

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: P482981

Luminaire Tested: **IFLD-L-SA7D-827-U-T3R-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482981
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-827-U-T3R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R
distribution lens with House Side Shield
Light Source: (112) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

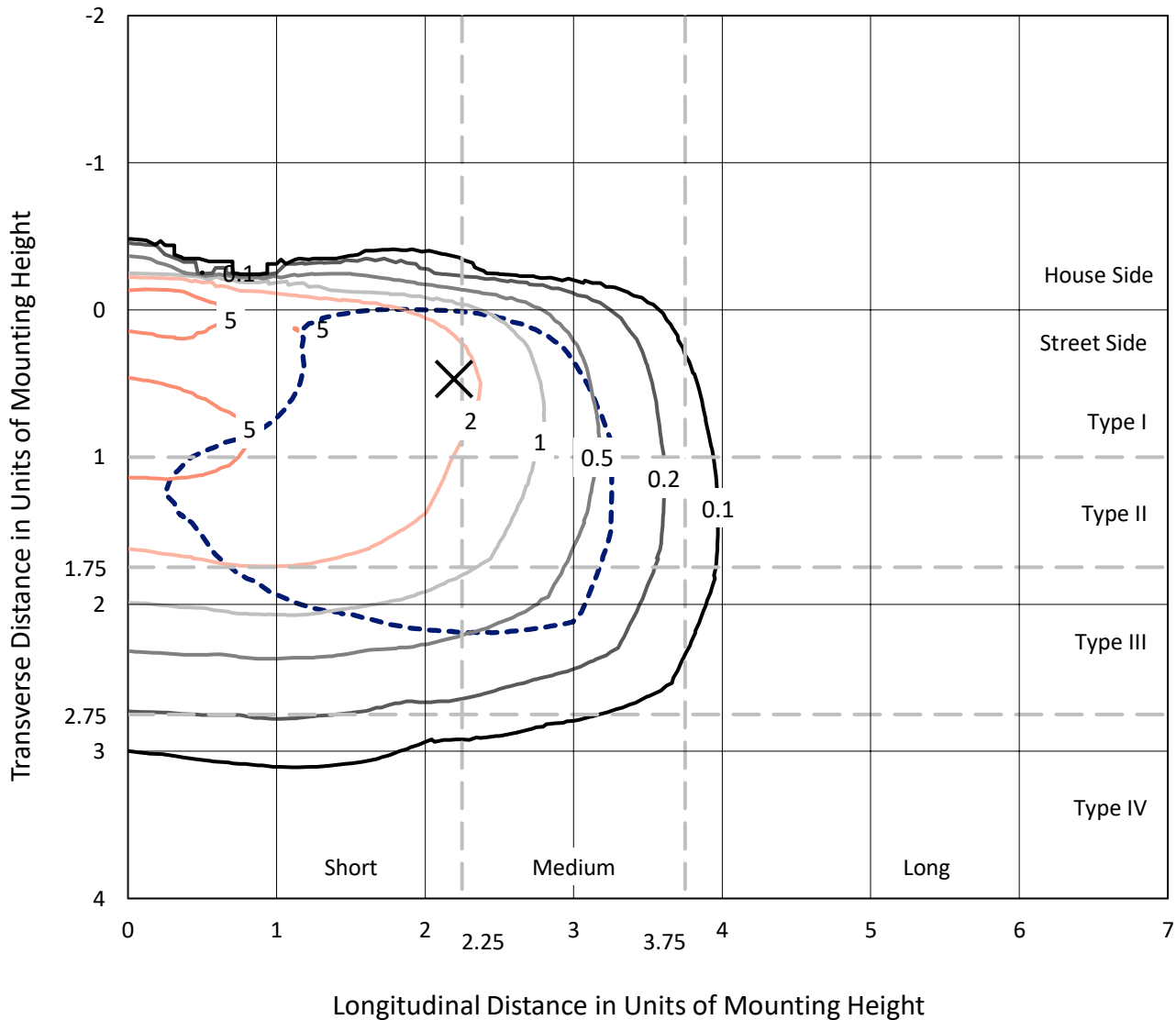
Lumens per Lamp: N/A
Luminaire Lumens: 25703.4 lumens
Efficiency: N/A
Efficacy: 60.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 422.6
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

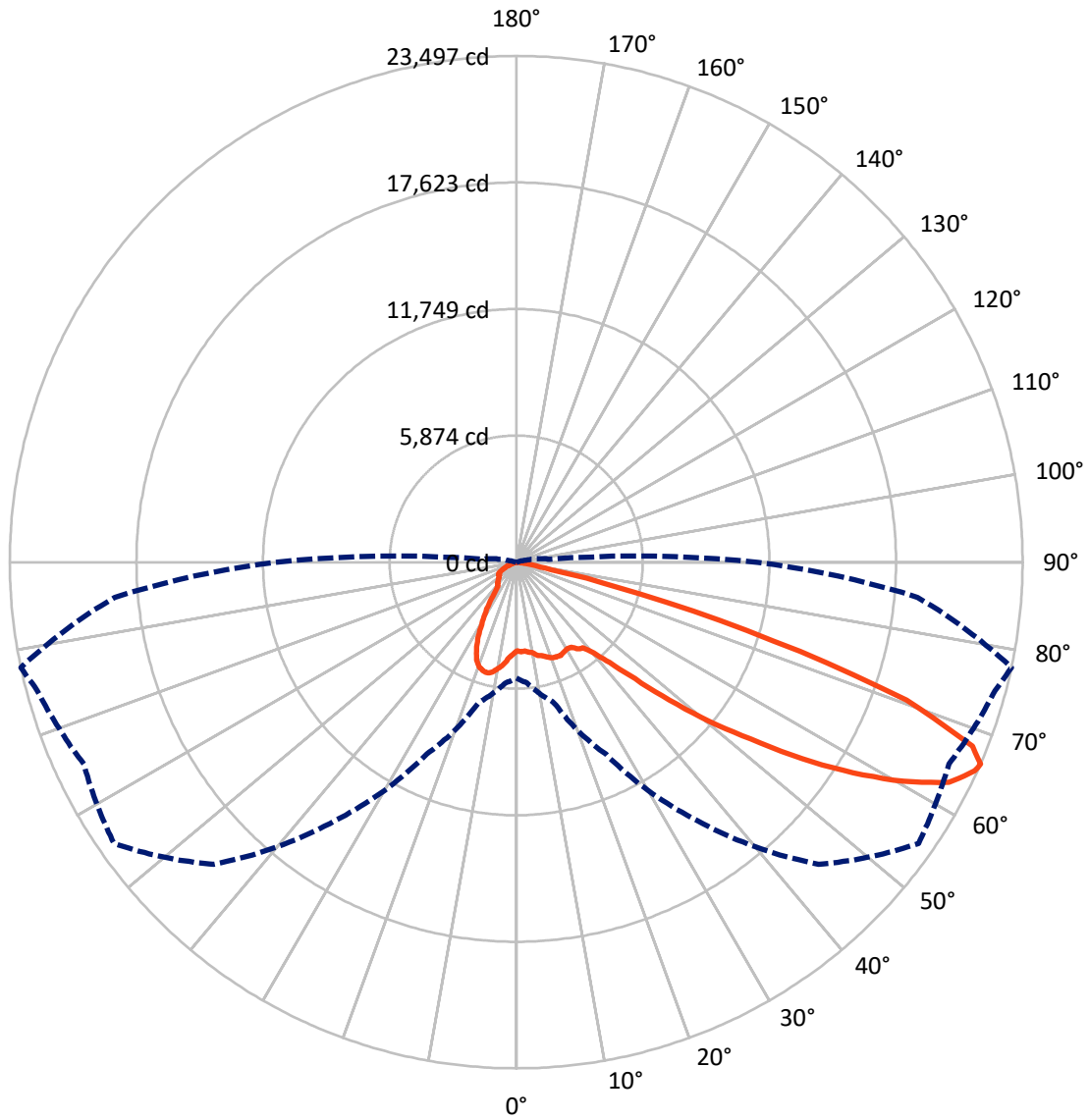
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 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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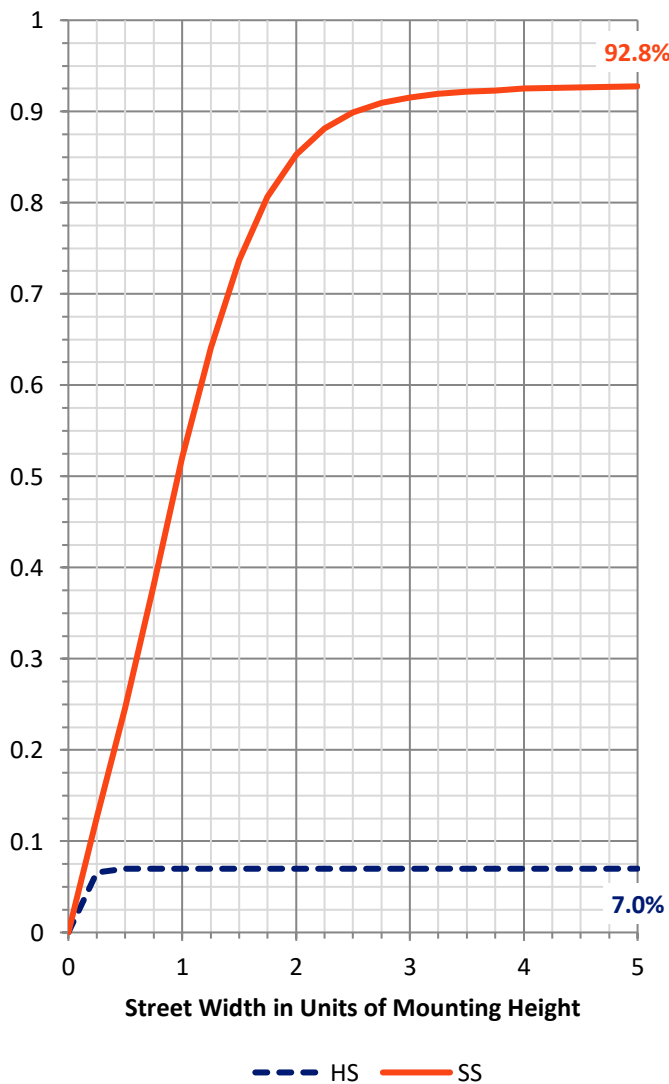
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1807.1	0.0	1807.1
	% Fixture	7.0	0.0	7.0
Street Side	Lumens	23896.3	0.0	23896.3
	% Fixture	93.0	0.0	93.0
Total	Lumens	25703.4	0.0	25703.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	376.6	1.5
10°-20°	850.2	3.3
20°-30°	1215.2	4.7
30°-40°	2080.1	8.1
40°-50°	3754.3	14.6
50°-60°	6420.4	25.0
60°-70°	7902.3	30.7
70°-80°	2987.5	11.6
80°-90°	116.7	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°	25703.4	100.0
0°-180°	25703.4	100.0

Coefficient of Utilization

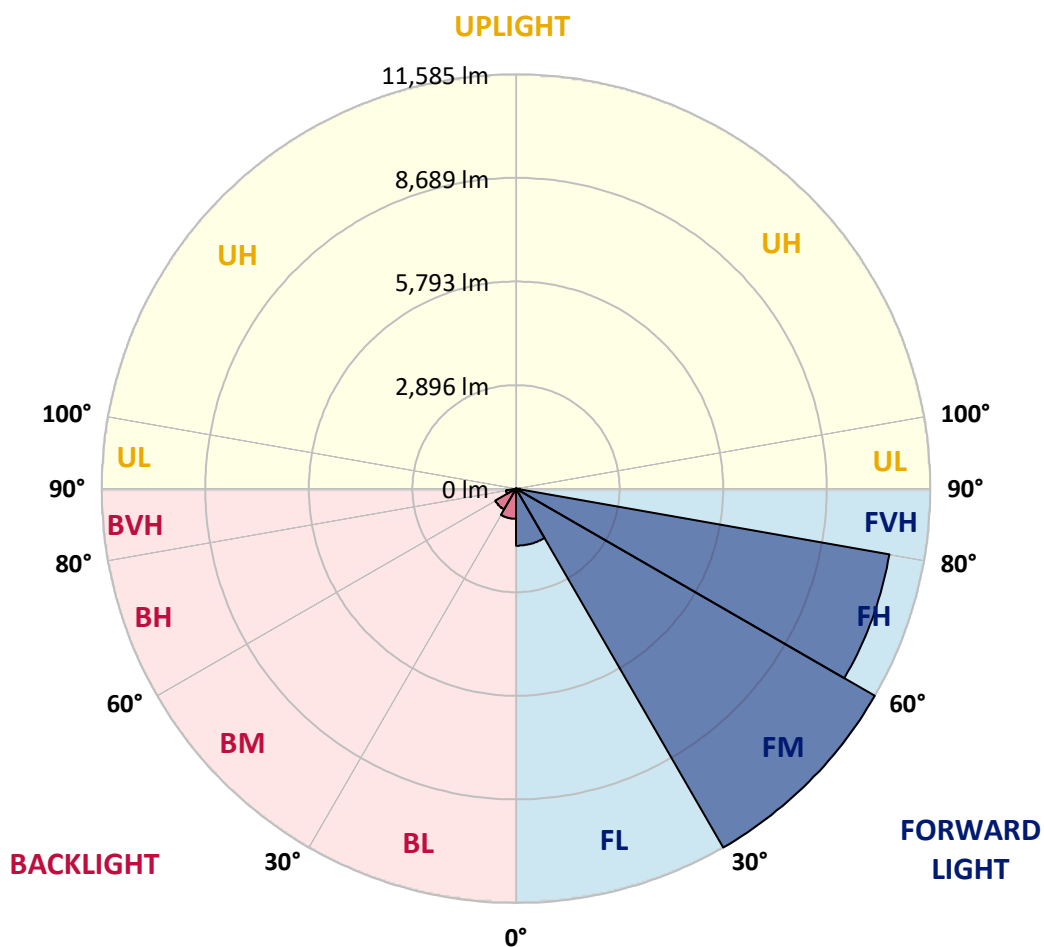


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1595.7	6.2			
FM (30°-60°)	11585.0	45.1			
FH (60°-80°)	10603.6	41.3			G4/12000
FVH (80°-90°)	112.0	0.4			G2/225
BL (0°-30°)	846.3	3.3	B2/1000		
BM (30°-60°)	669.8	2.6	B1/1000		
BH (60°-80°)	286.3	1.1	B1/500		G1/500
BVH (80°-90°)	4.7	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°	4116.8	4116.8	4116.8	4116.8	4116.8	4116.8	4116.8	4116.8	4116.8	4116.8	4116.8
2.5°	3786.7	3751.8	3786.7	3837.2	3864.4	3887.7	3969.3	4039.2	4113.0	4163.4	4147.9
5°	3511.0	3577.0	3584.8	3600.3	3643.0	3782.8	3829.4	3949.8	4132.4	4147.9	4217.8
7.5°	3293.5	3274.1	3324.5	3425.5	3534.3	3615.8	3751.8	3961.5	4151.8	4217.8	4353.8
10°	2978.9	3017.7	3072.1	3173.1	3305.1	3507.1	3747.9	3980.9	4252.8	4276.1	4528.5
12.5°	2808.0	2769.2	2854.6	2959.5	3184.7	3371.1	3666.3	3946.0	4314.9	4443.1	4734.4
15°	2668.2	2687.6	2769.2	2839.1	3025.5	3262.4	3608.1	4031.4	4419.8	4509.1	4951.9
17.5°	2609.9	2598.3	2660.4	2730.3	2959.5	3227.4	3584.8	4035.3	4513.0	4629.5	5099.4
20°	2637.1	2660.4	2641.0	2707.0	2850.7	3122.6	3619.7	4109.1	4582.9	4742.1	5258.7
22.5°	3064.3	3033.3	2877.9	2753.6	2761.4	3079.9	3592.5	4155.7	4645.0	4773.2	5367.4
25°	4179.0	4012.0	3627.5	3149.8	2835.2	2963.3	3561.5	4140.1	4633.4	4792.6	5433.5
27.5°	5301.4	5157.7	4781.0	4039.2	3134.2	2916.7	3452.7	4151.8	4575.1	4722.7	5324.7
30°	6486.0	6563.6	6004.4	5122.7	3918.8	3173.1	3382.8	4089.7	4536.3	4660.6	5348.0
32.5°	7701.6	7670.5	7332.6	6377.2	5041.2	3740.1	3495.4	4151.8	4586.8	4707.2	5483.9
35°	8653.1	8544.4	8202.6	7340.4	5969.4	4594.6	3883.8	4447.0	4808.2	4951.9	5678.1
37.5°	9123.1	9169.7	8971.6	8222.0	6987.0	5386.8	4369.3	4447.0	4878.1	5045.1	5992.7
40°	9488.2	9628.0	9554.2	9313.4	7996.8	6280.1	4905.3	4722.7	5231.5	5546.1	6583.1
42.5°	9927.0	9861.0	10296.0	10074.6	9317.3	7406.4	5845.1	5379.1	6066.5	6369.5	7468.6
45°	10160.1	10412.5	10742.6	11026.1	10540.7	8812.4	7072.4	6540.3	7344.3	7728.8	8785.2
47.5°	10758.2	10859.1	11395.1	11752.4	11534.9	10420.3	8936.7	8237.6	8952.2	9558.1	10292.1
50°	11107.7	10971.8	11721.3	12265.1	12389.4	11752.4	10606.7	10063.0	10863.0	11635.9	11701.9
52.5°	10800.9	11189.3	11938.8	12913.7	13259.3	12940.9	12568.0	12331.1	12894.3	13608.9	13290.4
55°	9725.1	9989.2	11814.6	13624.4	14739.1	14591.5	14937.1	14781.8	15348.8	16106.2	15146.9
57.5°	8859.0	9189.1	10793.1	13993.4	16117.8	16552.8	16987.8	16890.7	17574.3	18448.1	16719.8
60°	8319.1	8509.4	10055.2	13900.2	16933.4	18580.2	19562.8	18879.2	19993.9	20661.9	17951.0
62.5°	7383.1	7503.5	8979.4	12665.1	17178.1	20013.3	21679.4	20751.2	21718.3	22533.9	18836.5
65°	5918.9	6245.2	7464.7	10816.4	15562.4	20277.4	22999.9	21908.6	22844.6	23380.6	19104.5
66°	5386.8	5623.8	6742.3	9837.7	14642.0	19838.5	22778.6	22149.4	23007.7	23497.1	18692.8
67.5°	4470.3	4676.1	5565.5	8443.4	12758.3	18871.4	22933.9	21986.3	23132.0	22832.9	18141.3
70°	2959.5	3091.5	3806.1	5709.2	8886.2	15438.2	21271.6	20712.4	20335.6	19213.2	14183.7
72.5°	1382.6	1572.9	2376.9	3460.5	5212.1	10800.9	17345.1	16595.5	14261.4	12467.0	8948.3
75°	625.3	710.7	1305.0	1984.6	2338.1	5596.6	11189.3	10105.7	7099.6	5895.6	3918.8
77.5°	337.9	384.5	636.9	943.8	850.6	1961.3	5538.3	4606.2	2237.1	1639.0	1138.0
80°	260.2	306.8	532.1	539.8	314.6	508.8	2058.4	1425.4	559.3	423.3	271.9
82.5°	135.9	194.2	419.5	349.5	159.2	205.8	636.9	396.1	174.8	139.8	116.5
85°	54.4	85.4	236.9	233.0	93.2	69.9	178.7	120.4	69.9	58.3	54.4
87.5°	3.9	3.9	128.2	89.3	58.3	19.4	27.2	27.2	35.0	31.1	38.8
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°	4116.8	4116.8	4116.8	4116.8	4116.8	4116.8	4116.8	4116.8	4116.8	4116.8	4116.8
2.5°	4217.8	4264.4	4272.2	4400.4	4427.5	4400.4	4470.3	4458.6	4489.7	4466.4	4423.7
5°	4314.9	4380.9	4509.1	4606.2	4606.2	4528.5	4466.4	4384.8	4264.4	4233.4	4210.1
7.5°	4481.9	4691.6	4808.2	4746.0	4621.7	4330.5	3926.5	3631.4	3382.8	3289.6	3246.9
10°	4777.1	4893.6	5029.5	4777.1	4260.5	3643.0	2963.3	2516.7	2167.2	2089.5	2031.2
12.5°	4967.4	5153.8	5231.5	4606.2	3592.5	2672.1	1934.1	1429.2	1184.6	998.1	967.1
15°	5216.0	5429.6	5270.3	4144.0	2831.3	1751.6	1002.0	625.3	508.8	477.7	477.7
17.5°	5386.8	5619.9	5111.1	3569.2	2007.9	932.1	497.1	431.1	423.3	427.2	419.5
20°	5685.9	5825.7	4870.3	2901.2	1200.1	477.7	400.0	384.5	376.7	388.4	380.6
22.5°	5798.5	5926.7	4478.0	2101.1	539.8	318.5	299.1	287.4	295.2	291.3	287.4
25°	5790.8	5856.8	3833.3	1204.0	159.2	124.3	112.6	112.6	104.9	108.7	104.9
27.5°	5849.0	5685.9	3110.9	357.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	5880.1	5410.2	2213.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	5895.6	5266.4	1425.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	6016.0	4979.0	609.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	6097.6	4610.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	6435.5	4493.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	6874.3	4276.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	7484.1	3953.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	8291.9	3763.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	8893.9	3464.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	9659.0	3285.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	10567.9	3293.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	11395.1	3239.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	11818.4	2769.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	11729.1	2241.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	11418.4	1759.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	11204.8	1557.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	10556.2	1246.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	8400.7	854.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	5344.1	524.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	2462.3	240.8	7.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	772.9	147.6	31.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	202.0	93.2	31.1	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	104.9	66.0	27.2	11.7	7.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	66.0	27.2	11.7	7.8	7.8	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	58.3	15.5	7.8	7.8	3.9	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)