

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: P482986

Luminaire Tested: **IFLD-L-SA8D-827-U-T3R-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482986
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8D-827-U-T3R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R
distribution lens with House Side Shield
Light Source: (128) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

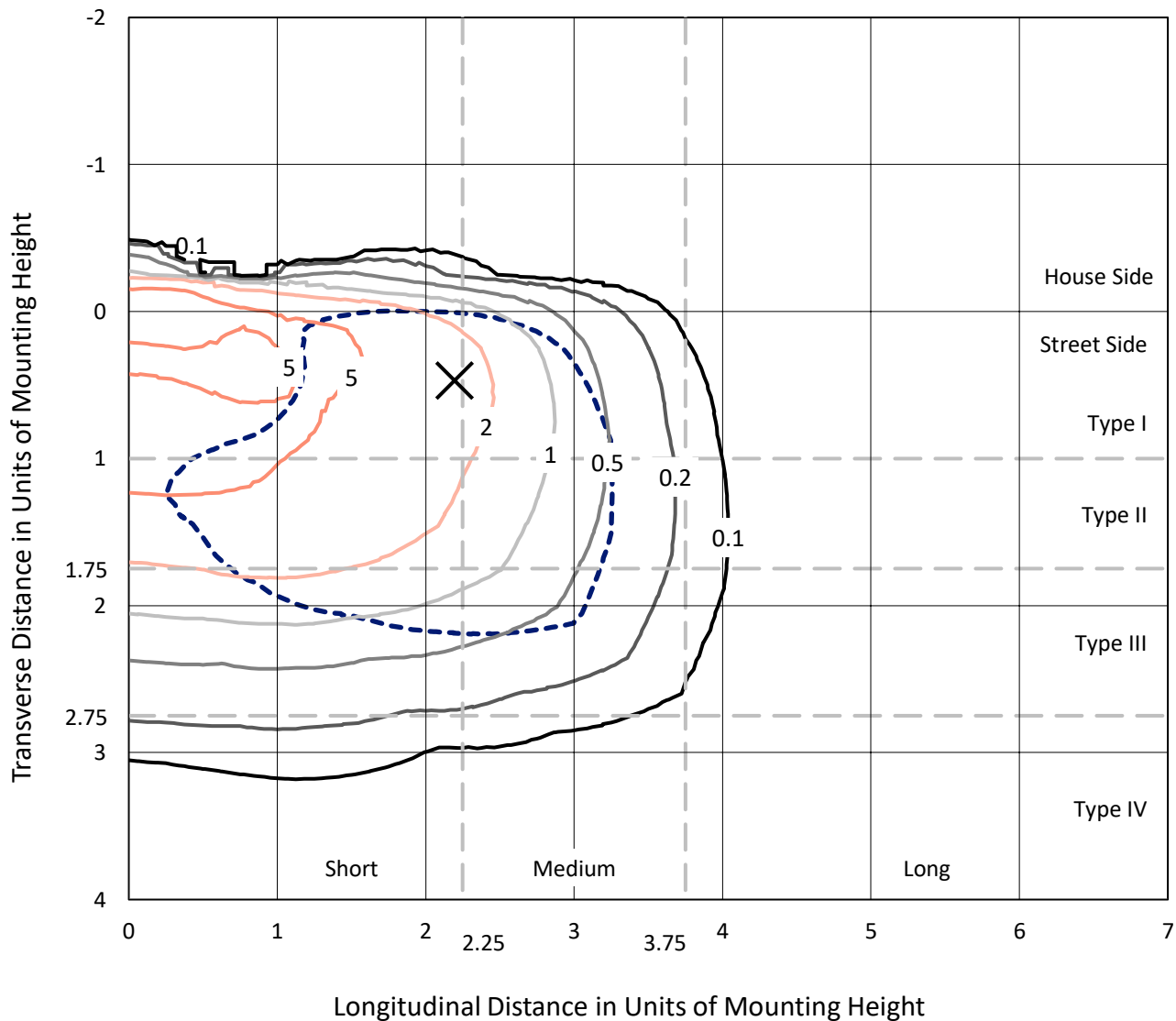
Lumens per Lamp: N/A
Luminaire Lumens: 29375.3 lumens
Efficiency: N/A
Efficacy: 60.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G5

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

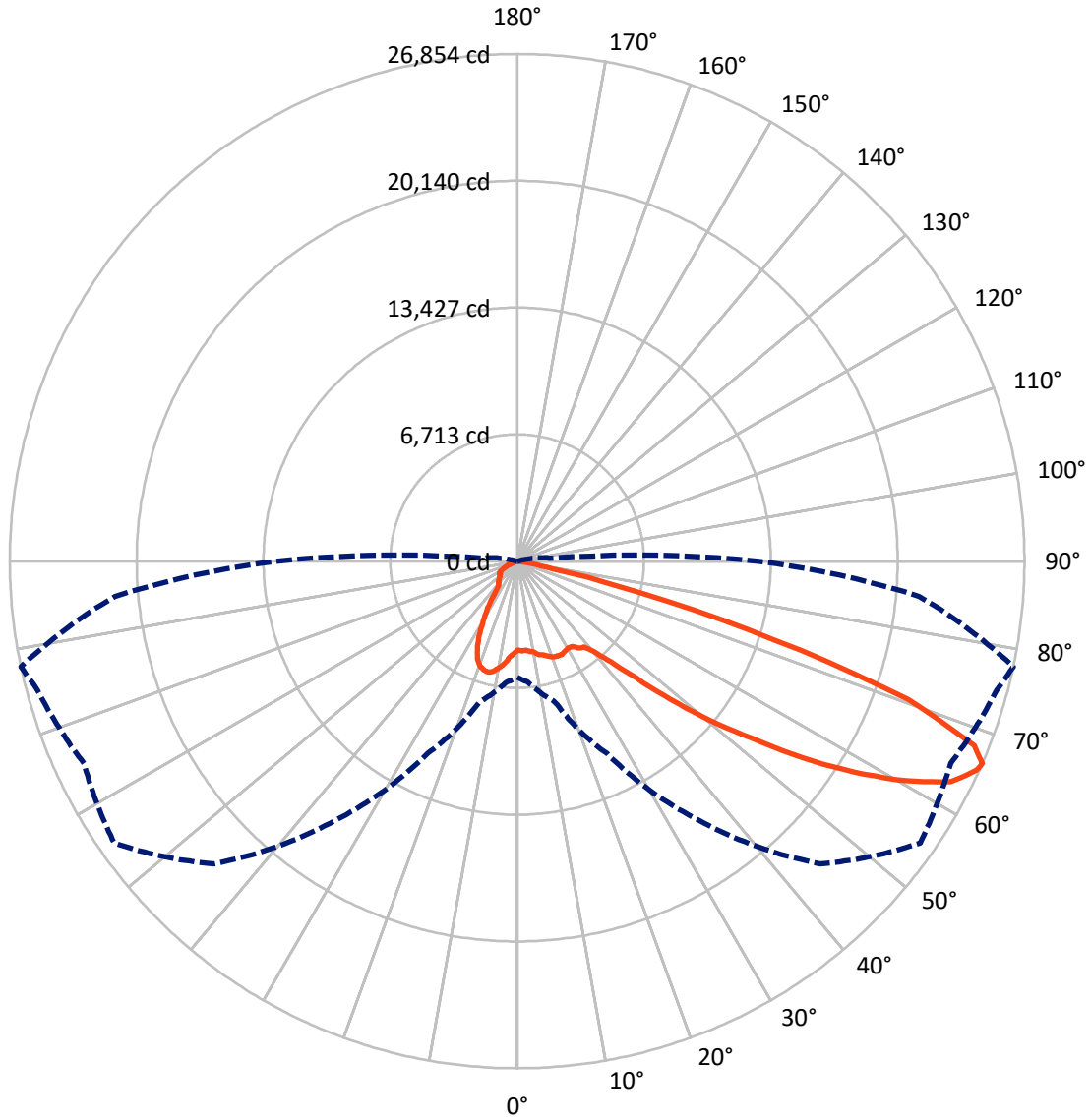
✕ Max cd
 - - - 1/2 Max cd



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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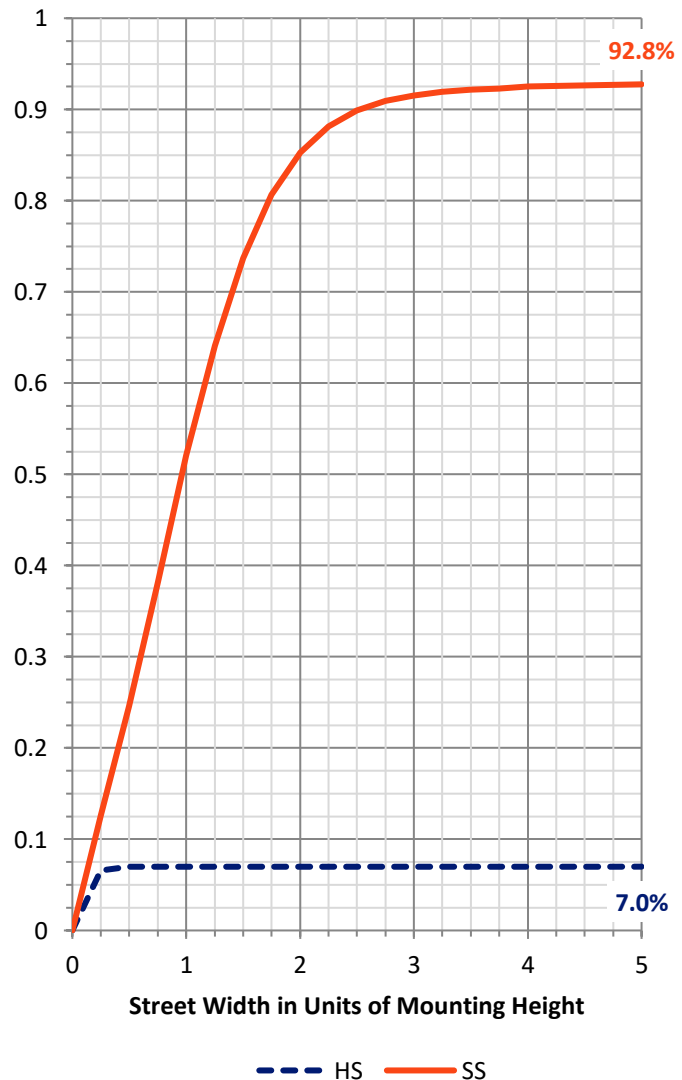
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2065.2	0.0	2065.2
	% Fixture	7.0	0.0	7.0
Street Side	Lumens	27310.1	0.0	27310.1
	% Fixture	93.0	0.0	93.0
Total	Lumens	29375.3	0.0	29375.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	430.4	1.5
10°-20°	971.6	3.3
20°-30°	1388.8	4.7
30°-40°	2377.3	8.1
40°-50°	4290.7	14.6
50°-60°	7337.6	25.0
60°-70°	9031.3	30.7
70°-80°	3414.3	11.6
80°-90°	133.4	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°	29375.3	100.0
0°-180°	29375.3	100.0

Coefficient of Utilization

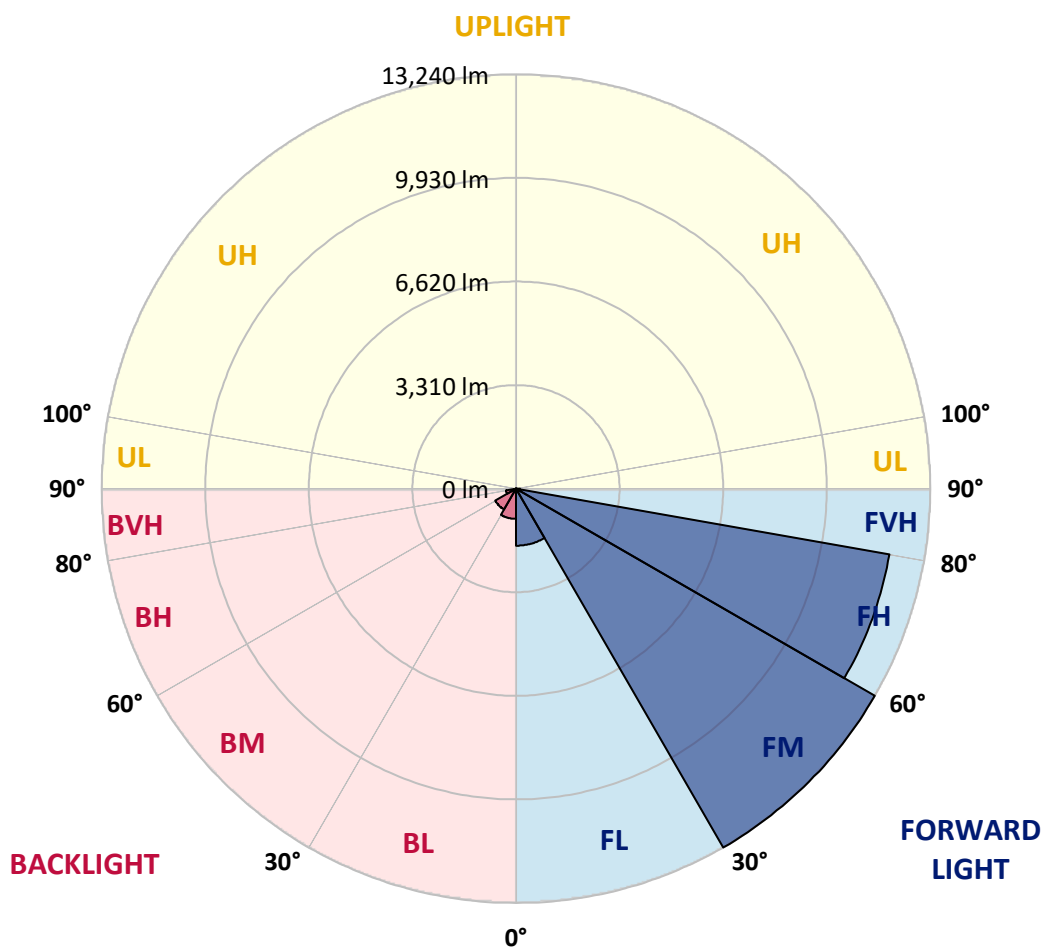


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1823.6	6.2			
FM (30°-60°)	13240.1	45.1			
FH (60°-80°)	12118.4	41.3			G5
FVH (80°-90°)	128.0	0.4			G2/225
BL (0°-30°)	967.2	3.3	B2/1000		
BM (30°-60°)	765.4	2.6	B1/1000		
BH (60°-80°)	327.2	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°	4705.0	4705.0	4705.0	4705.0	4705.0	4705.0	4705.0	4705.0	4705.0	4705.0	4705.0
2.5°	4327.7	4287.7	4327.7	4385.4	4416.5	4443.1	4536.3	4616.2	4700.5	4758.2	4740.5
5°	4012.5	4088.0	4096.9	4114.6	4163.5	4323.2	4376.5	4514.1	4722.7	4740.5	4820.4
7.5°	3764.0	3741.8	3799.5	3914.9	4039.2	4132.4	4287.7	4527.4	4744.9	4820.4	4975.7
10°	3404.4	3448.8	3511.0	3626.4	3777.3	4008.1	4283.3	4549.6	4860.3	4887.0	5175.5
12.5°	3209.1	3164.8	3262.4	3382.3	3639.7	3852.8	4190.1	4509.7	4931.3	5077.8	5410.7
15°	3049.4	3071.5	3164.8	3244.7	3457.7	3728.5	4123.5	4607.3	5051.2	5153.3	5659.3
17.5°	2982.8	2969.5	3040.5	3120.4	3382.3	3688.5	4096.9	4611.8	5157.7	5290.9	5828.0
20°	3013.8	3040.5	3018.3	3093.7	3258.0	3568.7	4136.8	4696.1	5237.6	5419.6	6009.9
22.5°	3502.1	3466.6	3289.0	3147.0	3155.9	3519.9	4105.8	4749.4	5308.6	5455.1	6134.2
25°	4776.0	4585.1	4145.7	3599.7	3240.2	3386.7	4070.2	4731.6	5295.3	5477.3	6209.7
27.5°	6058.8	5894.5	5464.0	4616.2	3582.0	3333.4	3946.0	4744.9	5228.7	5397.4	6085.4
30°	7412.6	7501.3	6862.2	5854.6	4478.6	3626.4	3866.1	4673.9	5184.3	5326.4	6112.0
32.5°	8801.9	8766.3	8380.2	7288.3	5761.4	4274.4	3994.8	4744.9	5242.1	5379.6	6267.4
35°	9889.3	9765.0	9374.4	8389.1	6822.2	5250.9	4438.7	5082.3	5495.1	5659.3	6489.3
37.5°	10426.4	10479.7	10253.3	9396.6	7985.1	6156.4	4993.5	5082.3	5574.9	5765.8	6848.8
40°	10843.6	11003.4	10919.1	10643.9	9139.2	7177.3	5606.0	5397.4	5978.9	6338.4	7523.5
42.5°	11345.2	11269.7	11766.9	11513.9	10648.3	8464.5	6680.2	6147.5	6933.2	7279.4	8535.5
45°	11611.5	11900.0	12277.3	12601.3	12046.5	10071.3	8082.8	7474.7	8393.5	8832.9	10040.2
47.5°	12295.1	12410.5	13023.0	13431.4	13182.8	11908.9	10213.3	9414.4	10231.1	10923.5	11762.4
50°	12694.6	12539.2	13395.9	14017.3	14159.3	13431.4	12122.0	11500.6	12414.9	13298.2	13373.7
52.5°	12343.9	12787.8	13644.4	14758.5	15153.6	14789.6	14363.5	14092.7	14736.3	15553.0	15189.1
55°	11114.4	11416.2	13502.4	15570.8	16844.7	16676.0	17071.1	16893.5	17541.6	18407.1	17310.8
57.5°	10124.6	10501.9	12335.0	15992.5	18420.4	18917.5	19414.7	19303.7	20084.9	21083.6	19108.4
60°	9507.6	9725.1	11491.7	15885.9	19352.5	21234.5	22357.5	21576.3	22850.2	23613.6	20515.5
62.5°	8437.9	8575.5	10262.2	14474.5	19632.2	22872.4	24776.6	23715.7	24821.0	25753.1	21527.5
65°	6764.5	7137.4	8531.1	12361.7	17785.7	23174.2	26285.7	25038.4	26108.2	26720.7	21833.7
66°	6156.4	6427.2	7705.5	11243.1	16733.7	22672.6	26032.7	25313.6	26294.6	26853.9	21363.2
67.5°	5108.9	5344.1	6360.6	9649.6	14581.0	21567.4	26210.3	25127.2	26436.6	26094.8	20733.0
70°	3382.3	3533.2	4349.9	6524.8	10155.6	17643.6	24310.5	23671.3	23240.8	21958.0	16210.0
72.5°	1580.2	1797.7	2716.5	3954.8	5956.7	12343.9	19823.0	18966.4	16298.7	14248.1	10226.7
75°	714.6	812.3	1491.4	2268.2	2672.1	6396.1	12787.8	11549.4	8113.9	6737.9	4478.6
77.5°	386.2	439.4	727.9	1078.6	972.1	2241.5	6329.5	5264.2	2556.7	1873.1	1300.5
80°	297.4	350.7	608.1	617.0	359.5	581.5	2352.5	1629.0	639.2	483.8	310.7
82.5°	155.4	221.9	479.4	399.5	182.0	235.2	727.9	452.7	199.7	159.8	133.2
85°	62.1	97.7	270.8	266.3	106.5	79.9	204.2	137.6	79.9	66.6	62.1
87.5°	4.4	4.4	146.5	102.1	66.6	22.2	31.1	31.1	39.9	35.5	44.4
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°	4705.0	4705.0	4705.0	4705.0	4705.0	4705.0	4705.0	4705.0	4705.0	4705.0	4705.0
2.5°	4820.4	4873.6	4882.5	5029.0	5060.1	5029.0	5108.9	5095.6	5131.1	5104.5	5055.6
5°	4931.3	5006.8	5153.3	5264.2	5264.2	5175.5	5104.5	5011.2	4873.6	4838.1	4811.5
7.5°	5122.2	5361.9	5495.1	5424.0	5282.0	4949.1	4487.5	4150.1	3866.1	3759.5	3710.7
10°	5459.5	5592.7	5748.1	5459.5	4869.2	4163.5	3386.7	2876.2	2476.8	2388.0	2321.4
12.5°	5677.0	5890.1	5978.9	5264.2	4105.8	3053.8	2210.4	1633.4	1353.8	1140.7	1105.2
15°	5961.1	6205.2	6023.3	4736.0	3235.8	2001.8	1145.2	714.6	581.5	546.0	546.0
17.5°	6156.4	6422.7	5841.3	4079.1	2294.8	1065.3	568.1	492.7	483.8	488.3	479.4
20°	6498.2	6658.0	5566.1	3315.7	1371.5	546.0	457.2	439.4	430.5	443.9	435.0
22.5°	6626.9	6773.4	5117.8	2401.3	617.0	364.0	341.8	328.5	337.3	332.9	328.5
25°	6618.0	6693.5	4381.0	1376.0	182.0	142.0	128.7	128.7	119.8	124.3	119.8
27.5°	6684.6	6498.2	3555.4	408.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	6720.1	6183.0	2530.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	6737.9	6018.8	1629.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	6875.5	5690.4	696.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	6968.7	5268.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	7354.8	5135.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	7856.4	4887.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	8553.3	4518.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	9476.5	4301.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	10164.5	3959.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	11038.9	3755.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	12077.6	3764.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	13023.0	3701.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	13506.8	3164.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	13404.7	2561.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	13049.6	2010.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	12805.5	1779.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	12064.3	1424.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	9600.8	976.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	6107.6	599.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	2814.1	275.2	8.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	883.3	168.7	35.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	230.8	106.5	35.5	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	119.8	75.5	31.1	13.3	8.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	75.5	31.1	13.3	8.9	8.9	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	66.6	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)