

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: P483020

Luminaire Tested: **IFLD-L-SA7D-830-U-T3R-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P483020
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-830-U-T3R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R
distribution lens with House Side Shield
Light Source: (112) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

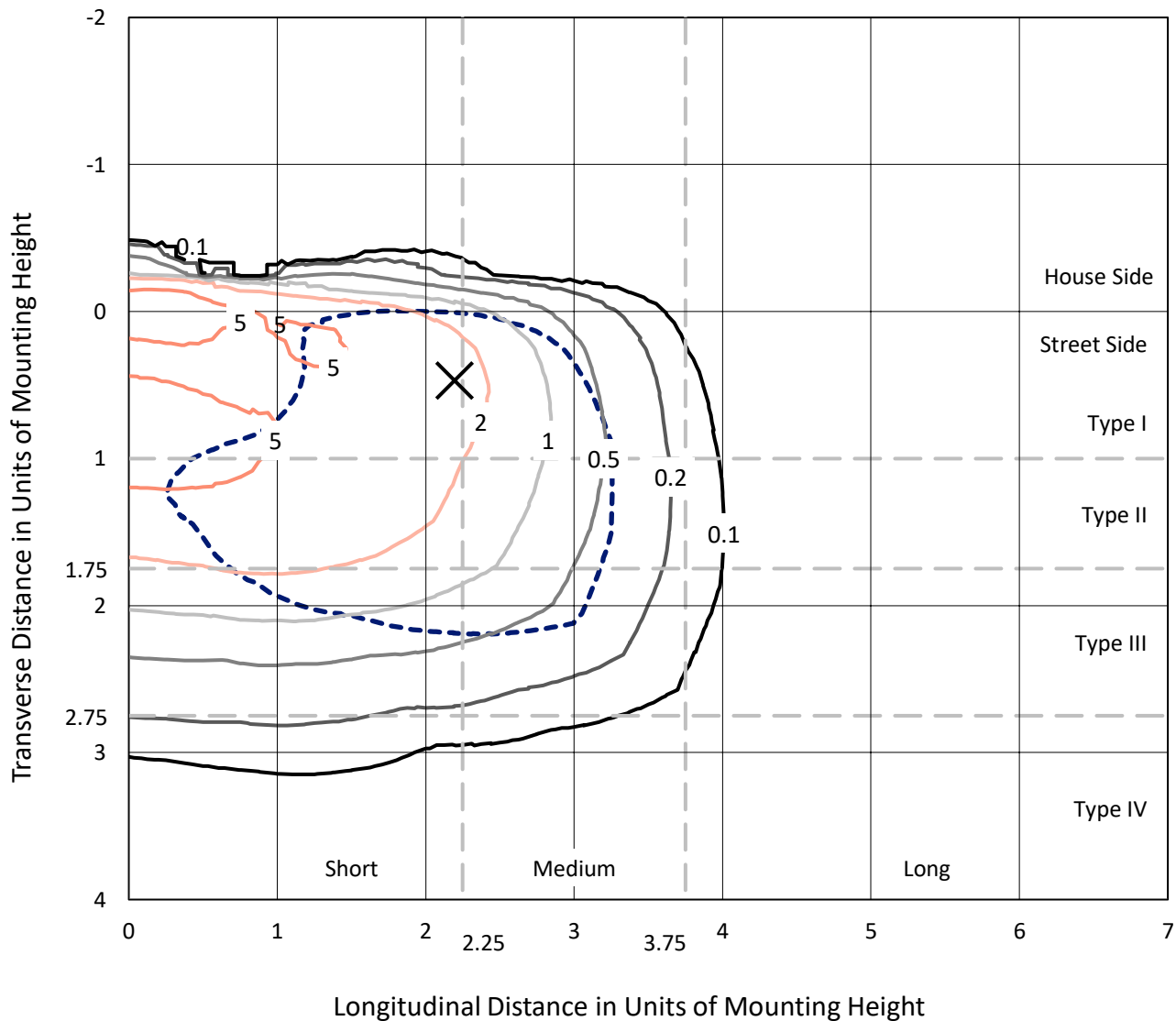
Lumens per Lamp: N/A
Luminaire Lumens: 27783.8 lumens
Efficiency: N/A
Efficacy: 65.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 422.6
Input Voltage (V): 120
Input Current (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

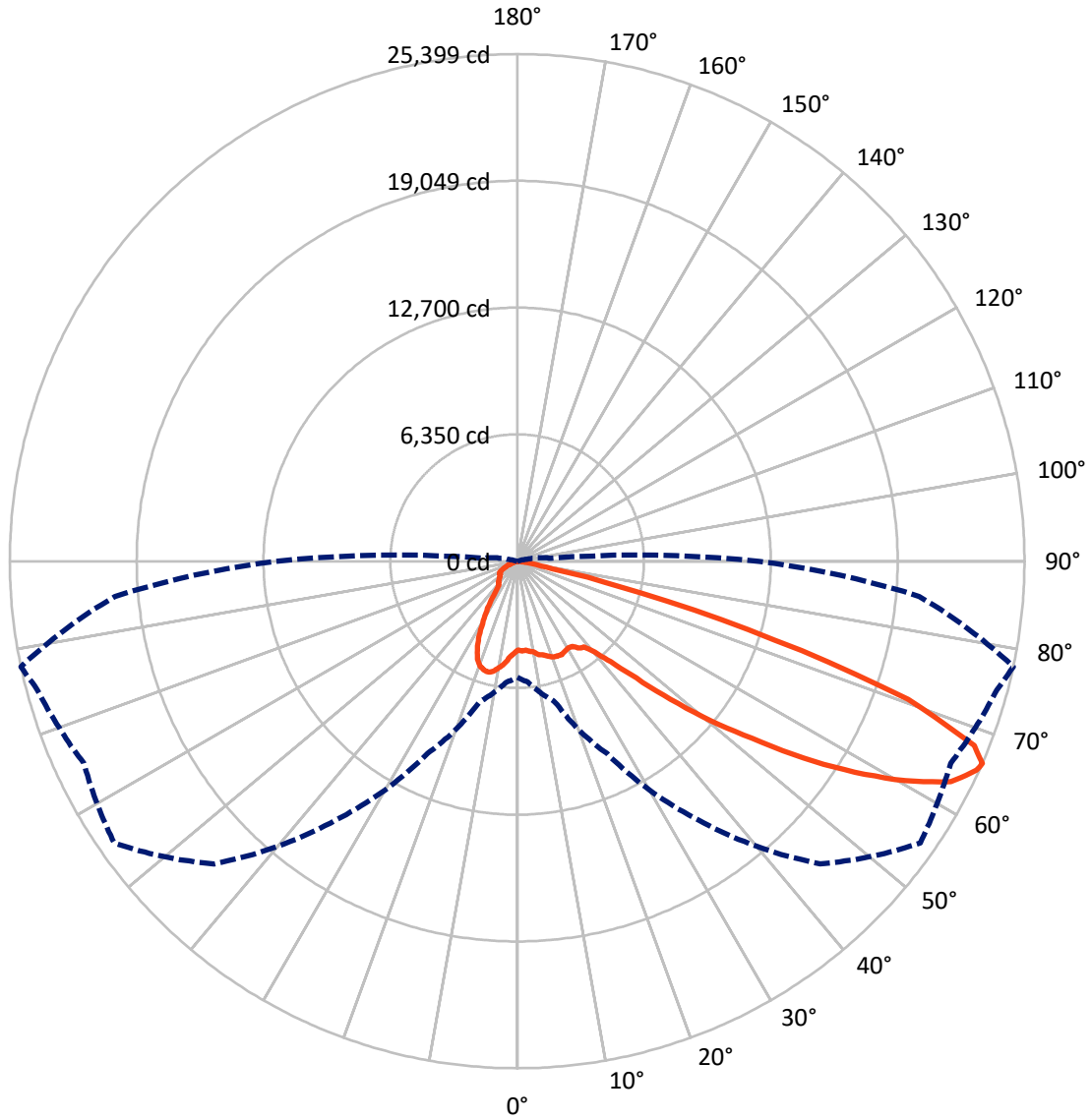
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 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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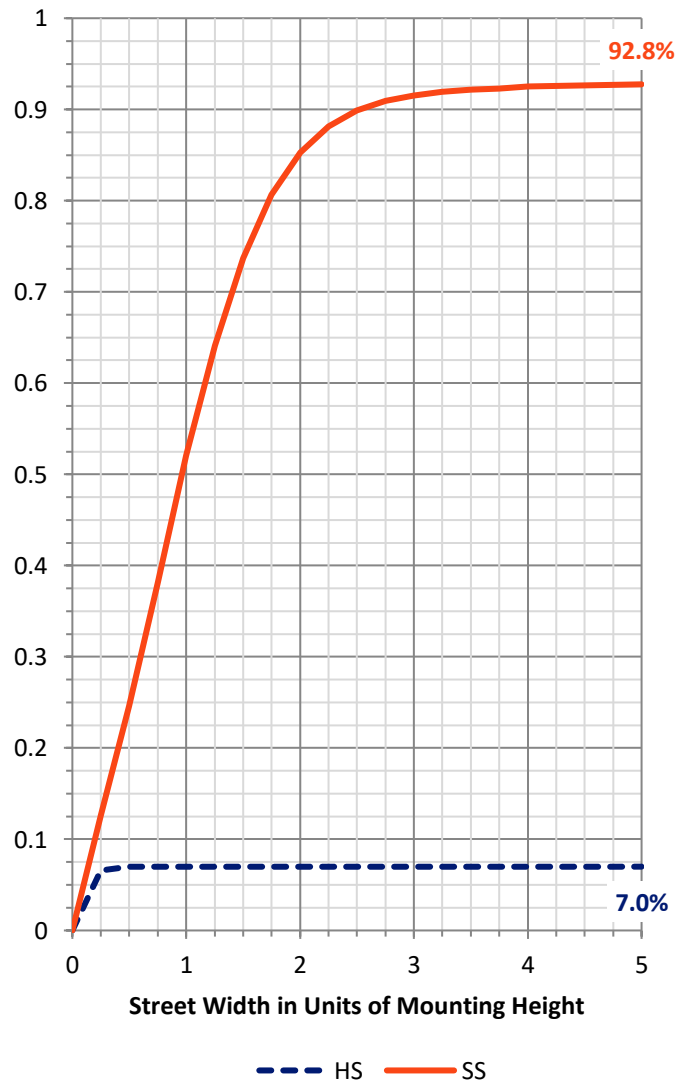
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1953.3	0.0	1953.3
	% Fixture	7.0	0.0	7.0
Street Side	Lumens	25830.5	0.0	25830.5
	% Fixture	93.0	0.0	93.0
Total	Lumens	27783.8	0.0	27783.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	407.1	1.5
10°-20°	919.0	3.3
20°-30°	1313.5	4.7
30°-40°	2248.5	8.1
40°-50°	4058.2	14.6
50°-60°	6940.0	25.0
60°-70°	8542.0	30.7
70°-80°	3229.3	11.6
80°-90°	126.1	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°	27783.8	100.0
0°-180°	27783.8	100.0

Coefficient of Utilization

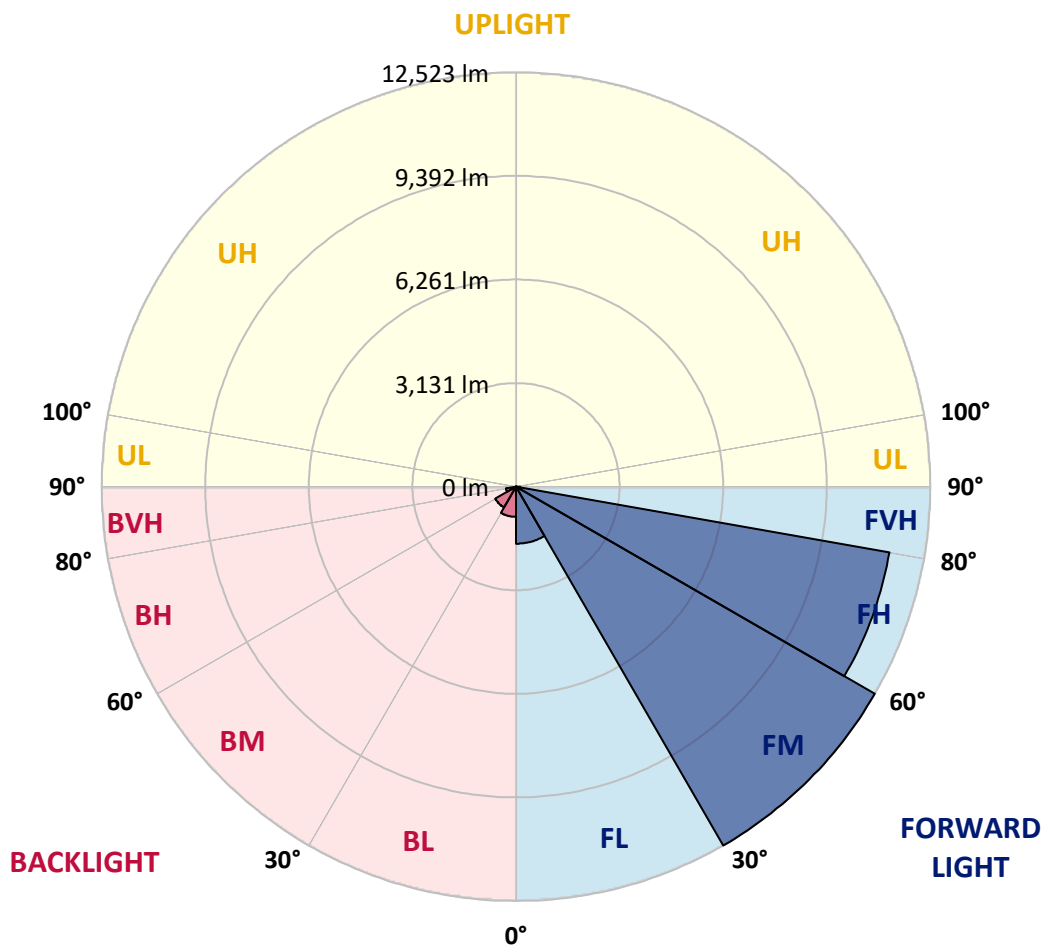


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1724.8	6.2			
FM (30°-60°)	12522.7	45.1			
FH (60°-80°)	11461.8	41.3			G4/12000
FVH (80°-90°)	121.1	0.4			G2/225
BL (0°-30°)	914.8	3.3	B2/1000		
BM (30°-60°)	724.0	2.6	B1/1000		
BH (60°-80°)	309.5	1.1	B1/500		G1/500
BVH (80°-90°)	5.1	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°	4450.1	4450.1	4450.1	4450.1	4450.1	4450.1	4450.1	4450.1	4450.1	4450.1	4450.1
2.5°	4093.2	4055.4	4093.2	4147.8	4177.2	4202.4	4290.5	4366.1	4445.9	4500.4	4483.6
5°	3795.1	3866.5	3874.9	3891.7	3937.9	4089.0	4139.4	4269.5	4466.9	4483.6	4559.2
7.5°	3560.1	3539.1	3593.6	3702.8	3820.3	3908.5	4055.4	4282.1	4487.8	4559.2	4706.2
10°	3220.0	3262.0	3320.8	3429.9	3572.6	3791.0	4051.2	4303.1	4597.0	4622.2	4895.1
12.5°	3035.3	2993.3	3085.7	3199.0	3442.5	3644.0	3963.1	4265.3	4664.2	4802.7	5117.6
15°	2884.1	2905.1	2993.3	3068.9	3270.4	3526.5	3900.1	4357.7	4777.5	4874.1	5352.7
17.5°	2821.2	2808.6	2875.7	2951.3	3199.0	3488.7	3874.9	4361.9	4878.3	5004.2	5512.2
20°	2850.6	2875.7	2854.8	2926.1	3081.5	3375.3	3912.7	4441.7	4953.8	5126.0	5684.3
22.5°	3312.4	3278.8	3110.8	2976.5	2984.9	3329.2	3883.3	4492.0	5021.0	5159.6	5801.9
25°	4517.2	4336.7	3921.1	3404.7	3064.7	3203.2	3849.7	4475.3	5008.4	5180.5	5873.2
27.5°	5730.5	5575.2	5168.0	4366.1	3387.9	3152.8	3732.2	4487.8	4945.4	5105.0	5755.7
30°	7011.0	7094.9	6490.4	5537.4	4236.0	3429.9	3656.6	4420.7	4903.5	5037.8	5780.9
32.5°	8325.0	8291.4	7926.2	6893.4	5449.2	4042.8	3778.4	4487.8	4958.0	5088.2	5927.8
35°	9353.5	9236.0	8866.5	7934.5	6452.6	4966.4	4198.2	4806.9	5197.3	5352.7	6137.7
37.5°	9861.5	9911.9	9697.8	8887.5	7552.5	5822.9	4722.9	4806.9	5272.9	5453.4	6477.8
40°	10256.1	10407.3	10327.5	10067.2	8644.0	6788.4	5302.3	5105.0	5654.9	5995.0	7115.9
42.5°	10730.5	10659.2	11129.4	10890.1	10071.4	8005.9	6318.3	5814.5	6557.5	6885.0	8073.1
45°	10982.4	11255.3	11612.1	11918.6	11393.8	9525.7	7644.9	7069.7	7938.7	8354.4	9496.3
47.5°	11628.9	11738.1	12317.4	12703.7	12468.6	11263.7	9660.0	8904.3	9676.8	10331.7	11125.2
50°	12006.8	11859.8	12670.1	13257.8	13392.2	12703.7	11465.2	10877.5	11742.3	12577.7	12649.1
52.5°	11675.1	12094.9	12905.2	13958.9	14332.6	13988.3	13585.3	13329.2	13937.9	14710.4	14366.2
55°	10512.2	10797.7	12770.8	14727.2	15932.1	15772.5	16146.2	15978.2	16591.2	17409.8	16372.9
57.5°	9576.0	9932.9	11666.7	15126.0	17422.4	17892.6	18362.8	18257.9	18996.7	19941.3	18073.1
60°	8992.5	9198.2	10869.1	15025.3	18304.0	20084.1	21146.2	20407.3	21612.2	22334.3	19404.0
62.5°	7980.7	8110.9	9706.2	13690.2	18568.5	21633.2	23434.2	22430.8	23476.2	24357.8	20361.1
65°	6398.0	6750.7	8068.9	11691.9	16822.1	21918.7	24861.6	23681.9	24693.7	25273.0	20650.8
66°	5822.9	6079.0	7288.0	10634.0	15827.1	21444.3	24622.3	23942.2	24870.0	25399.0	20205.8
67.5°	4832.1	5054.6	6016.0	9126.8	13791.0	20398.9	24790.2	23765.9	25004.3	24681.1	19609.7
70°	3199.0	3341.7	4114.2	6171.3	9605.4	16687.7	22993.4	22388.9	21981.6	20768.4	15331.7
72.5°	1494.5	1700.3	2569.3	3740.6	5633.9	11675.1	18749.0	17938.8	15415.7	13476.1	9672.6
75°	675.9	768.3	1410.6	2145.3	2527.3	6049.6	12094.9	10923.6	7674.3	6372.8	4236.0
77.5°	365.2	415.6	688.5	1020.2	919.4	2120.1	5986.6	4979.0	2418.1	1771.6	1230.1
80°	281.3	331.7	575.1	583.5	340.1	550.0	2225.0	1540.7	604.5	457.6	293.9
82.5°	146.9	209.9	453.4	377.8	172.1	222.5	688.5	428.2	188.9	151.1	125.9
85°	58.8	92.4	256.1	251.9	100.8	75.6	193.1	130.1	75.6	63.0	58.8
87.5°	4.2	4.2	138.5	96.6	63.0	21.0	29.4	29.4	37.8	33.6	42.0
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°	4450.1	4450.1	4450.1	4450.1	4450.1	4450.1	4450.1	4450.1	4450.1	4450.1	4450.1
2.5°	4559.2	4609.6	4618.0	4756.5	4785.9	4756.5	4832.1	4819.5	4853.1	4827.9	4781.7
5°	4664.2	4735.5	4874.1	4979.0	4979.0	4895.1	4827.9	4739.7	4609.6	4576.0	4550.8
7.5°	4844.7	5071.4	5197.3	5130.2	4995.8	4681.0	4244.4	3925.3	3656.6	3555.9	3509.7
10°	5163.8	5289.7	5436.6	5163.8	4605.4	3937.9	3203.2	2720.4	2342.6	2258.6	2195.6
12.5°	5369.5	5571.0	5654.9	4979.0	3883.3	2888.3	2090.7	1544.9	1280.4	1078.9	1045.3
15°	5638.1	5869.0	5696.9	4479.5	3060.5	1893.4	1083.1	675.9	550.0	516.4	516.4
17.5°	5822.9	6074.8	5524.8	3858.1	2170.5	1007.6	537.4	466.0	457.6	461.8	453.4
20°	6146.1	6297.3	5264.5	3136.0	1297.2	516.4	432.4	415.6	407.2	419.8	411.4
22.5°	6267.9	6406.4	4840.5	2271.2	583.5	344.3	323.3	310.7	319.1	314.9	310.7
25°	6259.5	6330.8	4143.6	1301.4	172.1	134.3	121.7	121.7	113.4	117.5	113.4
27.5°	6322.4	6146.1	3362.7	386.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	6356.0	5848.1	2393.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	6372.8	5692.7	1540.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	6503.0	5382.1	659.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	6591.1	4983.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	6956.4	4857.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	7430.8	4622.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	8089.9	4273.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	8963.1	4068.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	9613.8	3744.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	10440.9	3551.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	11423.2	3560.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	12317.4	3501.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	12775.0	2993.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	12678.5	2422.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	12342.6	1901.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	12111.7	1683.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	11410.6	1347.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	9080.6	923.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	5776.7	566.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	2661.6	260.3	8.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	835.4	159.5	33.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	218.3	100.8	33.6	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	113.4	71.4	29.4	12.6	8.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	71.4	29.4	12.6	8.4	8.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	63.0	16.8	8.4	8.4	4.2	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)