

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: P482710

Luminaire Tested: **IFLD-L-SA8A-722-U-T3R-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482710
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-722-U-T3R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens with House Side Shield
Light Source: (128) 2200K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

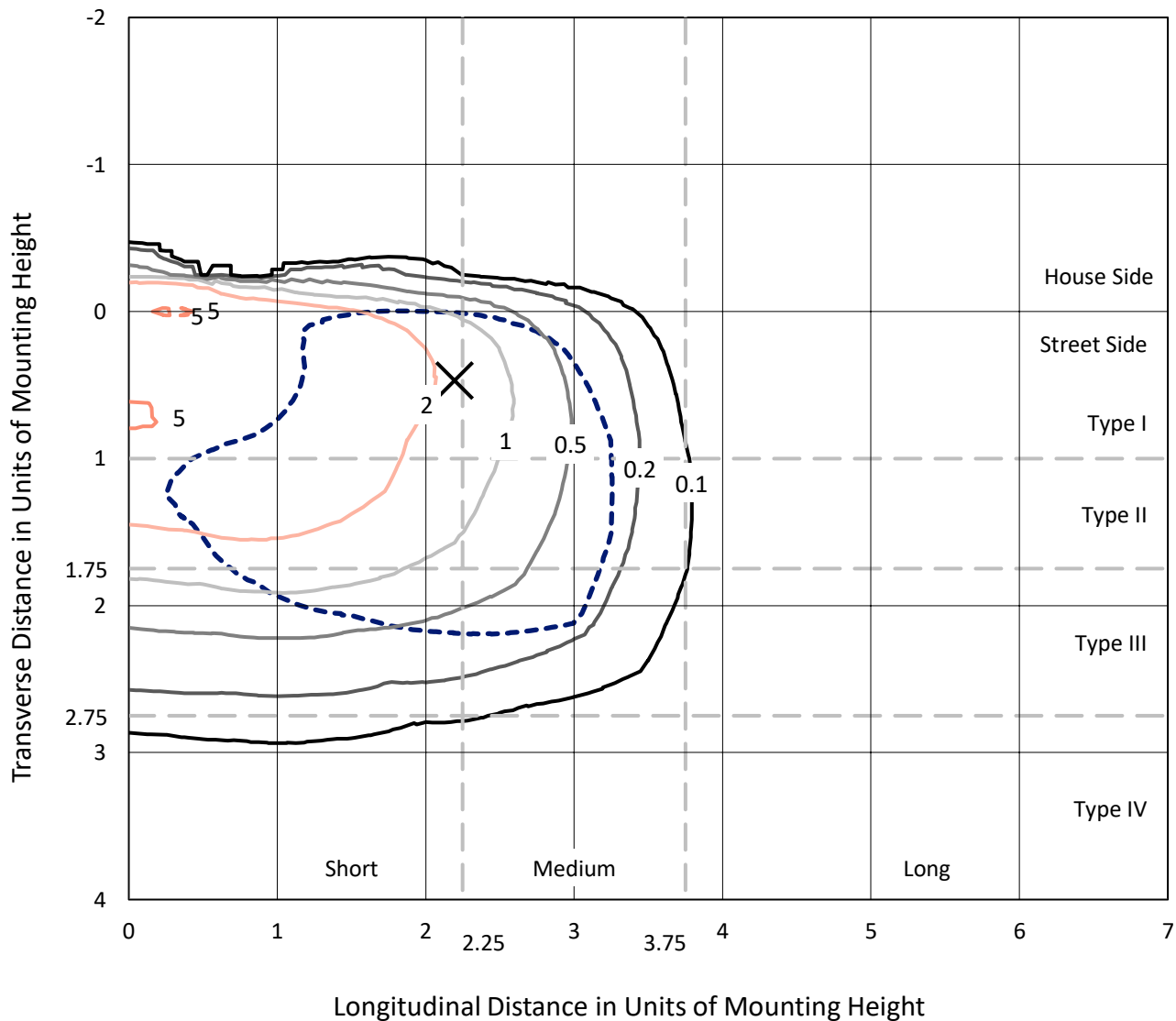
Lumens per Lamp: N/A
Luminaire Lumens: 18087.6 lumens
Efficiency: N/A
Efficacy: 73.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 247.8
Input Voltage (V): 120
Input Current (A_{in}): 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

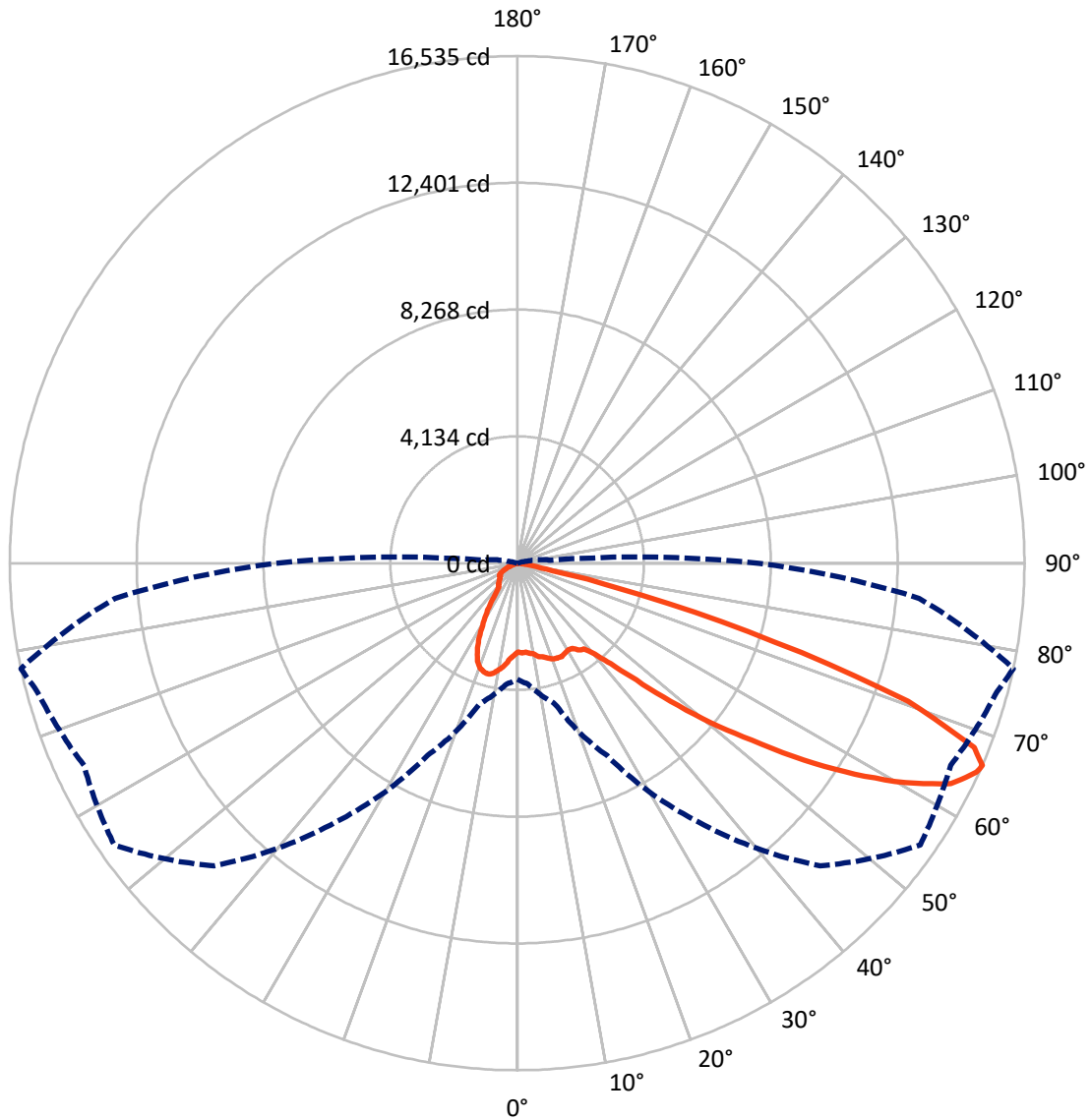
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 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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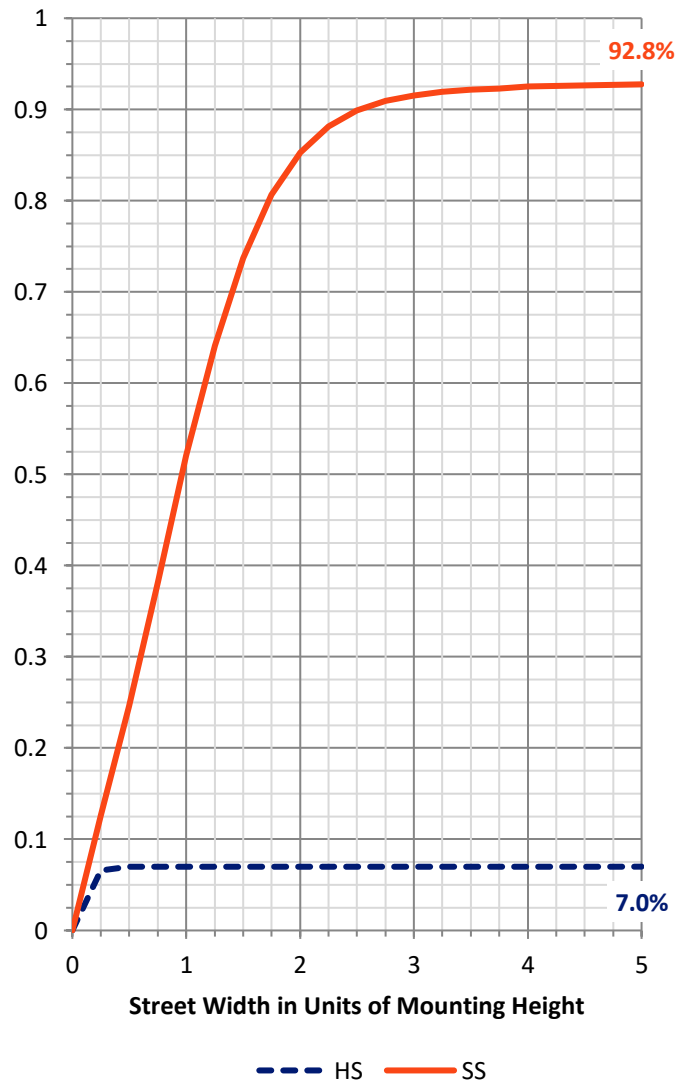
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1271.6	0.0	1271.6
	% Fixture	7.0	0.0	7.0
Street Side	Lumens	16816.0	0.0	16816.0
	% Fixture	93.0	0.0	93.0
Total	Lumens	18087.6	0.0	18087.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	265.0	1.5
10°-20°	598.3	3.3
20°-30°	855.1	4.7
30°-40°	1463.8	8.1
40°-50°	2641.9	14.6
50°-60°	4518.1	25.0
60°-70°	5560.9	30.7
70°-80°	2102.3	11.6
80°-90°	82.1	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°	18087.6	100.0
0°-180°	18087.6	100.0

Coefficient of Utilization



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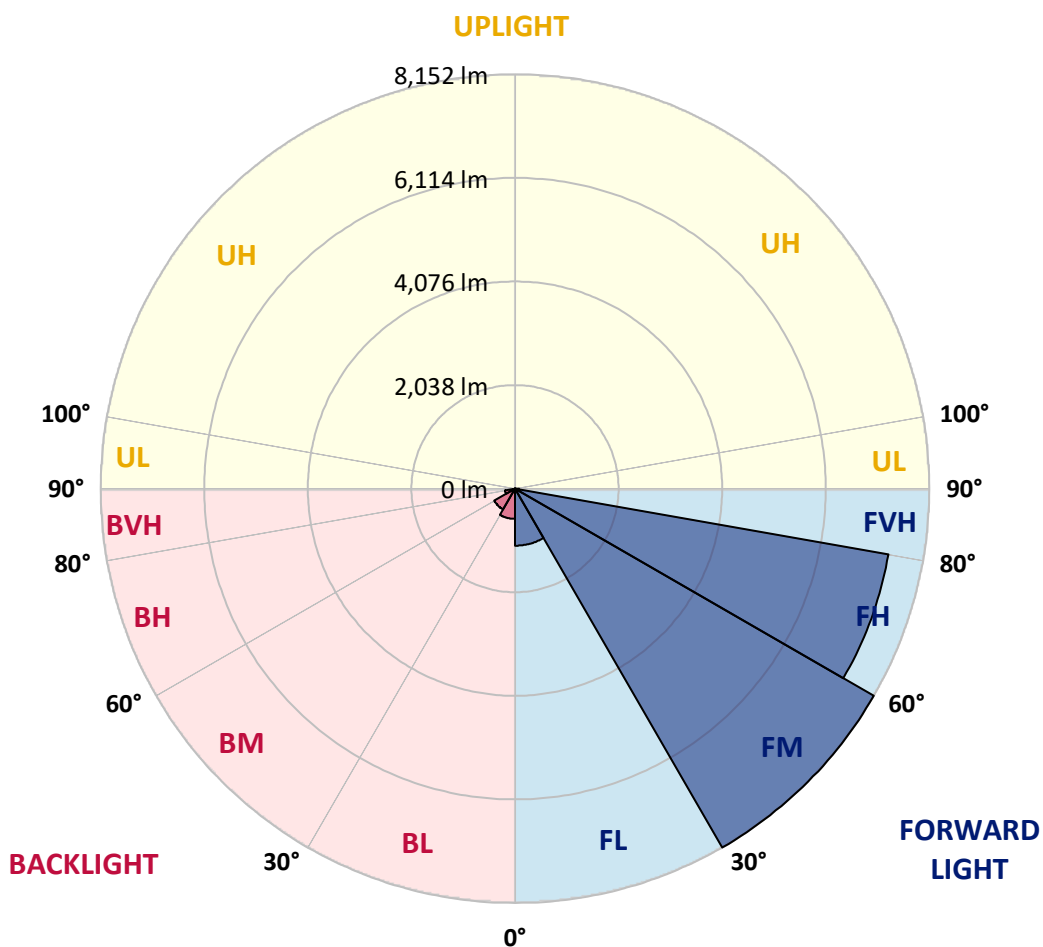
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1122.9	6.2			
FM (30°-60°)	8152.5	45.1			
FH (60°-80°)	7461.8	41.3			G3/7500
FVH (80°-90°)	78.8	0.4			G1/100
BL (0°-30°)	595.6	3.3	B2/1000		
BM (30°-60°)	471.3	2.6	B1/1000		
BH (60°-80°)	201.5	1.1	B1/500		G1/500
BVH (80°-90°)	3.3	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	2897.0	2897.0	2897.0	2897.0	2897.0	2897.0	2897.0	2897.0	2897.0	2897.0	2897.0
2.5°	2664.7	2640.1	2664.7	2700.3	2719.4	2735.8	2793.2	2842.4	2894.3	2929.8	2918.9
5°	2470.7	2517.2	2522.6	2533.5	2563.6	2662.0	2694.8	2779.5	2908.0	2918.9	2968.1
7.5°	2317.6	2304.0	2339.5	2410.6	2487.1	2544.5	2640.1	2787.7	2921.6	2968.1	3063.8
10°	2096.3	2123.6	2161.9	2232.9	2325.8	2468.0	2637.4	2801.4	2992.7	3009.1	3186.8
12.5°	1976.0	1948.7	2008.8	2082.6	2241.1	2372.3	2580.0	2776.8	3036.4	3126.6	3331.6
15°	1877.6	1891.3	1948.7	1997.9	2129.1	2295.8	2539.0	2836.9	3110.2	3173.1	3484.7
17.5°	1836.6	1828.4	1872.1	1921.3	2082.6	2271.2	2522.6	2839.7	3175.8	3257.8	3588.5
20°	1855.8	1872.1	1858.5	1904.9	2006.1	2197.4	2547.2	2891.6	3225.0	3337.1	3700.6
22.5°	2156.4	2134.5	2025.2	1937.7	1943.2	2167.3	2528.1	2924.4	3268.7	3358.9	3777.1
25°	2940.8	2823.3	2552.7	2216.5	1995.1	2085.3	2506.2	2913.4	3260.5	3372.6	3823.6
27.5°	3730.6	3629.5	3364.4	2842.4	2205.6	2052.5	2429.7	2921.6	3219.5	3323.4	3747.0
30°	4564.2	4618.9	4225.3	3604.9	2757.7	2232.9	2380.5	2877.9	3192.2	3279.7	3763.4
32.5°	5419.7	5397.8	5160.0	4487.7	3547.5	2631.9	2459.8	2921.6	3227.7	3312.5	3859.1
35°	6089.3	6012.7	5772.2	5165.5	4200.7	3233.2	2733.1	3129.4	3383.5	3484.7	3995.7
37.5°	6420.0	6452.8	6313.4	5785.9	4916.8	3790.8	3074.7	3129.4	3432.7	3550.2	4217.1
40°	6676.9	6775.3	6723.3	6553.9	5627.4	4419.4	3451.9	3323.4	3681.4	3902.8	4632.5
42.5°	6985.7	6939.2	7245.4	7089.6	6556.6	5212.0	4113.3	3785.3	4269.0	4482.2	5255.7
45°	7149.7	7327.3	7559.7	7759.2	7417.5	6201.3	4976.9	4602.5	5168.2	5438.8	6182.2
47.5°	7570.6	7641.6	8018.8	8270.2	8117.2	7332.8	6288.8	5796.8	6299.7	6726.1	7242.6
50°	7816.6	7720.9	8248.4	8631.0	8718.5	8270.2	7464.0	7081.4	7644.4	8188.3	8234.7
52.5°	7600.6	7874.0	8401.4	9087.4	9330.7	9106.6	8844.2	8677.5	9073.8	9576.7	9352.5
55°	6843.6	7029.4	8314.0	9587.6	10372.0	10268.1	10511.4	10402.0	10801.1	11334.0	10658.9
57.5°	6234.1	6466.4	7595.2	9847.2	11342.2	11648.3	11954.4	11886.1	12367.1	12982.1	11765.8
60°	5854.2	5988.1	7075.9	9781.6	11916.2	13075.0	13766.4	13285.4	14069.8	14539.9	12632.2
62.5°	5195.6	5280.3	6318.8	8912.5	12088.3	14083.5	15256.0	14602.8	15283.3	15857.2	13255.4
65°	4165.2	4394.8	5252.9	7611.6	10951.4	14269.3	16185.2	15417.2	16075.9	16453.0	13443.9
66°	3790.8	3957.5	4744.6	6922.8	10303.6	13960.5	16029.4	15586.7	16190.7	16535.0	13154.2
67.5°	3145.8	3290.6	3916.5	5941.7	8978.1	13280.0	16138.7	15471.9	16278.1	16067.7	12766.1
70°	2082.6	2175.5	2678.4	4017.6	6253.2	10863.9	14969.0	14575.4	14310.3	13520.5	9981.1
72.5°	973.0	1106.9	1672.6	2435.2	3667.8	7600.6	12205.9	11678.4	10035.8	8773.1	6297.0
75°	440.0	500.2	918.3	1396.6	1645.3	3938.3	7874.0	7111.4	4996.0	4148.8	2757.7
77.5°	237.8	270.6	448.2	664.1	598.5	1380.2	3897.3	3241.4	1574.2	1153.4	800.8
80°	183.1	215.9	374.4	379.9	221.4	358.0	1448.5	1003.0	393.6	297.9	191.3
82.5°	95.7	136.7	295.2	246.0	112.1	144.9	448.2	278.8	123.0	98.4	82.0
85°	38.3	60.1	166.7	164.0	65.6	49.2	125.7	84.7	49.2	41.0	38.3
87.5°	2.7	2.7	90.2	62.9	41.0	13.7	19.1	19.1	24.6	21.9	27.3
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°	2897.0	2897.0	2897.0	2897.0	2897.0	2897.0	2897.0	2897.0	2897.0	2897.0	2897.0
2.5°	2968.1	3000.9	3006.4	3096.6	3115.7	3096.6	3145.8	3137.6	3159.4	3143.0	3113.0
5°	3036.4	3082.9	3173.1	3241.4	3241.4	3186.8	3143.0	3085.6	3000.9	2979.0	2962.6
7.5°	3154.0	3301.5	3383.5	3339.8	3252.3	3047.4	2763.1	2555.4	2380.5	2314.9	2284.8
10°	3361.7	3443.7	3539.3	3361.7	2998.2	2563.6	2085.3	1771.0	1525.0	1470.4	1429.4
12.5°	3495.6	3626.8	3681.4	3241.4	2528.1	1880.3	1361.1	1005.8	833.6	702.4	680.5
15°	3670.5	3820.8	3708.8	2916.2	1992.4	1232.6	705.1	440.0	358.0	336.2	336.2
17.5°	3790.8	3954.7	3596.7	2511.7	1413.0	655.9	349.8	303.4	297.9	300.6	295.2
20°	4001.2	4099.6	3427.3	2041.6	844.5	336.2	281.5	270.6	265.1	273.3	267.8
22.5°	4080.5	4170.7	3151.2	1478.6	379.9	224.1	210.4	202.2	207.7	205.0	202.2
25°	4075.0	4121.5	2697.5	847.2	112.1	87.5	79.3	79.3	73.8	76.5	73.8
27.5°	4116.0	4001.2	2189.2	251.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	4137.9	3807.2	1557.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	4148.8	3706.0	1003.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	4233.5	3503.8	429.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	4290.9	3244.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	4528.7	3162.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	4837.5	3009.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	5266.6	2782.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	5835.1	2648.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	6258.7	2437.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	6797.1	2312.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	7436.7	2317.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	8018.8	2279.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	8316.7	1948.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	8253.9	1577.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	8035.2	1238.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	7884.9	1096.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	7428.5	877.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	5911.6	601.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	3760.7	369.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	1732.8	169.4	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	543.9	103.9	21.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	142.1	65.6	21.9	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	73.8	46.5	19.1	8.2	5.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	46.5	19.1	8.2	5.5	5.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	41.0	10.9	5.5	5.5	2.7	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)