

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: P482864

Luminaire Tested: **IFLD-L-SA7D-740-U-T3R-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482864
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-740-U-T3R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R
distribution lens with House Side Shield
Light Source: (112) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

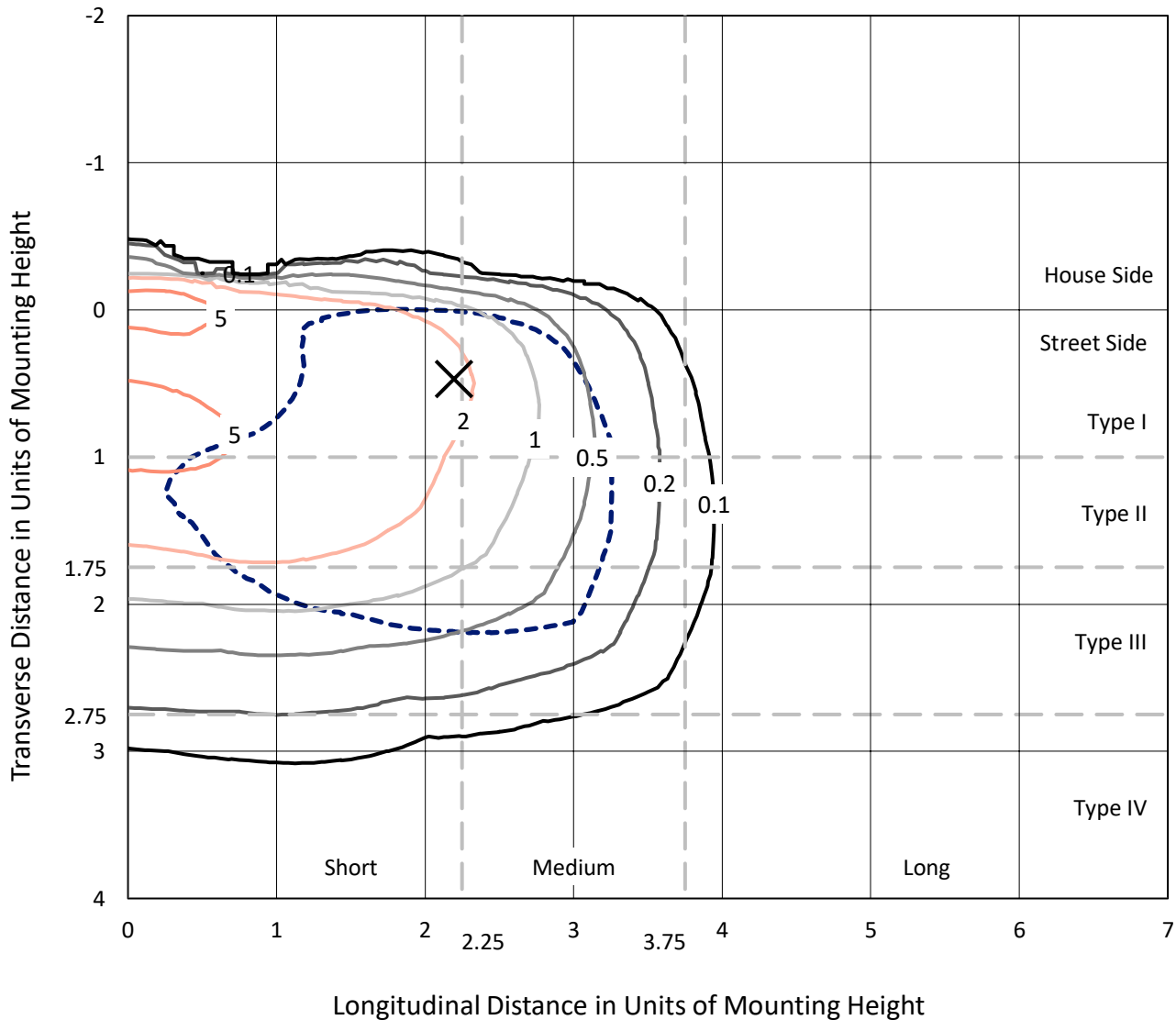
Lumens per Lamp: N/A
Luminaire Lumens: 34965.8 lumens
Efficiency: N/A
Efficacy: 82.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 422.6
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

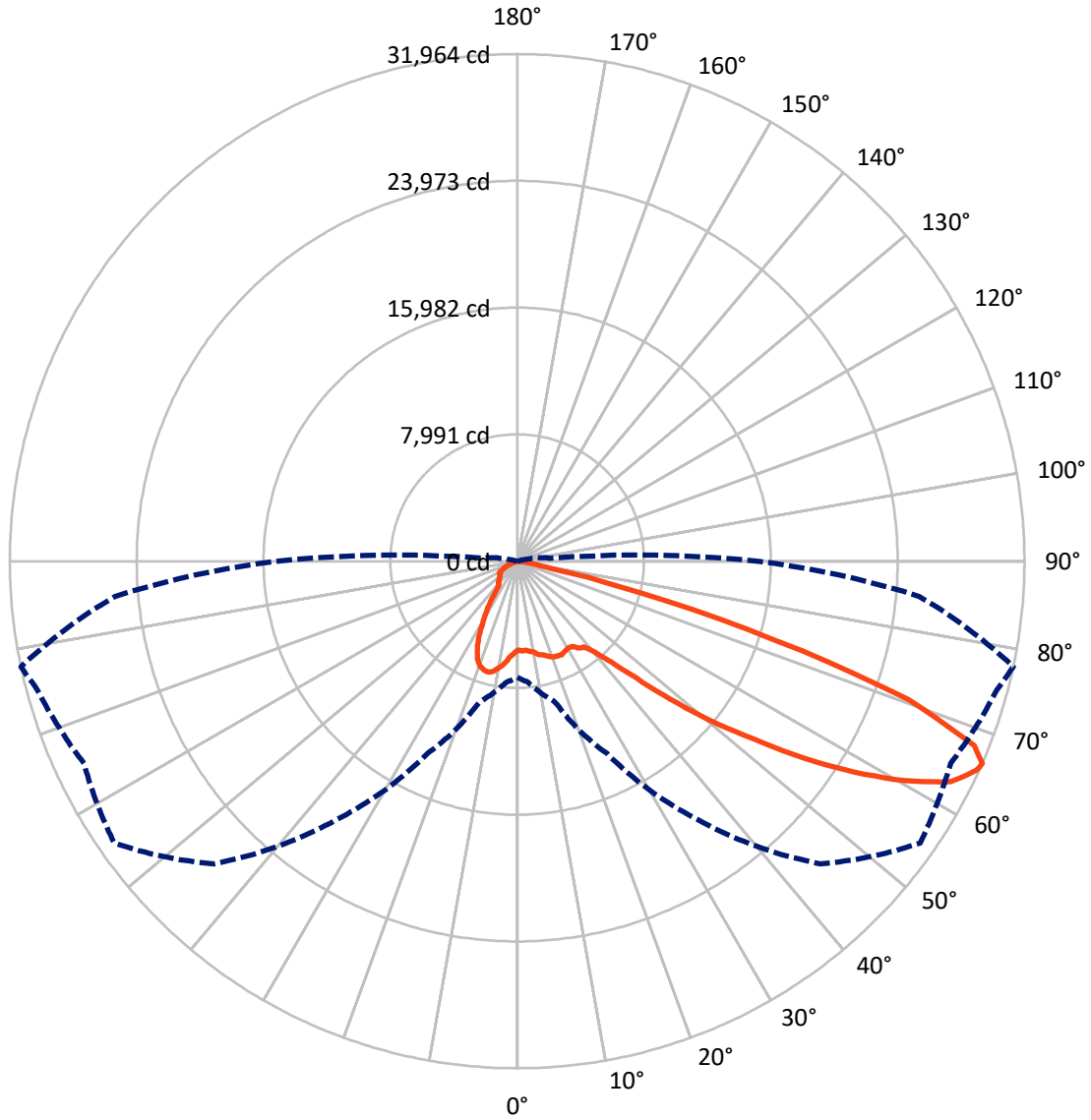
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.1 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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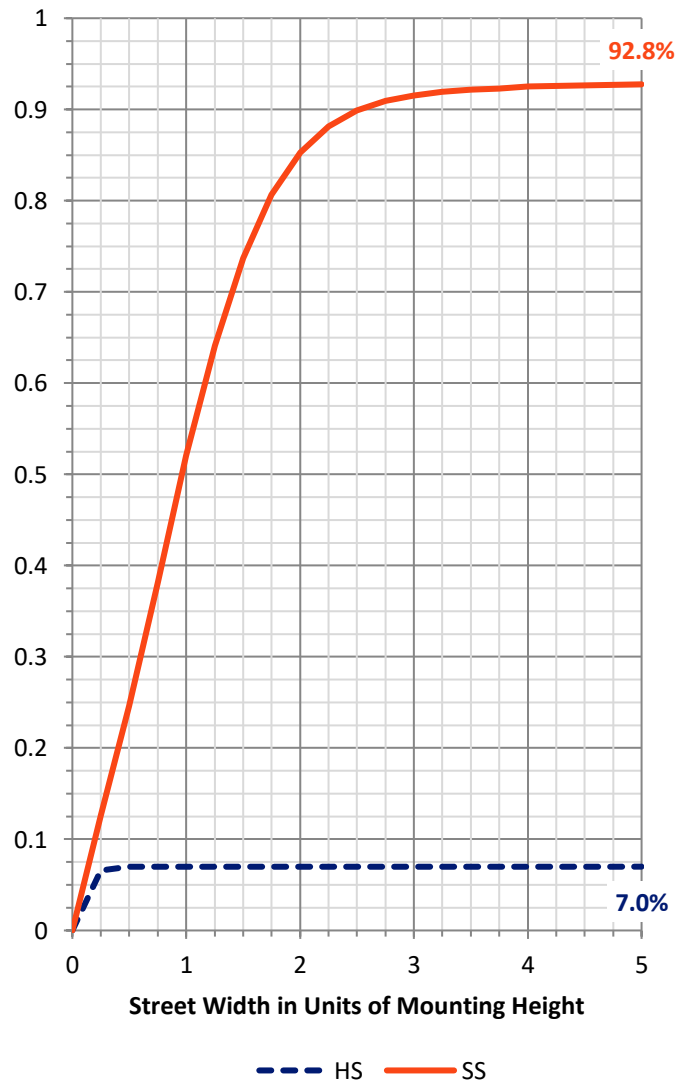
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2458.3	0.0	2458.3
	% Fixture	7.0	0.0	7.0
Street Side	Lumens	32507.5	0.0	32507.5
	% Fixture	93.0	0.0	93.0
Total	Lumens	34965.8	0.0	34965.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	512.3	1.5
10°-20°	1156.6	3.3
20°-30°	1653.1	4.7
30°-40°	2829.7	8.1
40°-50°	5107.2	14.6
50°-60°	8734.0	25.0
60°-70°	10750.0	30.7
70°-80°	4064.1	11.6
80°-90°	158.8	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°	34965.8	100.0
0°-180°	34965.8	100.0

Coefficient of Utilization

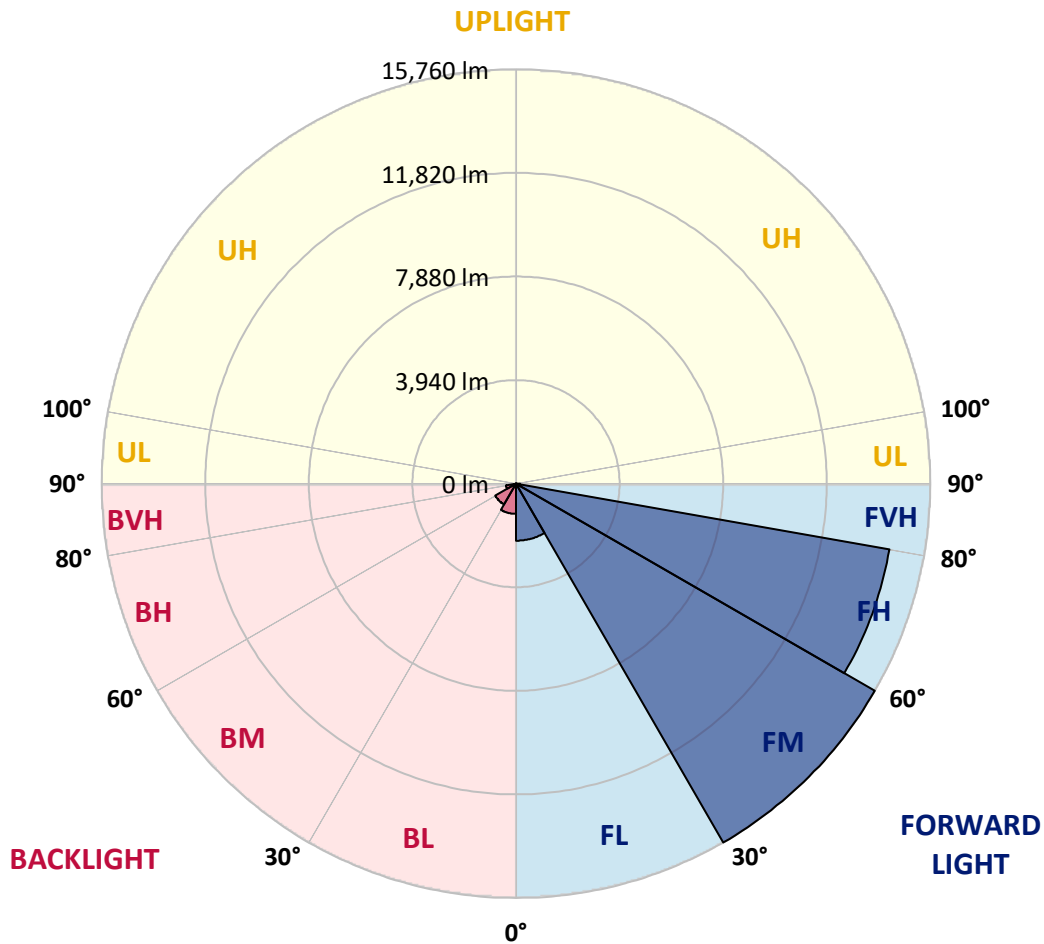


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2170.7	6.2			
FM (30°-60°)	15759.8	45.1			
FH (60°-80°)	14424.7	41.3			G5
FVH (80°-90°)	152.4	0.4			G2/225
BL (0°-30°)	1151.3	3.3	B3/2500		
BM (30°-60°)	911.1	2.6	B1/1000		
BH (60°-80°)	389.5	1.1	B1/500		G1/500
BVH (80°-90°)	6.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	5600.4	5600.4	5600.4	5600.4	5600.4	5600.4	5600.4	5600.4	5600.4	5600.4	5600.4
2.5°	5151.3	5103.7	5151.3	5220.0	5257.0	5288.7	5399.6	5494.7	5595.1	5663.8	5642.6
5°	4776.2	4866.0	4876.6	4897.7	4955.8	5146.0	5209.4	5373.2	5621.5	5642.6	5737.8
7.5°	4480.3	4453.9	4522.6	4659.9	4807.9	4918.8	5103.7	5389.0	5647.9	5737.8	5922.7
10°	4052.4	4105.2	4179.2	4316.5	4496.2	4770.9	5098.5	5415.5	5785.3	5817.0	6160.4
12.5°	3819.9	3767.0	3883.3	4025.9	4332.4	4586.0	4987.5	5367.9	5869.8	6044.2	6440.4
15°	3629.7	3656.1	3767.0	3862.2	4115.8	4438.0	4908.3	5484.1	6012.5	6134.0	6736.3
17.5°	3550.4	3534.6	3619.1	3714.2	4025.9	4390.5	4876.6	5489.4	6139.3	6297.8	6937.1
20°	3587.4	3619.1	3592.7	3682.5	3878.0	4247.8	4924.1	5589.8	6234.4	6451.0	7153.7
22.5°	4168.6	4126.3	3915.0	3745.9	3756.5	4189.7	4887.1	5653.2	6318.9	6493.3	7301.6
25°	5684.9	5457.7	4934.7	4284.8	3856.9	4031.2	4844.9	5632.1	6303.1	6519.7	7391.4
27.5°	7211.8	7016.3	6503.8	5494.7	4263.7	3967.8	4696.9	5647.9	6223.8	6424.6	7243.5
30°	8823.2	8928.9	8168.1	6968.8	5330.9	4316.5	4601.8	5563.4	6171.0	6340.1	7275.2
32.5°	10476.9	10434.7	9975.0	8675.3	6857.8	5087.9	4755.0	5647.9	6239.7	6403.5	7460.1
35°	11771.4	11623.4	11158.5	9985.6	8120.6	6250.2	5283.4	6049.5	6540.8	6736.3	7724.3
37.5°	12410.7	12474.1	12204.6	11184.9	9504.8	7328.0	5943.8	6049.5	6635.9	6863.1	8152.3
40°	12907.3	13097.5	12997.1	12669.5	10878.5	8543.2	6672.9	6424.6	7116.7	7544.7	8955.3
42.5°	13504.3	13414.5	14006.2	13705.1	12674.8	10075.4	7951.5	7317.5	8252.6	8664.7	10159.9
45°	13821.3	14164.7	14613.8	14999.5	14339.1	11988.0	9621.0	8897.2	9990.9	10513.9	11951.0
47.5°	14635.0	14772.3	15501.4	15987.5	15691.6	14175.3	12157.1	11206.0	12178.2	13002.4	14001.0
50°	15110.5	14925.5	15945.2	16684.9	16854.0	15987.5	14428.9	13689.2	14777.6	15829.0	15918.8
52.5°	14693.1	15221.4	16241.1	17567.2	18037.5	17604.2	17097.0	16774.7	17540.8	18513.0	18079.7
55°	13229.6	13588.9	16072.0	18534.1	20050.4	19849.7	20319.9	20108.5	20879.9	21910.2	20605.2
57.5°	12051.4	12500.5	14682.5	19036.0	21926.0	22517.8	23109.5	22977.4	23907.3	25096.1	22745.0
60°	11317.0	11575.9	13678.7	18909.2	23035.5	25275.7	26612.4	25682.5	27198.8	28107.6	24419.8
62.5°	10043.7	10207.5	12215.2	17229.1	23368.4	27225.3	29491.8	28229.1	29544.7	30654.2	25624.4
65°	8051.9	8495.7	10154.7	14714.2	21170.5	27584.5	31288.2	29803.5	31076.8	31805.9	25988.9
66°	7328.0	7650.3	9171.9	13382.8	19918.3	26987.5	30987.0	30131.1	31298.7	31964.4	25428.9
67.5°	6081.2	6361.2	7571.1	11486.1	17355.9	25671.9	31198.4	29909.2	31467.8	31061.0	24678.7
70°	4025.9	4205.6	5177.7	7766.6	12088.4	21001.4	28937.1	28176.3	27663.8	26136.9	19294.9
72.5°	1880.9	2139.8	3233.4	4707.5	7090.3	14693.1	23595.6	22575.9	19400.6	16959.6	12172.9
75°	850.6	966.9	1775.2	2699.8	3180.6	7613.4	15221.4	13747.4	9658.0	8020.2	5330.9
77.5°	459.7	523.1	866.5	1283.9	1157.1	2668.1	7534.1	6266.1	3043.2	2229.6	1548.0
80°	354.0	417.4	723.8	734.4	428.0	692.1	2800.2	1939.0	760.8	575.9	369.8
82.5°	184.9	264.2	570.6	475.5	216.6	280.0	866.5	538.9	237.8	190.2	158.5
85°	74.0	116.2	322.3	317.0	126.8	95.1	243.0	163.8	95.1	79.3	74.0
87.5°	5.3	5.3	174.4	121.5	79.3	26.4	37.0	37.0	47.6	42.3	52.8
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°	5600.4	5600.4	5600.4	5600.4	5600.4	5600.4	5600.4	5600.4	5600.4	5600.4	5600.4
2.5°	5737.8	5801.2	5811.7	5986.1	6023.1	5986.1	6081.2	6065.3	6107.6	6075.9	6017.8
5°	5869.8	5959.7	6134.0	6266.1	6266.1	6160.4	6075.9	5964.9	5801.2	5758.9	5727.2
7.5°	6097.0	6382.3	6540.8	6456.3	6287.2	5891.0	5341.5	4940.0	4601.8	4475.0	4416.9
10°	6498.6	6657.1	6842.0	6498.6	5795.9	4955.8	4031.2	3423.6	2948.1	2842.5	2763.2
12.5°	6757.4	7011.0	7116.7	6266.1	4887.1	3635.0	2631.1	1944.3	1611.4	1357.8	1315.6
15°	7095.6	7386.2	7169.5	5637.4	3851.6	2382.8	1363.1	850.6	692.1	649.9	649.9
17.5°	7328.0	7645.1	6952.9	4855.4	2731.5	1268.0	676.3	586.5	575.9	581.2	570.6
20°	7734.9	7925.1	6625.4	3946.7	1632.6	649.9	544.2	523.1	512.5	528.3	517.8
22.5°	7888.1	8062.4	6091.7	2858.3	734.4	433.2	406.8	391.0	401.5	396.3	391.0
25°	7877.5	7967.3	5214.7	1637.8	216.6	169.1	153.2	153.2	142.7	147.9	142.7
27.5°	7956.8	7734.9	4232.0	486.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	7999.0	7359.7	3011.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	8020.2	7164.3	1939.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	8184.0	6773.3	829.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	8294.9	6271.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	8754.6	6112.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	9351.6	5817.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	10181.1	5378.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	11280.0	5119.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	12098.9	4712.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	13139.8	4469.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	14376.1	4480.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	15501.4	4406.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	16077.3	3767.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	15955.8	3048.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	15533.1	2393.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	15242.6	2118.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	14360.2	1696.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	11428.0	1162.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	7269.9	713.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	3349.7	327.6	10.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1051.4	200.8	42.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	274.7	126.8	42.3	5.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	142.7	89.8	37.0	15.9	10.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	89.8	37.0	15.9	10.6	10.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	79.3	21.1	10.6	10.6	5.3	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)