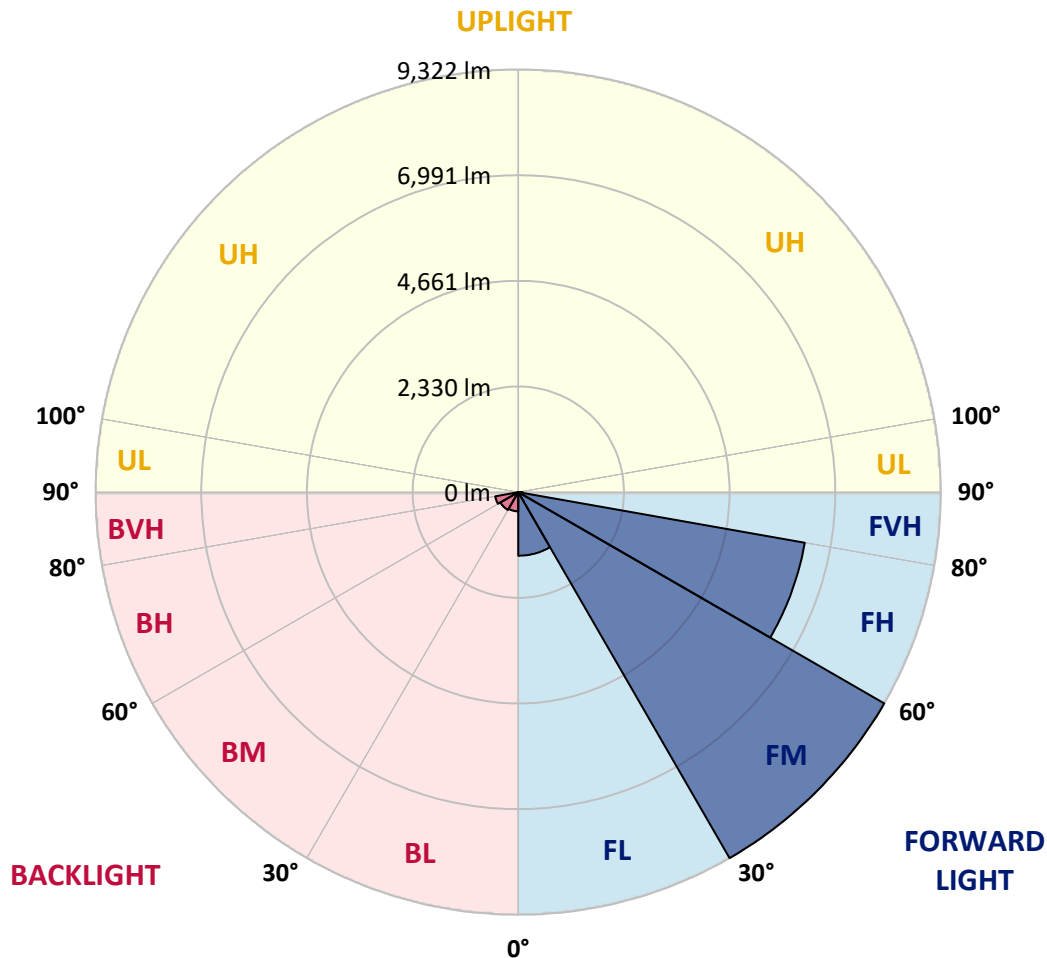


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1402.7	7.5			
FM (30°-60°)	9321.7	50.0			
FH (60°-80°)	6418.1	34.4			G3/7500
FVH (80°-90°)	101.8	0.5			G2/225
BL (0°-30°)	423.4	2.3	B1/500		
BM (30°-60°)	455.0	2.4	B1/1000		
BH (60°-80°)	516.1	2.8	B2/1000		G2/1000
BVH (80°-90°)	5.5	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-G3**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	2319.6	2319.6	2319.6	2319.6	2319.6	2319.6	2319.6	2319.6	2319.6	2319.6	2319.6
2.5°	2627.1	2624.3	2612.8	2592.6	2566.8	2558.1	2520.8	2469.0	2440.3	2408.7	2394.3
5°	2808.2	2793.8	2828.3	2814.0	2819.7	2750.7	2704.7	2667.4	2558.1	2515.0	2446.0
7.5°	2848.4	2862.8	2859.9	2882.9	2905.9	2931.8	2900.2	2845.6	2736.4	2673.1	2598.4
10°	2848.4	2842.7	2865.7	2897.3	2963.4	3020.9	3107.1	3035.3	2951.9	2877.2	2742.1
12.5°	2796.7	2788.1	2811.1	2877.2	2995.0	3112.9	3207.7	3276.7	3158.9	3098.5	2923.2
15°	2638.6	2630.0	2724.9	2842.7	2997.9	3190.5	3388.8	3500.9	3420.4	3325.6	3130.1
17.5°	2443.2	2454.7	2555.3	2750.7	2997.9	3227.9	3480.8	3725.1	3713.6	3592.9	3388.8
20°	2377.1	2385.7	2486.3	2627.1	2908.8	3253.7	3624.5	3969.4	4038.4	3894.7	3627.4
22.5°	2503.5	2494.9	2503.5	2589.8	2848.4	3230.7	3719.4	4248.2	4371.8	4259.7	3940.7
25°	2934.7	2928.9	2857.1	2724.9	2814.0	3179.0	3768.2	4432.2	4716.8	4613.3	4193.6
27.5°	3567.0	3544.0	3431.9	3156.0	2974.9	3210.6	3848.7	4610.4	5018.6	4900.7	4420.7
30°	4245.4	4190.8	4044.2	3699.2	3391.7	3328.5	3894.7	4742.6	5354.9	5205.4	4619.0
32.5°	4713.9	4785.7	4739.8	4389.1	3917.7	3601.5	3969.4	4909.3	5665.3	5567.6	4958.2
35°	5438.2	5521.6	5329.0	5018.6	4544.3	4035.5	4127.5	5044.4	6142.4	5978.6	5274.4
37.5°	6352.2	6415.5	6277.5	5688.3	5188.1	4570.2	4452.3	5326.1	6553.4	6475.8	5679.7
40°	6812.1	7116.8	6921.4	6389.6	5852.1	5317.5	4989.8	5656.7	7269.2	7205.9	6240.1
42.5°	7447.4	7599.7	7499.1	7105.3	6544.8	6116.5	5653.8	6300.5	8137.2	8137.2	6999.0
45°	8119.9	8125.7	8119.9	7798.0	7300.8	7079.4	6550.6	7108.2	9071.3	9174.8	7907.2
47.5°	8671.8	8844.3	8829.9	8637.3	8252.2	8168.8	7447.4	8028.0	10244.1	10425.2	8792.5
50°	8956.4	9149.0	9206.4	9307.0	9289.8	9465.1	8427.5	9094.3	11255.8	11701.3	9930.8
52.5°	8878.8	8893.1	9246.7	9643.3	10275.7	10767.2	9608.8	10304.4	12440.0	12879.8	10810.3
55°	8243.5	8188.9	8916.1	9370.3	10678.1	11563.4	11244.3	11813.4	13362.7	14032.4	11718.6
57.5°	6849.5	6863.9	7536.5	8459.1	10379.2	11879.6	12991.9	13785.2	14656.1	15331.6	12994.8
60°	4728.3	4711.0	5464.1	6530.5	8623.0	11290.3	13997.9	16340.5	16386.5	17343.6	15285.6
62.5°	2658.7	2664.5	3236.5	4147.6	6033.2	9226.6	13949.1	19053.9	18858.4	19697.7	17889.8
65°	1506.1	1543.5	1937.3	2457.5	3613.0	6194.2	11997.4	20134.6	20764.1	21511.4	19470.6
66°	1273.3	1299.2	1635.5	2029.3	2882.9	5024.3	10798.8	19924.8	21361.9	21931.0	19439.0
67.5°	985.9	1020.4	1302.1	1609.6	2115.5	3477.9	8691.9	18881.4	21471.2	21804.6	18890.0
70°	675.5	698.5	914.0	1221.6	1445.8	1779.2	5196.8	15610.4	19482.1	19763.8	16418.1
72.5°	474.3	485.8	641.0	925.5	1112.4	1017.5	2578.3	11106.4	14909.1	15458.1	12770.6
75°	342.0	353.5	439.8	664.0	868.0	666.8	1181.3	7093.8	9143.2	9574.4	7691.7
77.5°	247.2	261.6	298.9	428.3	629.5	468.5	580.6	3705.0	4311.5	4236.7	3308.3
80°	149.5	163.8	221.3	275.9	459.9	330.5	319.0	1546.4	1529.1	1451.5	1040.5
82.5°	69.0	80.5	117.8	186.8	321.9	229.9	152.3	551.9	482.9	442.6	293.2
85°	20.1	25.9	69.0	140.8	163.8	112.1	92.0	189.7	198.3	169.6	97.7
87.5°	0.0	2.9	31.6	34.5	48.9	37.4	34.5	48.9	92.0	74.7	31.6
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°	2319.6	2319.6	2319.6	2319.6	2319.6	2319.6	2319.6	2319.6	2319.6	2319.6	2319.6
2.5°	2342.6	2322.4	2273.6	2198.9	2132.7	2098.3	2049.4	2006.3	1983.3	1980.4	1977.5
5°	2400.1	2345.4	2227.6	2092.5	1991.9	1882.7	1807.9	1753.3	1701.6	1652.7	1681.5
7.5°	2477.7	2391.4	2198.9	2023.5	1805.1	1664.2	1532.0	1454.4	1408.4	1365.3	1359.6
10°	2598.4	2489.2	2178.7	1862.6	1612.5	1405.5	1270.4	1158.4	1095.1	1020.4	1049.1
12.5°	2762.2	2566.8	2104.0	1716.0	1394.0	1175.6	983.0	801.9	701.3	623.7	626.6
15°	2926.1	2670.2	2035.0	1537.8	1195.7	908.3	626.6	503.0	474.3	457.0	462.8
17.5°	3087.0	2753.6	1928.7	1356.7	968.6	577.7	457.0	431.1	416.8	399.5	399.5
20°	3282.5	2808.2	1796.4	1190.0	666.8	428.3	390.9	373.7	350.7	327.7	330.5
22.5°	3472.2	2854.2	1644.1	977.3	448.4	370.8	327.7	304.7	284.6	261.6	261.6
25°	3661.9	2868.6	1445.8	701.3	362.2	296.1	255.8	224.2	204.1	184.0	186.8
27.5°	3791.2	2779.5	1259.0	448.4	290.3	224.2	178.2	152.3	135.1	115.0	115.0
30°	3866.0	2615.6	1057.7	316.2	218.4	152.3	106.3	80.5	63.2	48.9	46.0
32.5°	3940.7	2483.4	830.7	241.4	143.7	80.5	40.2	14.4	0.0	0.0	0.0
35°	4090.2	2333.9	557.6	135.1	48.9	2.9	0.0	0.0	0.0	0.0	0.0
37.5°	4185.0	2127.0	255.8	20.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	4423.6	2023.5	63.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	4811.6	1951.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	5237.0	1922.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	5803.2	2000.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	6401.1	2210.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	7056.5	2408.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	7628.4	2647.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	8680.4	3210.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	10568.9	4317.2	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	12695.9	5139.3	31.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	13474.8	5119.2	54.6	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	13336.8	4837.5	54.6	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	12621.1	4297.1	48.9	5.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	10839.1	3549.8	48.9	8.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	8263.7	2765.1	46.0	11.5	2.9	0.0	0.0	0.0	0.0	0.0	0.0
75°	4986.9	1471.7	37.4	14.4	5.7	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1986.2	517.4	28.7	11.5	5.7	0.0	0.0	0.0	0.0	0.0	0.0
80°	537.5	155.2	17.2	11.5	8.6	2.9	0.0	0.0	0.0	0.0	0.0
82.5°	140.8	57.5	14.4	11.5	5.7	2.9	0.0	0.0	0.0	0.0	0.0
85°	54.6	23.0	11.5	8.6	8.6	5.7	2.9	0.0	0.0	0.0	0.0
87.5°	17.2	8.6	8.6	5.7	5.7	2.9	2.9	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)