

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: P482713

Luminaire Tested: **IFLD-L-SA8D-722-U-T3R-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482713
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8D-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

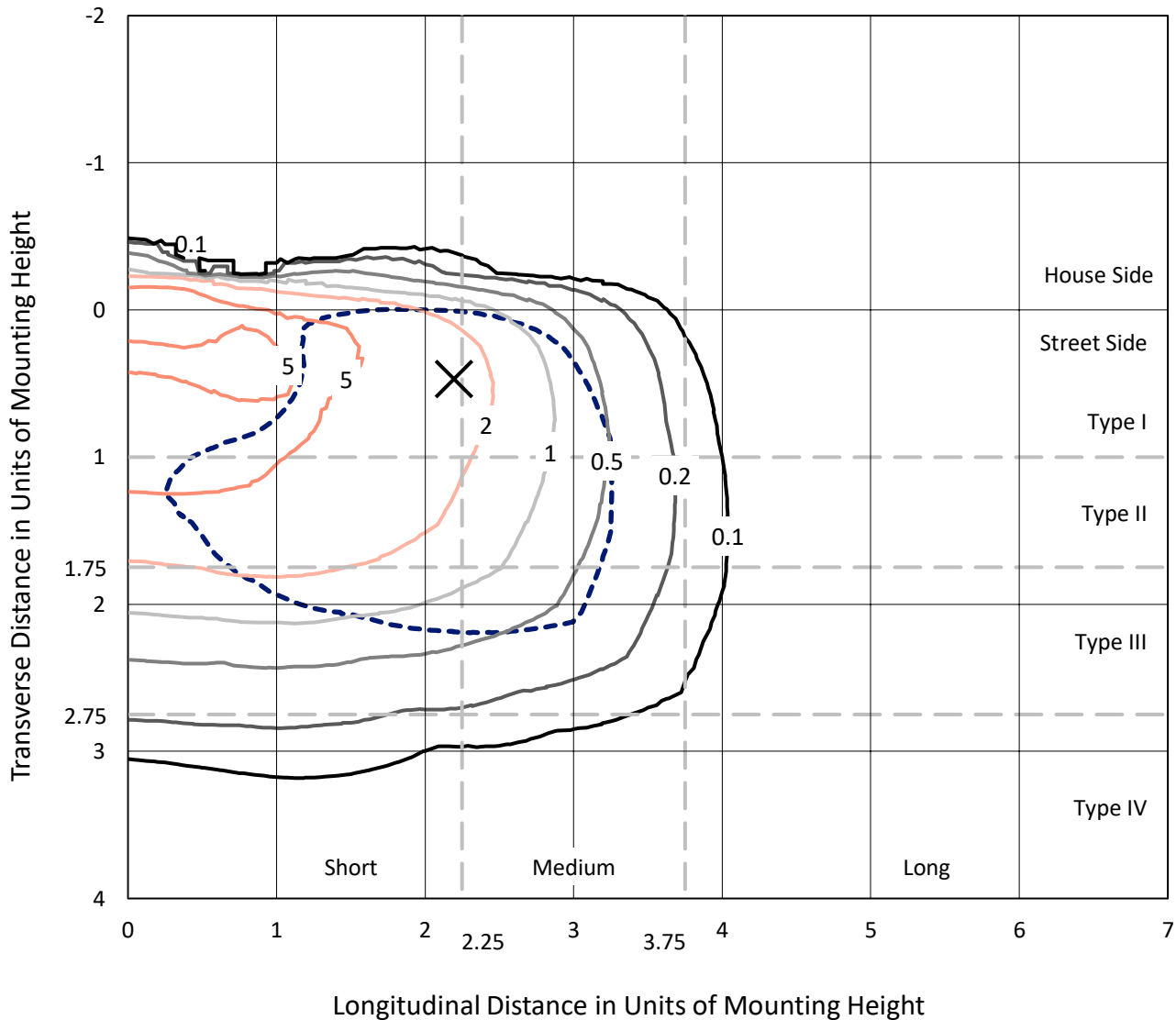
Lumens per Lamp: N/A
Luminaire Lumens: 29435.3 lumens
Efficiency: N/A
Efficacy: 60.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G5

Input Watts (W): 488.3
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

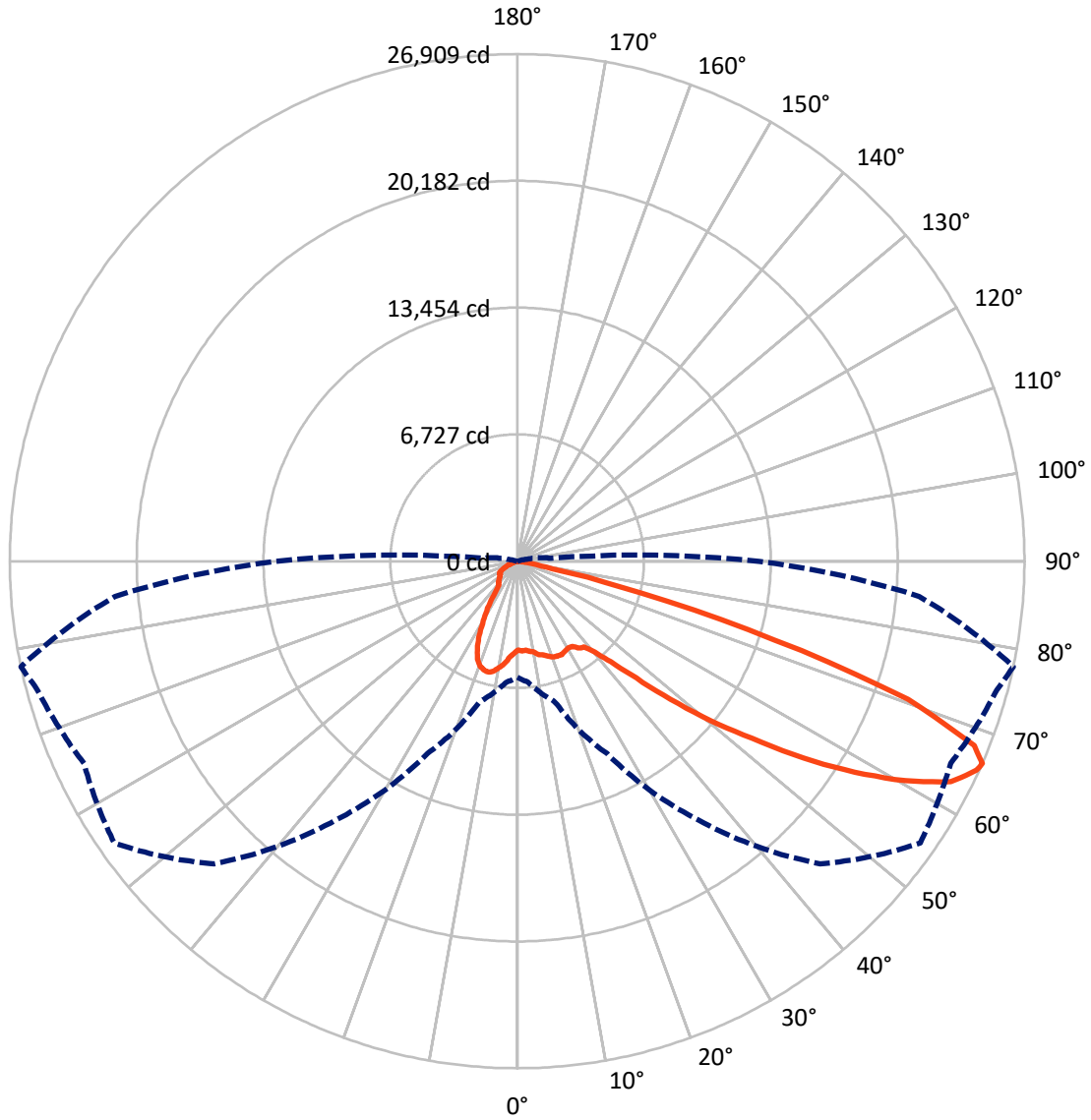
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 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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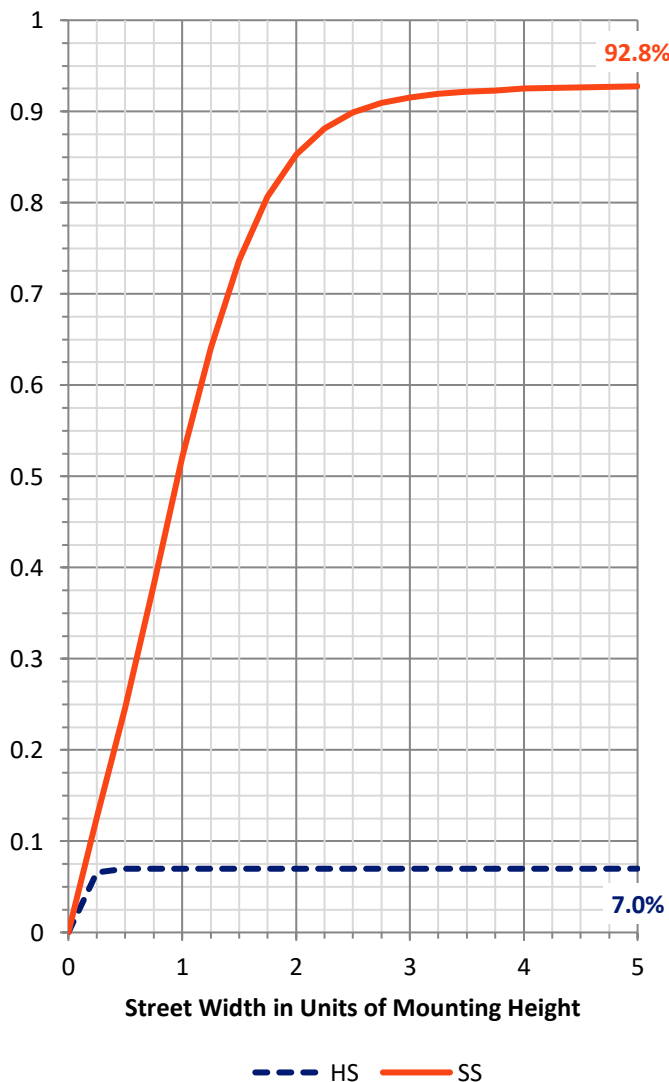
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2069.4	0.0	2069.4
	% Fixture	7.0	0.0	7.0
Street Side	Lumens	27365.8	0.0	27365.8
	% Fixture	93.0	0.0	93.0
Total	Lumens	29435.3	0.0	29435.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	431.3	1.5
10°-20°	973.6	3.3
20°-30°	1391.6	4.7
30°-40°	2382.1	8.1
40°-50°	4299.4	14.6
50°-60°	7352.6	25.0
60°-70°	9049.7	30.7
70°-80°	3421.3	11.6
80°-90°	133.6	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°	29435.3	100.0
0°-180°	29435.3	100.0

Coefficient of Utilization

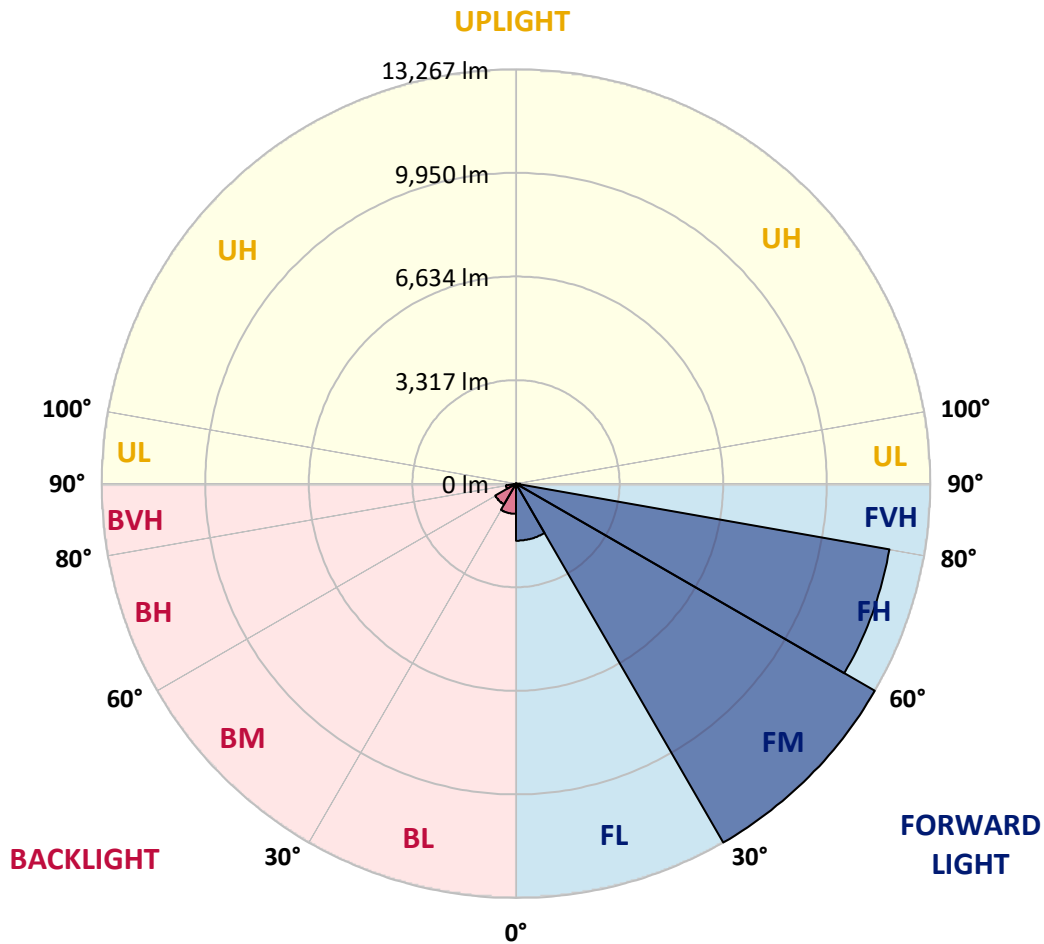


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1827.4	6.2			
FM (30°-60°)	13267.1	45.1			
FH (60°-80°)	12143.1	41.3			G5
FVH (80°-90°)	128.3	0.4			G2/225
BL (0°-30°)	969.2	3.3	B2/1000		
BM (30°-60°)	767.0	2.6	B1/1000		
BH (60°-80°)	327.9	1.1	B1/500		G1/500
BVH (80°-90°)	5.4	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-G5
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	4714.6	4714.6	4714.6	4714.6	4714.6	4714.6	4714.6	4714.6	4714.6	4714.6	4714.6
2.5°	4336.5	4296.5	4336.5	4394.3	4425.5	4452.2	4545.6	4625.6	4710.1	4767.9	4750.2
5°	4020.7	4096.3	4105.2	4123.0	4172.0	4332.1	4385.4	4523.3	4732.4	4750.2	4830.2
7.5°	3771.7	3749.4	3807.2	3922.9	4047.4	4140.8	4296.5	4536.7	4754.6	4830.2	4985.9
10°	3411.4	3455.9	3518.1	3633.8	3785.0	4016.3	4292.0	4558.9	4870.2	4896.9	5186.0
12.5°	3215.7	3171.2	3269.1	3389.2	3647.1	3860.6	4198.6	4518.9	4941.4	5088.2	5421.8
15°	3055.6	3077.8	3171.2	3251.3	3464.8	3736.1	4131.9	4616.7	5061.5	5163.8	5670.8
17.5°	2988.9	2975.5	3046.7	3126.7	3389.2	3696.0	4105.2	4621.2	5168.2	5301.7	5839.8
20°	3020.0	3046.7	3024.4	3100.1	3264.6	3576.0	4145.3	4705.7	5248.3	5430.7	6022.2
22.5°	3509.2	3473.7	3295.8	3153.4	3162.3	3527.0	4114.1	4759.1	5319.5	5466.2	6146.7
25°	4785.7	4594.5	4154.2	3607.1	3246.8	3393.6	4078.6	4741.3	5306.1	5488.5	6222.3
27.5°	6071.1	5906.6	5475.1	4625.6	3589.3	3340.2	3954.0	4754.6	5239.4	5408.4	6097.8
30°	7427.7	7516.6	6876.2	5866.5	4487.7	3633.8	3874.0	4683.4	5194.9	5337.3	6124.5
32.5°	8819.8	8784.2	8397.3	7303.1	5773.1	4283.1	4002.9	4754.6	5252.7	5390.6	6280.2
35°	9909.5	9785.0	9393.6	8406.2	6836.1	5261.6	4447.7	5092.6	5506.3	5670.8	6502.6
37.5°	10447.7	10501.0	10274.2	9415.8	8001.4	6169.0	5003.7	5092.6	5586.3	5777.6	6862.8
40°	10865.8	11025.9	10941.4	10665.6	9157.8	7191.9	5617.5	5408.4	5991.1	6351.3	7538.9
42.5°	11368.4	11292.7	11790.9	11537.4	10670.1	8481.8	6693.8	6160.1	6947.3	7294.2	8552.9
45°	11635.2	11924.3	12302.4	12627.1	12071.1	10091.9	8099.3	7489.9	8410.6	8850.9	10060.7
47.5°	12320.2	12435.8	13049.6	13458.8	13209.7	11933.2	10234.2	9433.6	10252.0	10945.8	11786.4
50°	12720.5	12564.8	13423.2	14045.9	14188.2	13458.8	12146.7	11524.0	12440.2	13325.3	13401.0
52.5°	12369.1	12813.9	13672.3	14788.6	15184.5	14819.8	14392.8	14121.5	14766.4	15584.8	15220.1
55°	11137.1	11439.5	13529.9	15602.6	16879.1	16710.1	17105.9	16928.0	17577.4	18444.7	17346.1
57.5°	10145.2	10523.3	12360.2	16025.1	18458.0	18956.1	19454.3	19343.1	20125.9	21126.6	19147.4
60°	9527.0	9744.9	11515.1	15918.4	19392.0	21277.9	22403.1	21620.3	22896.8	23661.8	20557.3
62.5°	8455.1	8593.0	10283.1	14504.0	19672.2	22919.1	24827.1	23764.1	24871.6	25805.6	21571.4
65°	6778.3	7151.9	8548.5	12386.9	17822.0	23221.5	26339.3	25089.5	26161.4	26775.2	21878.3
66°	6169.0	6440.3	7721.2	11266.1	16767.9	22718.9	26085.8	25365.3	26348.2	26908.7	21406.8
67.5°	5119.3	5355.0	6373.6	9669.3	14610.7	21611.4	26263.7	25178.5	26490.6	26148.1	20775.3
70°	3389.2	3540.4	4358.8	6538.1	10176.4	17679.7	24360.1	23719.6	23288.2	22002.8	16243.0
72.5°	1583.4	1801.3	2722.0	3962.9	5968.8	12369.1	19863.5	19005.1	16332.0	14277.2	10247.5
75°	716.1	813.9	1494.4	2272.8	2677.5	6409.2	12813.9	11572.9	8130.4	6751.6	4487.7
77.5°	387.0	440.3	729.4	1080.8	974.0	2246.1	6342.4	5275.0	2561.9	1876.9	1303.2
80°	298.0	351.4	609.3	618.2	360.3	582.7	2357.3	1632.3	640.5	484.8	311.3
82.5°	155.7	222.4	480.4	400.3	182.4	235.7	729.4	453.7	200.1	160.1	133.4
85°	62.3	97.8	271.3	266.9	106.7	80.1	204.6	137.9	80.1	66.7	62.3
87.5°	4.4	4.4	146.8	102.3	66.7	22.2	31.1	31.1	40.0	35.6	44.5
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°	4714.6	4714.6	4714.6	4714.6	4714.6	4714.6	4714.6	4714.6	4714.6	4714.6	4714.6
2.5°	4830.2	4883.6	4892.5	5039.3	5070.4	5039.3	5119.3	5106.0	5141.6	5114.9	5065.9
5°	4941.4	5017.0	5163.8	5275.0	5275.0	5186.0	5114.9	5021.5	4883.6	4848.0	4821.3
7.5°	5132.7	5372.8	5506.3	5435.1	5292.8	4959.2	4496.6	4158.6	3874.0	3767.2	3718.3
10°	5470.7	5604.1	5759.8	5470.7	4879.1	4172.0	3393.6	2882.1	2481.8	2392.9	2326.2
12.5°	5688.6	5902.1	5991.1	5275.0	4114.1	3060.0	2215.0	1636.8	1356.6	1143.1	1107.5
15°	5973.3	6217.9	6035.5	4745.7	3242.4	2005.9	1147.5	716.1	582.7	547.1	547.1
17.5°	6169.0	6435.8	5853.2	4087.4	2299.5	1067.5	569.3	493.7	484.8	489.2	480.4
20°	6511.4	6671.6	5577.4	3322.4	1374.3	547.1	458.1	440.3	431.4	444.8	435.9
22.5°	6640.4	6787.2	5128.2	2406.2	618.2	364.7	342.5	329.1	338.0	333.6	329.1
25°	6631.5	6707.1	4389.9	1378.8	182.4	142.3	129.0	129.0	120.1	124.5	120.1
27.5°	6698.3	6511.4	3562.6	409.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	6733.8	6195.7	2535.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	6751.6	6031.1	1632.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	6889.5	5702.0	698.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	6982.9	5279.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	7369.9	5146.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	7872.4	4896.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	8570.7	4527.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	9495.9	4309.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	10185.3	3967.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	11061.5	3762.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	12102.2	3771.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	13049.6	3709.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	13534.4	3171.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	13432.1	2566.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	13076.3	2014.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	12831.6	1783.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	12088.9	1427.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	9620.4	978.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	6120.1	600.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	2819.8	275.8	8.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	885.1	169.0	35.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	231.3	106.7	35.6	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	120.1	75.6	31.1	13.3	8.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	75.6	31.1	13.3	8.9	8.9	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	66.7	17.8	8.9	8.9	4.4	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)