

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: P481855

Luminaire Tested: **IFLD-L-SA8D-830-U-T2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481855
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8D-830-U-T2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield
Light Source: (128) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

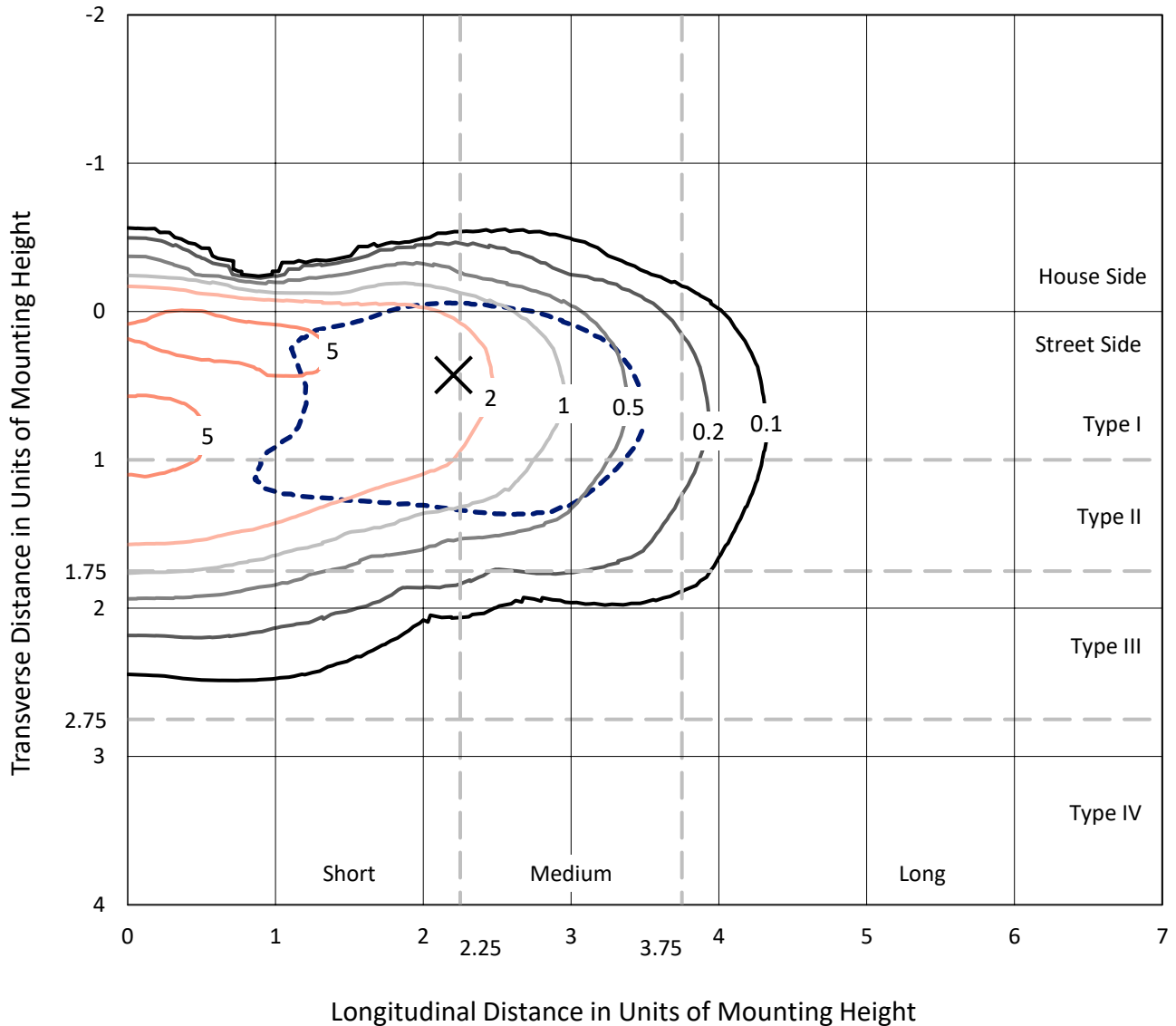
Lumens per Lamp: N/A
Luminaire Lumens: 31900 lumens
Efficiency: N/A
Efficacy: 65.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 488.3
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

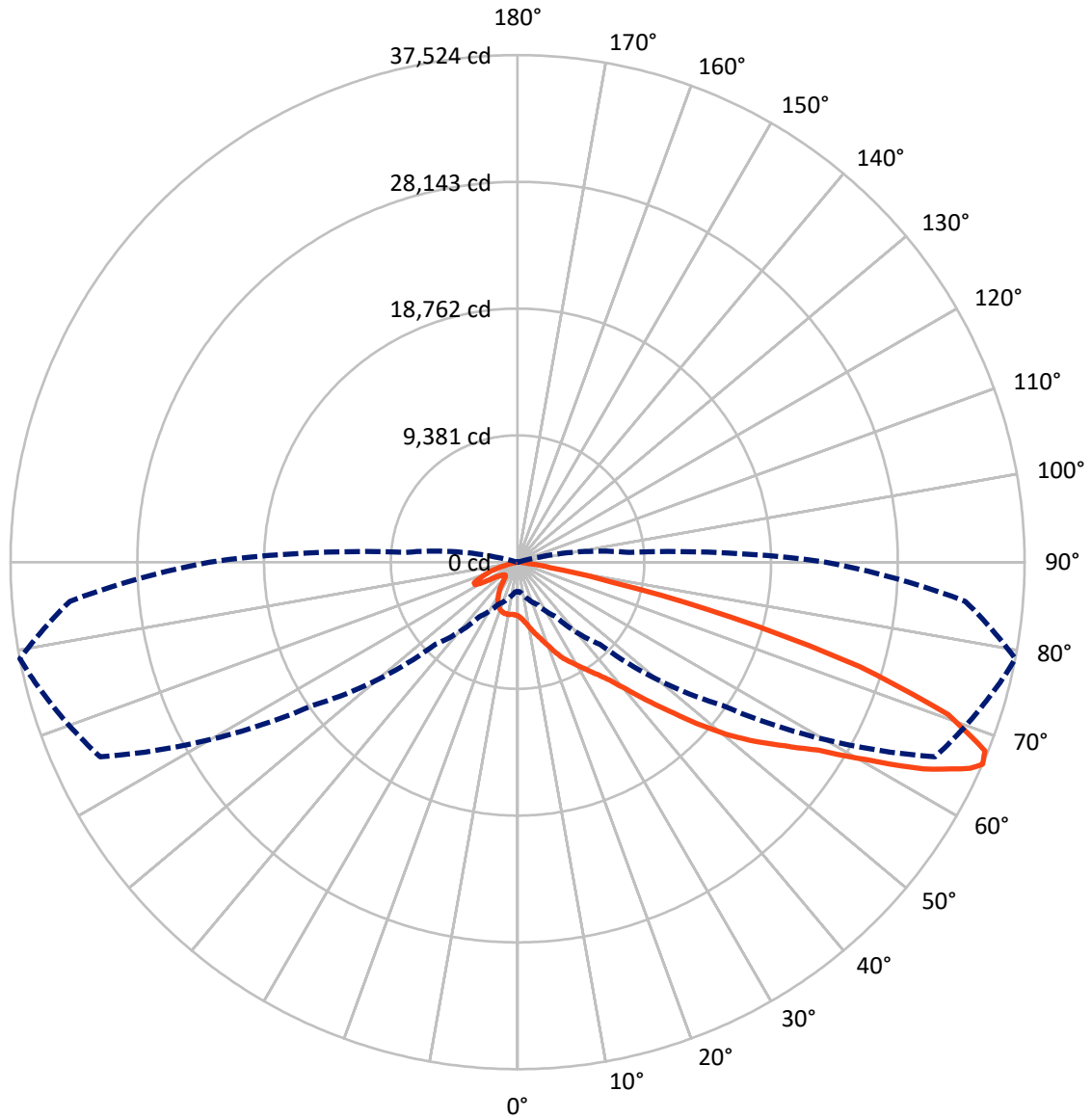
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.6 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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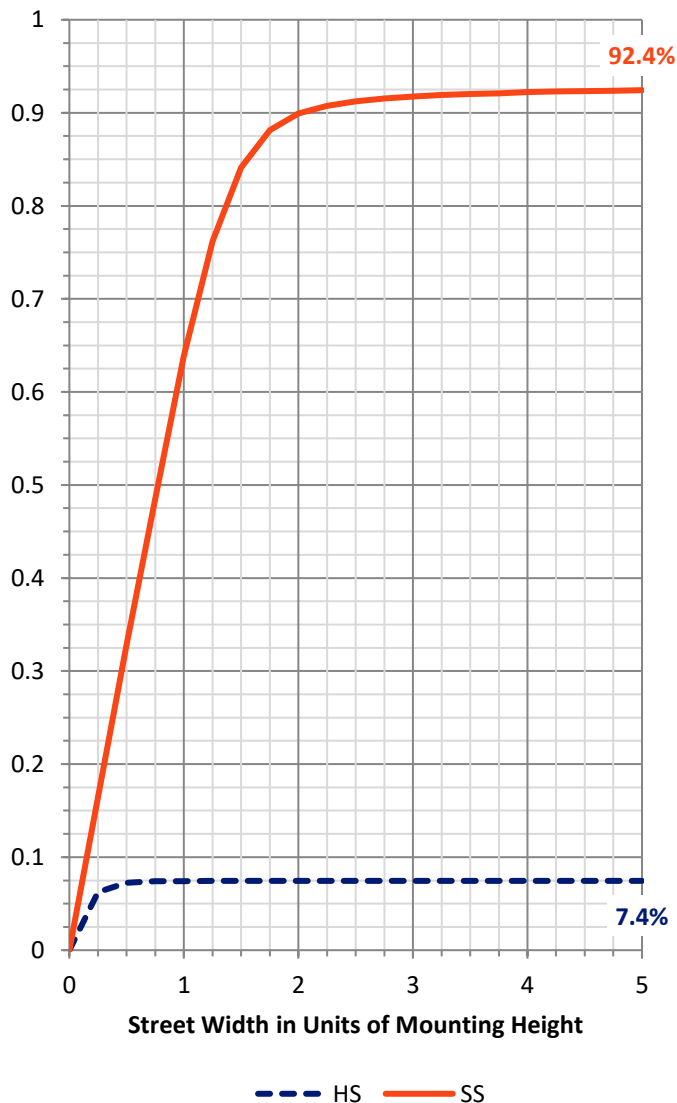
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2395.2	0.0	2395.2
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	29504.8	0.0	29504.8
	% Fixture	92.5	0.0	92.5
Total	Lumens	31900.0	0.0	31900.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	375.3	1.2
10°-20°	1033.0	3.2
20°-30°	1716.0	5.4
30°-40°	2947.5	9.2
40°-50°	5339.7	16.7
50°-60°	8440.6	26.5
60°-70°	8588.9	26.9
70°-80°	3275.4	10.3
80°-90°	183.6	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°	31900.0	100.0
0°-180°	31900.0	100.0

Coefficient of Utilization

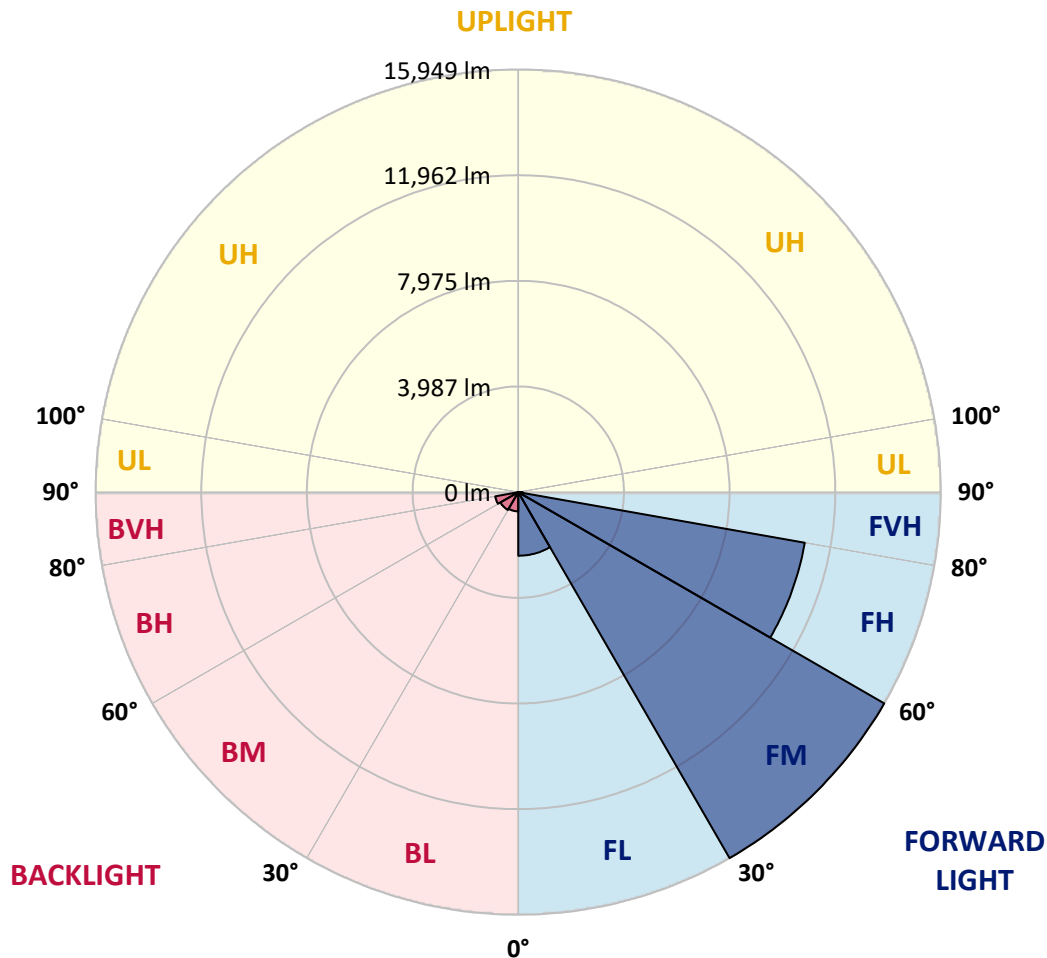


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2399.9	7.5			
FM (30°-60°)	15949.3	50.0			
FH (60°-80°)	10981.3	34.4			G4/12000
FVH (80°-90°)	174.2	0.5			G2/225
BL (0°-30°)	724.4	2.3	B2/1000		
BM (30°-60°)	778.5	2.4	B1/1000		
BH (60°-80°)	883.0	2.8	B2/1000		G2/1000
BVH (80°-90°)	9.4	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-G4
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	3968.7	3968.7	3968.7	3968.7	3968.7	3968.7	3968.7	3968.7	3968.7	3968.7	3968.7
2.5°	4495.0	4490.0	4470.4	4435.9	4391.7	4376.9	4313.0	4224.5	4175.3	4121.2	4096.6
5°	4804.8	4780.2	4839.2	4814.6	4824.5	4706.4	4627.7	4563.8	4376.9	4303.2	4185.1
7.5°	4873.6	4898.2	4893.3	4932.7	4972.0	5016.3	4962.2	4868.7	4681.8	4573.6	4445.8
10°	4873.6	4863.8	4903.1	4957.2	5070.4	5168.7	5316.3	5193.3	5050.7	4922.8	4691.7
12.5°	4785.1	4770.4	4809.7	4922.8	5124.5	5326.1	5488.4	5606.4	5404.8	5301.5	5001.5
15°	4514.6	4499.9	4662.2	4863.8	5129.4	5458.9	5798.2	5990.0	5852.3	5690.0	5355.6
17.5°	4180.2	4199.9	4372.0	4706.4	5129.4	5522.8	5955.6	6373.6	6353.9	6147.4	5798.2
20°	4067.1	4081.9	4254.0	4495.0	4976.9	5567.1	6201.5	6791.6	6909.7	6663.8	6206.4
22.5°	4283.5	4268.7	4283.5	4431.0	4873.6	5527.7	6363.8	7268.7	7480.1	7288.3	6742.4
25°	5021.2	5011.3	4888.4	4662.2	4814.6	5439.2	6447.4	7583.4	8070.3	7893.2	7175.2
27.5°	6103.1	6063.8	5872.0	5399.9	5090.0	5493.3	6585.1	7888.3	8586.7	8385.0	7563.7
30°	7263.7	7170.3	6919.5	6329.3	5803.1	5694.9	6663.8	8114.5	9162.0	8906.3	7903.1
32.5°	8065.4	8188.3	8109.6	7509.6	6703.1	6162.1	6791.6	8399.8	9693.2	9526.0	8483.4
35°	9304.7	9447.3	9117.8	8586.7	7775.2	6904.7	7062.1	8630.9	10509.6	10229.2	9024.3
37.5°	10868.6	10976.8	10740.7	9732.5	8876.8	7819.5	7617.8	9112.9	11212.8	11080.0	9717.8
40°	11655.4	12176.7	11842.3	10932.5	10012.8	9098.1	8537.5	9678.4	12437.4	12329.2	10676.8
42.5°	12742.3	13002.9	12830.8	12157.1	11198.1	10465.3	9673.5	10780.0	13922.6	13922.6	11975.1
45°	13893.1	13902.9	13893.1	13342.3	12491.5	12112.8	11207.9	12162.0	15520.9	15697.9	13529.1
47.5°	14837.3	15132.4	15107.8	14778.3	14119.3	13976.7	12742.3	13735.7	17527.4	17837.2	15043.9
50°	15324.2	15653.7	15752.0	15924.2	15894.7	16194.6	14419.3	15560.2	19258.5	20020.8	16991.3
52.5°	15191.4	15216.0	15820.9	16499.6	17581.5	18422.5	16440.5	17630.7	21284.7	22037.1	18496.2
55°	14104.5	14011.1	15255.3	16032.4	18270.0	19784.7	19238.8	20212.6	22863.3	24009.2	20050.3
57.5°	11719.4	11743.9	12894.7	14473.4	17758.5	20325.7	22228.9	23586.3	25076.4	26232.1	22233.8
60°	8089.9	8060.4	9348.9	11173.5	14753.7	19317.5	23950.2	27958.3	28037.0	29674.6	26153.4
62.5°	4549.1	4558.9	5537.6	7096.5	10322.7	15786.5	23866.6	32600.8	32266.3	33702.4	30609.0
65°	2577.0	2640.9	3314.7	4204.8	6181.8	10598.1	20527.3	34449.9	35526.9	36805.6	33313.9
66°	2178.6	2222.9	2798.3	3472.0	4932.7	8596.5	18476.6	34090.9	36549.8	37523.6	33259.8
67.5°	1686.8	1745.9	2227.8	2754.0	3619.6	5950.7	14871.7	32305.7	36736.7	37307.2	32320.4
70°	1155.7	1195.0	1563.9	2090.1	2473.7	3044.2	8891.6	26709.1	33333.5	33815.5	28091.0
72.5°	811.5	831.1	1096.7	1583.6	1903.2	1740.9	4411.4	19002.8	25509.2	26448.5	21850.2
75°	585.2	604.9	752.4	1136.0	1485.2	1141.0	2021.3	12137.4	15643.8	16381.5	13160.3
77.5°	422.9	447.5	511.5	732.8	1077.0	801.6	993.4	6339.2	7376.9	7249.0	5660.5
80°	255.7	280.3	378.7	472.1	786.9	565.6	545.9	2645.8	2616.3	2483.5	1780.3
82.5°	118.0	137.7	201.6	319.7	550.8	393.4	260.6	944.2	826.2	757.4	501.6
85°	34.4	44.3	118.0	241.0	280.3	191.8	157.4	324.6	339.3	290.2	167.2
87.5°	0.0	4.9	54.1	59.0	83.6	63.9	59.0	83.6	157.4	127.9	54.1
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°	3968.7	3968.7	3968.7	3968.7	3968.7	3968.7	3968.7	3968.7	3968.7	3968.7	3968.7
2.5°	4008.1	3973.7	3890.1	3762.2	3649.1	3590.1	3506.5	3432.7	3393.4	3388.4	3383.5
5°	4106.4	4013.0	3811.4	3580.2	3408.1	3221.2	3093.4	2999.9	2911.4	2827.8	2877.0
7.5°	4239.2	4091.7	3762.2	3462.2	3088.4	2847.5	2621.2	2488.5	2409.8	2336.0	2326.2
10°	4445.8	4258.9	3727.8	3186.8	2758.9	2404.9	2173.7	1981.9	1873.7	1745.9	1795.0
12.5°	4726.1	4391.7	3599.9	2936.0	2385.2	2011.4	1681.9	1372.1	1200.0	1067.2	1072.1
15°	5006.4	4568.7	3481.9	2631.1	2045.8	1554.1	1072.1	860.6	811.5	781.9	791.8
17.5°	5281.8	4711.3	3299.9	2321.2	1657.3	988.5	781.9	737.7	713.1	683.6	683.6
20°	5616.2	4804.8	3073.7	2036.0	1141.0	732.8	668.8	639.3	600.0	560.6	565.6
22.5°	5940.8	4883.5	2813.0	1672.1	767.2	634.4	560.6	521.3	486.9	447.5	447.5
25°	6265.4	4908.1	2473.7	1200.0	619.7	506.5	437.7	383.6	349.2	314.7	319.7
27.5°	6486.7	4755.6	2154.0	767.2	496.7	383.6	304.9	260.6	231.1	196.7	196.7
30°	6614.6	4475.3	1809.8	541.0	373.8	260.6	182.0	137.7	108.2	83.6	78.7
32.5°	6742.4	4249.1	1421.3	413.1	245.9	137.7	68.9	24.6	0.0	0.0	0.0
35°	6998.2	3993.3	954.1	231.1	83.6	4.9	0.0	0.0	0.0	0.0	0.0
37.5°	7160.5	3639.2	437.7	34.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	7568.6	3462.2	108.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	8232.6	3339.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	8960.4	3290.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	9929.2	3422.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	10952.2	3781.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	12073.4	4121.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	13052.1	4529.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	14852.1	5493.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	18083.1	7386.7	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	21722.4	8793.2	54.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	23055.1	8758.8	93.4	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	22819.1	8276.8	93.4	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	21594.5	7352.3	83.6	9.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	18545.4	6073.6	83.6	14.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	14139.0	4731.0	78.7	19.7	4.9	0.0	0.0	0.0	0.0	0.0	0.0
75°	8532.6	2518.0	63.9	24.6	9.8	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	3398.3	885.2	49.2	19.7	9.8	0.0	0.0	0.0	0.0	0.0	0.0
80°	919.6	265.6	29.5	19.7	14.8	4.9	0.0	0.0	0.0	0.0	0.0
82.5°	241.0	98.4	24.6	19.7	9.8	4.9	0.0	0.0	0.0	0.0	0.0
85°	93.4	39.3	19.7	14.8	14.8	9.8	4.9	0.0	0.0	0.0	0.0
87.5°	29.5	14.8	14.8	9.8	9.8	4.9	4.9	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)