

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: P482906

Luminaire Tested: **IFLD-L-SA8B-750-U-T3R-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P482906
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-750-U-T3R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens with House Side Shield
Light Source: (128) 5000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

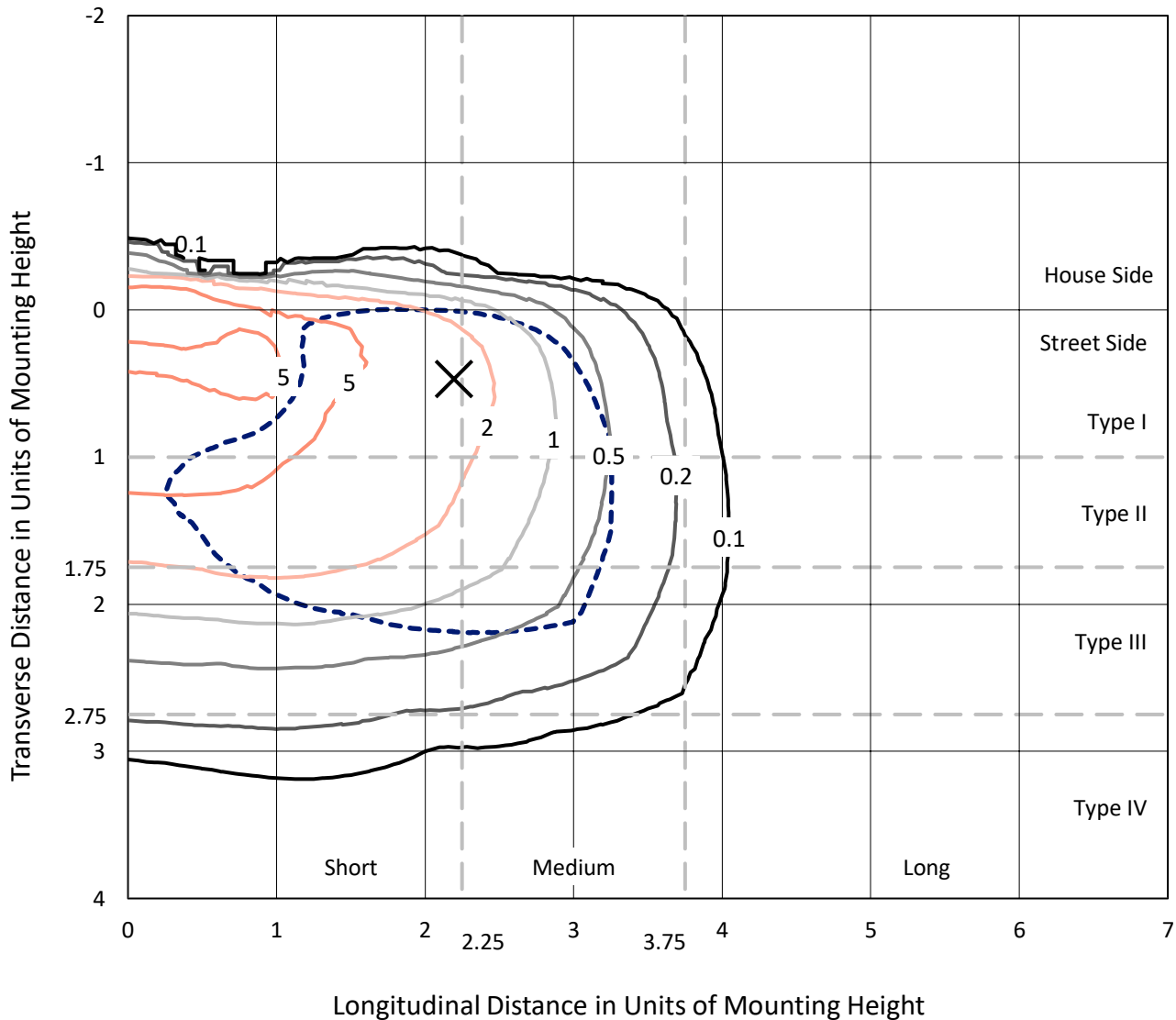
Lumens per Lamp: N/A
Luminaire Lumens: 29841.7 lumens
Efficiency: N/A
Efficacy: 93.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G5

Input Watts (W): 320
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

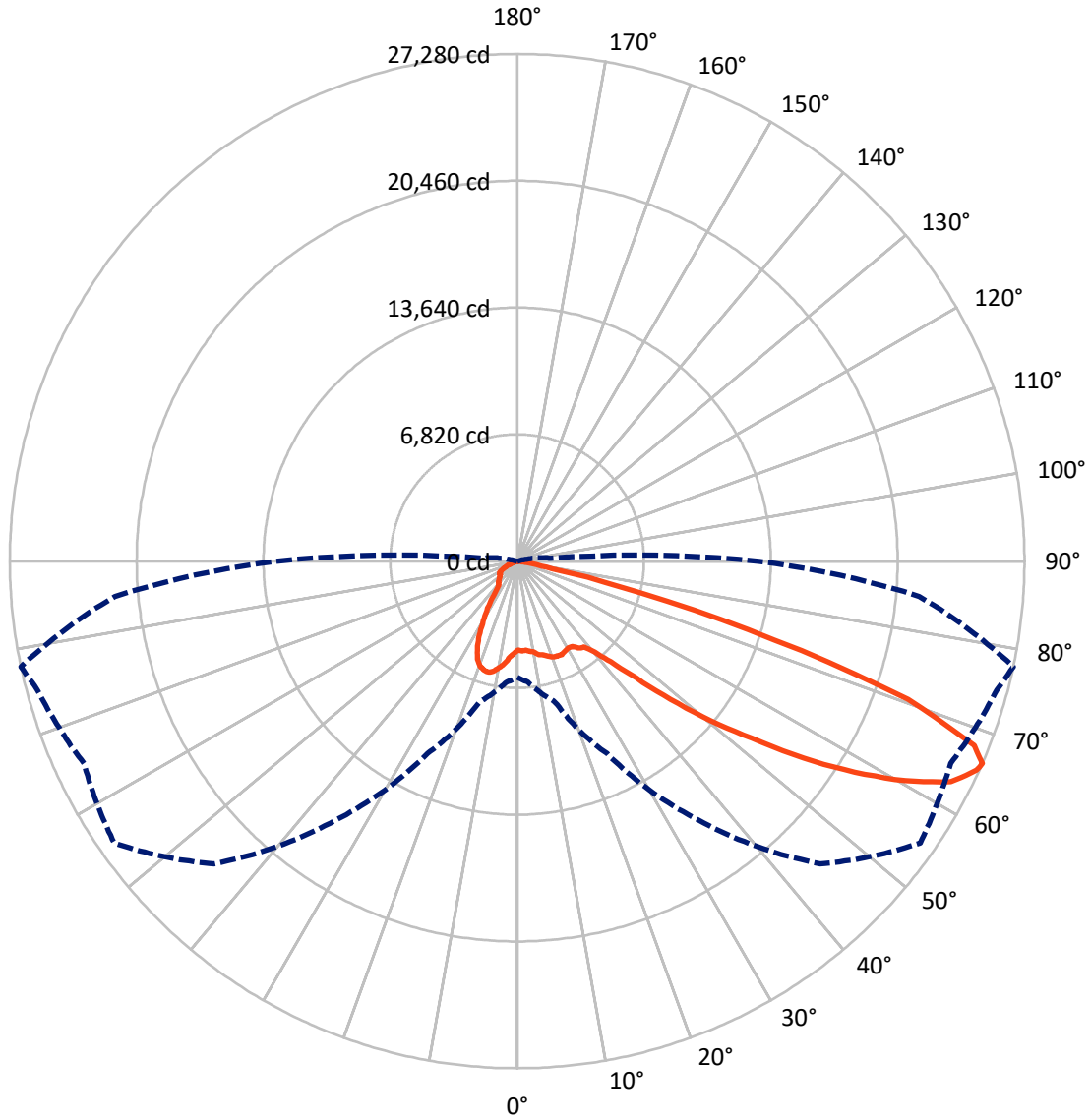
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 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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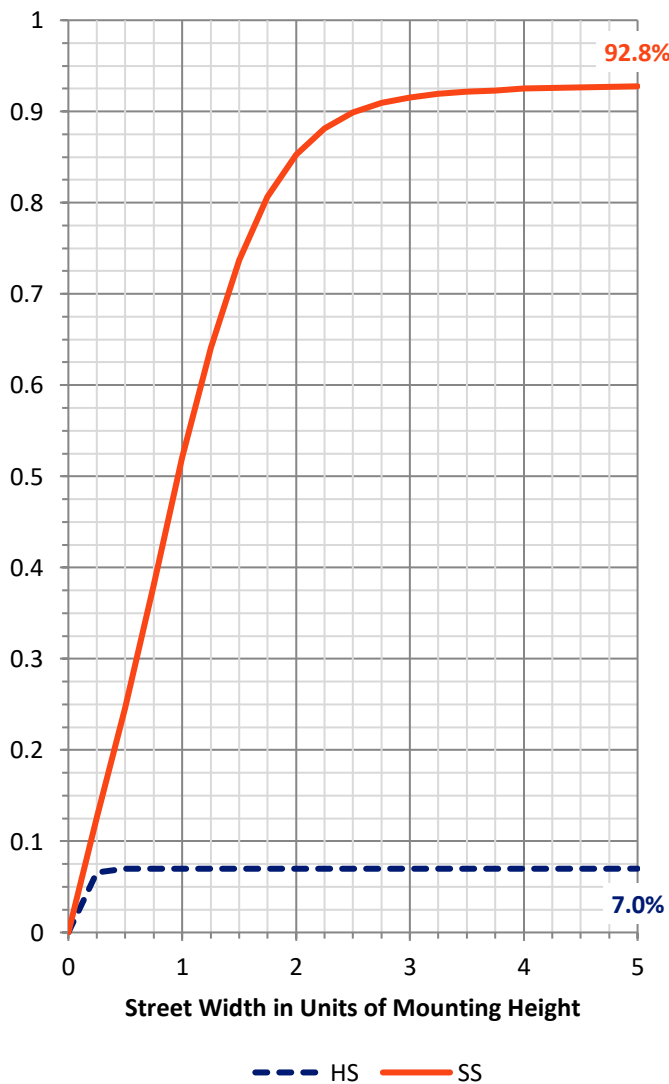
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2098.0	0.0	2098.0
	% Fixture	7.0	0.0	7.0
Street Side	Lumens	27743.7	0.0	27743.7
	% Fixture	93.0	0.0	93.0
Total	Lumens	29841.7	0.0	29841.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	437.3	1.5
10°-20°	987.1	3.3
20°-30°	1410.8	4.7
30°-40°	2415.0	8.1
40°-50°	4358.8	14.6
50°-60°	7454.1	25.0
60°-70°	9174.6	30.7
70°-80°	3468.5	11.6
80°-90°	135.5	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°	29841.7	100.0
0°-180°	29841.7	100.0

Coefficient of Utilization

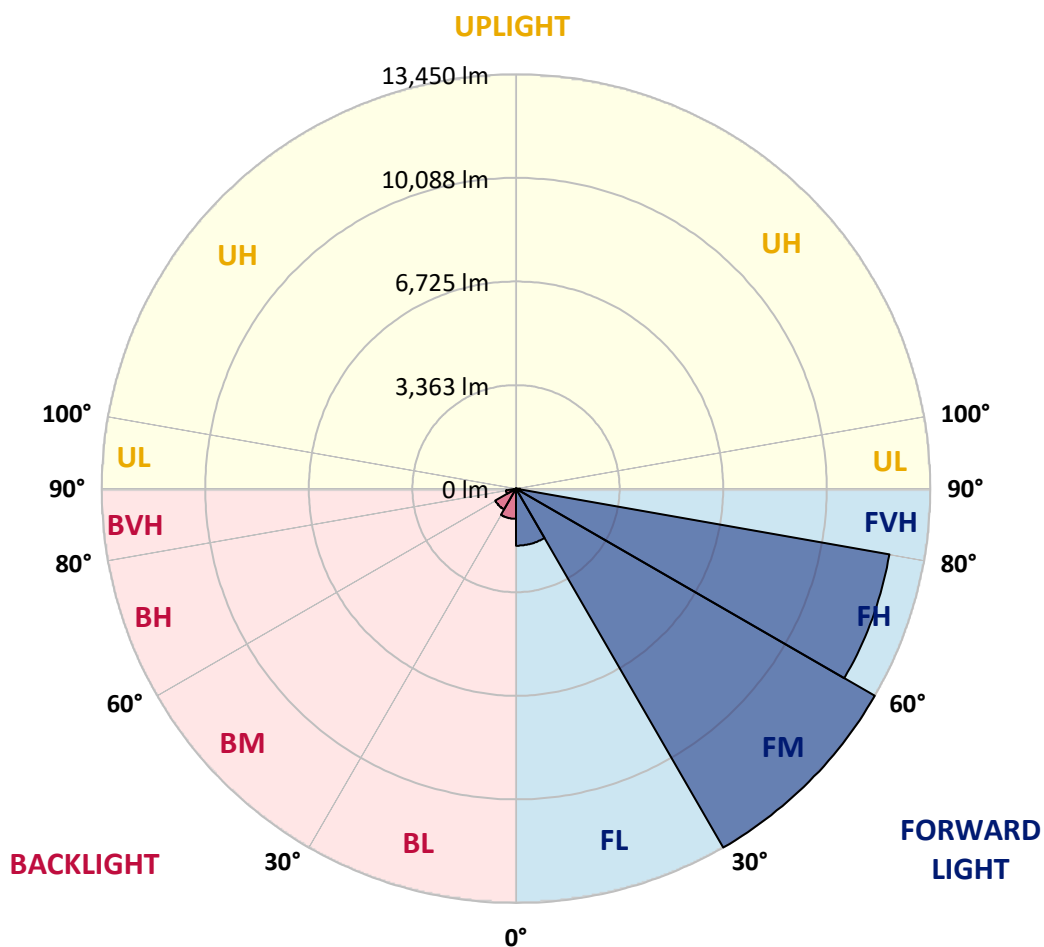


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1852.6	6.2			
FM (30°-60°)	13450.3	45.1			
FH (60°-80°)	12310.8	41.3			G5
FVH (80°-90°)	130.1	0.4			G2/225
BL (0°-30°)	982.6	3.3	B2/1000		
BM (30°-60°)	777.6	2.6	B1/1000		
BH (60°-80°)	332.4	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°	4779.7	4779.7	4779.7	4779.7	4779.7	4779.7	4779.7	4779.7	4779.7	4779.7	4779.7
2.5°	4396.4	4355.8	4396.4	4455.0	4486.6	4513.6	4608.3	4689.5	4775.2	4833.8	4815.7
5°	4076.2	4152.9	4161.9	4180.0	4229.6	4391.9	4446.0	4585.8	4797.7	4815.7	4896.9
7.5°	3823.7	3801.2	3859.8	3977.0	4103.3	4198.0	4355.8	4599.3	4820.2	4896.9	5054.7
10°	3458.5	3503.6	3566.7	3684.0	3837.3	4071.7	4351.3	4621.8	4937.5	4964.5	5257.6
12.5°	3260.1	3215.0	3314.2	3435.9	3697.5	3913.9	4256.6	4581.3	5009.6	5158.4	5496.6
15°	3097.8	3120.3	3215.0	3296.2	3512.6	3787.7	4189.0	4680.5	5131.4	5235.1	5749.1
17.5°	3030.1	3016.6	3088.7	3169.9	3435.9	3747.1	4161.9	4685.0	5239.6	5374.9	5920.5
20°	3061.7	3088.7	3066.2	3142.9	3309.7	3625.3	4202.5	4770.6	5320.8	5505.6	6105.3
22.5°	3557.7	3521.6	3341.3	3197.0	3206.0	3575.7	4170.9	4824.8	5392.9	5541.7	6231.6
25°	4851.8	4657.9	4211.5	3656.9	3291.7	3440.5	4134.9	4806.7	5379.4	5564.3	6308.3
27.5°	6154.9	5988.1	5550.7	4689.5	3638.9	3386.3	4008.6	4820.2	5311.7	5483.1	6182.0
30°	7530.2	7620.4	6971.1	5947.5	4549.7	3684.0	3927.4	4748.1	5266.7	5410.9	6209.1
32.5°	8941.6	8905.5	8513.2	7404.0	5852.8	4342.3	4058.2	4820.2	5325.3	5465.1	6366.9
35°	10046.3	9920.1	9523.3	8522.2	6930.5	5334.3	4509.1	5162.9	5582.3	5749.1	6592.3
37.5°	10591.9	10646.0	10416.1	9545.8	8111.9	6254.2	5072.8	5162.9	5663.5	5857.3	6957.6
40°	11015.8	11178.1	11092.4	10812.9	9284.3	7291.2	5695.0	5483.1	6073.8	6439.0	7643.0
42.5°	11525.3	11448.7	11953.7	11696.7	10817.4	8598.9	6786.2	6245.1	7043.2	7395.0	8671.0
45°	11795.9	12089.0	12472.2	12801.4	12237.8	10231.2	8211.1	7593.4	8526.7	8973.2	10199.6
47.5°	12490.3	12607.5	13229.8	13644.6	13392.1	12098.0	10375.5	9563.8	10393.5	11096.9	11949.2
50°	12896.1	12738.3	13608.5	14239.8	14384.1	13644.6	12314.4	11683.1	12612.0	13509.3	13586.0
52.5°	12539.9	12990.8	13861.0	14992.8	15394.1	15024.4	14591.5	14316.5	14970.3	15800.0	15430.2
55°	11290.8	11597.5	13716.7	15818.0	17112.1	16940.8	17342.1	17161.7	17820.0	18699.3	17585.6
57.5°	10285.3	10668.6	12530.8	16246.4	18712.9	19217.9	19722.9	19610.2	20403.8	21418.3	19411.8
60°	9658.5	9879.5	11674.1	16138.1	19659.8	21571.6	22712.4	21918.8	23213.0	23988.5	20841.2
62.5°	8571.8	8711.6	10425.1	14704.2	19943.8	23235.5	25169.9	24092.2	25215.0	26161.9	21869.2
65°	6871.9	7250.7	8666.5	12557.9	18068.0	23542.1	26703.0	25435.9	26522.6	27144.9	22180.4
66°	6254.2	6529.2	7827.8	11421.6	16999.4	23032.6	26446.0	25715.5	26712.0	27280.2	21702.4
67.5°	5190.0	5429.0	6461.6	9802.8	14812.5	21909.8	26626.4	25526.1	26856.3	26509.1	21062.1
70°	3435.9	3589.3	4418.9	6628.4	10316.9	17923.8	24696.5	24047.1	23609.8	22306.6	16467.3
72.5°	1605.2	1826.2	2759.6	4017.6	6051.2	12539.9	20137.7	19267.5	16557.5	14474.3	10389.0
75°	726.0	825.2	1515.1	2304.2	2714.5	6497.6	12990.8	11732.7	8242.7	6844.8	4549.7
77.5°	392.3	446.4	739.5	1095.7	987.5	2277.1	6430.0	5347.8	2597.3	1902.8	1321.2
80°	302.1	356.2	617.7	626.8	365.2	590.7	2389.8	1654.8	649.3	491.5	315.6
82.5°	157.8	225.5	487.0	405.8	184.9	239.0	739.5	459.9	202.9	162.3	135.3
85°	63.1	99.2	275.1	270.5	108.2	81.2	207.4	139.8	81.2	67.6	63.1
87.5°	4.5	4.5	148.8	103.7	67.6	22.5	31.6	31.6	40.6	36.1	45.1
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°	4779.7	4779.7	4779.7	4779.7	4779.7	4779.7	4779.7	4779.7	4779.7	4779.7	4779.7
2.5°	4896.9	4951.0	4960.0	5108.8	5140.4	5108.8	5190.0	5176.5	5212.5	5185.5	5135.9
5°	5009.6	5086.3	5235.1	5347.8	5347.8	5257.6	5185.5	5090.8	4951.0	4914.9	4887.9
7.5°	5203.5	5447.0	5582.3	5510.1	5365.9	5027.7	4558.7	4216.0	3927.4	3819.2	3769.6
10°	5546.2	5681.5	5839.3	5546.2	4946.5	4229.6	3440.5	2921.9	2516.1	2425.9	2358.3
12.5°	5767.2	5983.6	6073.8	5347.8	4170.9	3102.3	2245.5	1659.4	1375.3	1158.8	1122.8
15°	6055.7	6303.8	6118.9	4811.2	3287.1	2033.6	1163.4	726.0	590.7	554.6	554.6
17.5°	6254.2	6524.7	5934.0	4143.9	2331.2	1082.2	577.2	500.5	491.5	496.0	487.0
20°	6601.4	6763.7	5654.4	3368.3	1393.3	554.6	464.4	446.4	437.4	450.9	441.9
22.5°	6732.1	6880.9	5199.0	2439.4	626.8	369.7	347.2	333.7	342.7	338.2	333.7
25°	6723.1	6799.8	4450.5	1397.8	184.9	144.3	130.8	130.8	121.7	126.3	121.7
27.5°	6790.7	6601.4	3611.8	414.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	6826.8	6281.2	2570.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	6844.8	6114.4	1654.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	6984.6	5780.7	707.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	7079.3	5352.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	7471.6	5217.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	7981.1	4964.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	8689.1	4590.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	9627.0	4369.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	10325.9	4022.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	11214.2	3814.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	12269.3	3823.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	13229.8	3760.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	13721.3	3215.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	13617.5	2601.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	13256.8	2042.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	13008.8	1808.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	12255.8	1447.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	9753.2	992.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	6204.5	608.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	2858.8	279.6	9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	897.3	171.3	36.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	234.5	108.2	36.1	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	121.7	76.7	31.6	13.5	9.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	76.7	31.6	13.5	9.0	9.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	67.6	18.0	9.0	9.0	4.5	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)