

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: P482737

Luminaire Tested: **IFLD-S-SA6D-727-U-T3R-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482737
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-727-U-T3R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens with House Side Shield
Light Source: (96) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

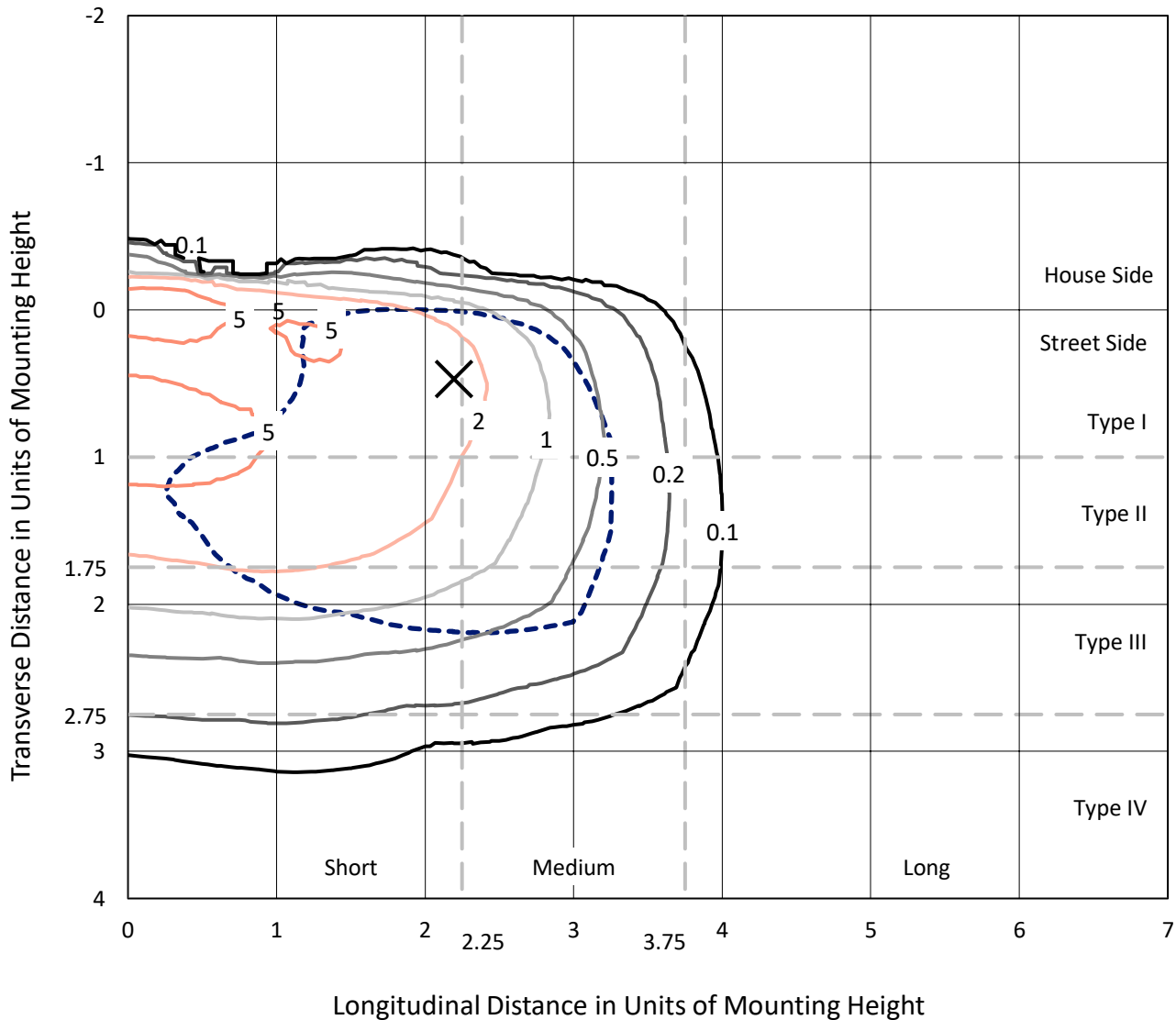
Lumens per Lamp: N/A
Luminaire Lumens: 27409.1 lumens
Efficiency: N/A
Efficacy: 74.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 368.2
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

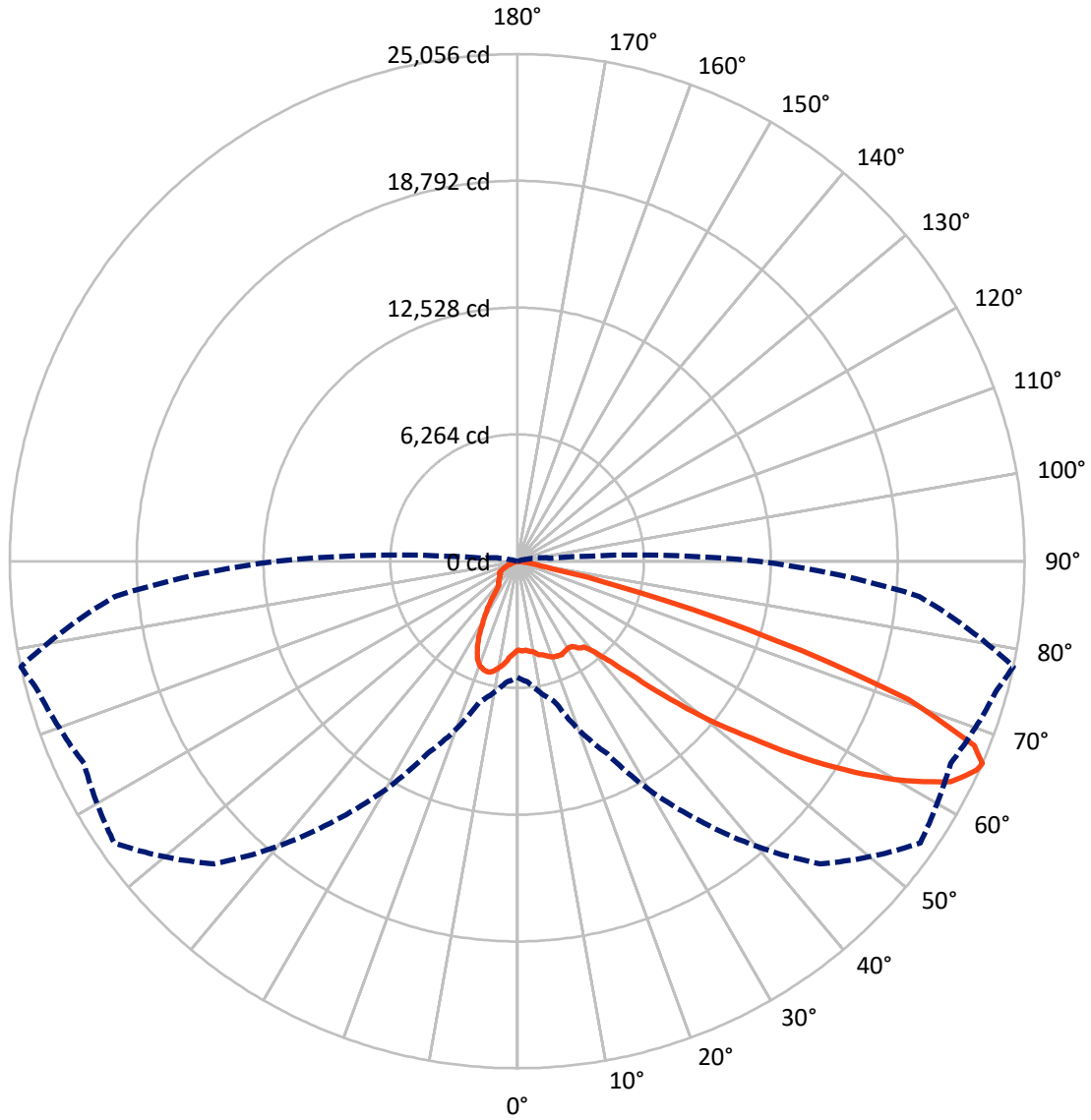
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 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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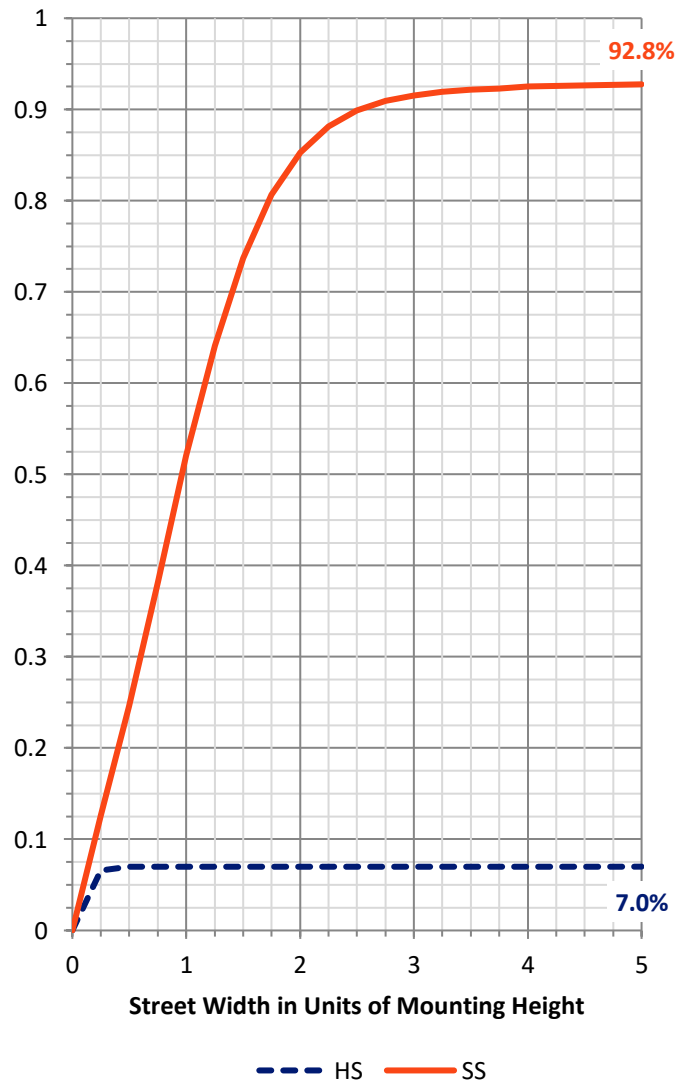
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1927.0	0.0	1927.0
	% Fixture	7.0	0.0	7.0
Street Side	Lumens	25482.2	0.0	25482.2
	% Fixture	93.0	0.0	93.0
Total	Lumens	27409.1	0.0	27409.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	401.6	1.5
10°-20°	906.6	3.3
20°-30°	1295.8	4.7
30°-40°	2218.1	8.1
40°-50°	4003.5	14.6
50°-60°	6846.5	25.0
60°-70°	8426.8	30.7
70°-80°	3185.8	11.6
80°-90°	124.4	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°	27409.1	100.0
0°-180°	27409.1	100.0

Coefficient of Utilization

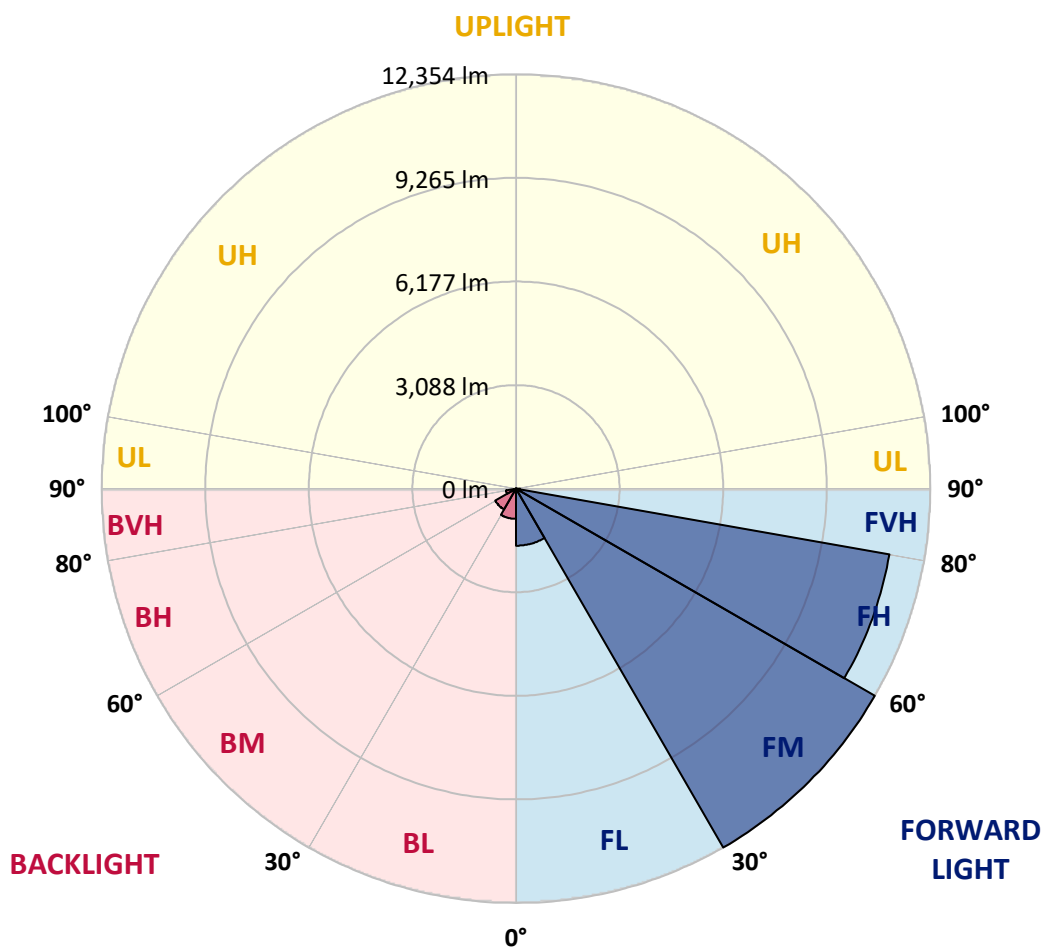


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1701.6	6.2			
FM (30°-60°)	12353.9	45.1			
FH (60°-80°)	11307.3	41.3			G4/12000
FVH (80°-90°)	119.4	0.4			G2/225
BL (0°-30°)	902.5	3.3	B2/1000		
BM (30°-60°)	714.2	2.6	B1/1000		
BH (60°-80°)	305.3	1.1	B1/500		G1/500
BVH (80°-90°)	5.0	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°	4390.1	4390.1	4390.1	4390.1	4390.1	4390.1	4390.1	4390.1	4390.1	4390.1	4390.1
2.5°	4038.0	4000.7	4038.0	4091.9	4120.9	4145.7	4232.7	4307.2	4385.9	4439.8	4423.2
5°	3744.0	3814.4	3822.7	3839.2	3884.8	4033.9	4083.6	4212.0	4406.6	4423.2	4497.7
7.5°	3512.0	3491.3	3545.2	3652.9	3768.8	3855.8	4000.7	4224.4	4427.3	4497.7	4642.7
10°	3176.6	3218.0	3276.0	3383.7	3524.5	3739.8	3996.6	4245.1	4535.0	4559.9	4829.1
12.5°	2994.3	2952.9	3044.0	3155.9	3396.1	3594.9	3909.6	4207.8	4601.3	4737.9	5048.6
15°	2845.3	2866.0	2952.9	3027.5	3226.3	3478.9	3847.5	4298.9	4713.1	4808.4	5280.5
17.5°	2783.1	2770.7	2837.0	2911.5	3155.9	3441.6	3822.7	4303.1	4812.5	4936.7	5437.9
20°	2812.1	2837.0	2816.3	2886.7	3039.9	3329.8	3859.9	4381.8	4887.0	5056.8	5607.7
22.5°	3267.7	3234.6	3068.9	2936.4	2944.7	3284.3	3830.9	4431.5	4953.3	5090.0	5723.6
25°	4456.3	4278.2	3868.2	3358.8	3023.3	3160.0	3797.8	4414.9	4940.9	5110.7	5794.0
27.5°	5653.2	5500.0	5098.3	4307.2	3342.2	3110.3	3681.8	4427.3	4878.8	5036.1	5678.1
30°	6916.4	6999.2	6402.9	5462.7	4178.8	3383.7	3607.3	4361.1	4837.3	4969.9	5702.9
32.5°	8212.7	8179.6	7819.3	6800.4	5375.7	3988.3	3727.4	4427.3	4891.2	5019.6	5847.9
35°	9227.4	9111.4	8747.0	7827.6	6365.6	4899.5	4141.6	4742.1	5127.3	5280.5	6055.0
37.5°	9728.5	9778.2	9567.0	8767.7	7450.7	5744.3	4659.3	4742.1	5201.8	5379.9	6390.4
40°	10117.8	10266.9	10188.2	9931.5	8527.5	6696.9	5230.8	5036.1	5578.7	5914.1	7019.9
42.5°	10585.8	10515.4	10979.3	10743.2	9935.6	7898.0	6233.0	5736.1	6469.1	6792.2	7964.2
45°	10834.3	11103.5	11455.6	11757.9	11240.2	9397.2	7541.8	6974.4	7831.7	8241.7	9368.2
47.5°	11472.1	11579.8	12151.3	12532.4	12300.4	11111.8	9529.7	8784.3	9546.3	10192.4	10975.1
50°	11844.9	11699.9	12499.2	13079.1	13211.6	12532.4	11310.6	10730.8	11583.9	12408.1	12478.5
52.5°	11517.7	11931.8	12731.2	13770.7	14139.3	13799.7	13402.1	13149.5	13750.0	14512.0	14172.4
55°	10370.5	10652.1	12598.6	14528.6	15717.2	15559.8	15928.4	15762.8	16367.5	17175.1	16152.1
57.5°	9446.9	9798.9	11509.4	14922.0	17187.5	17651.3	18115.2	18011.7	18740.6	19672.4	17829.4
60°	8871.2	9074.2	10722.5	14822.6	18057.2	19813.2	20861.0	20132.1	21320.8	22033.1	19142.3
62.5°	7873.1	8001.5	9575.3	13505.6	18318.1	21341.5	23118.2	22128.4	23159.6	24029.3	20086.6
65°	6311.7	6659.6	7960.1	11534.2	16595.2	21623.1	24526.3	23362.5	24360.7	24932.2	20372.3
66°	5744.3	5997.0	7189.8	10490.6	15613.7	21155.1	24290.3	23619.3	24534.6	25056.4	19933.3
67.5°	4766.9	4986.4	5934.9	9003.8	13605.0	20123.8	24455.9	23445.4	24667.1	24348.2	19345.2
70°	3155.9	3296.7	4058.7	6088.1	9475.9	16462.7	22683.3	22086.9	21685.2	20488.3	15125.0
72.5°	1474.4	1677.3	2534.6	3690.1	5558.0	11517.7	18496.2	17696.9	15207.8	13294.4	9542.2
75°	666.8	757.9	1391.6	2116.3	2493.2	5968.0	11931.8	10776.3	7570.8	6286.9	4178.8
77.5°	360.3	410.0	679.2	1006.4	907.0	2091.5	5905.9	4911.9	2385.5	1747.7	1213.5
80°	277.5	327.2	567.4	575.7	335.5	542.5	2195.0	1520.0	596.4	451.4	289.9
82.5°	145.0	207.1	447.3	372.7	169.8	219.5	679.2	422.4	186.4	149.1	124.2
85°	58.0	91.1	252.6	248.5	99.4	74.5	190.5	128.4	74.5	62.1	58.0
87.5°	4.1	4.1	136.7	95.3	62.1	20.7	29.0	29.0	37.3	33.1	41.4
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°	4390.1	4390.1	4390.1	4390.1	4390.1	4390.1	4390.1	4390.1	4390.1	4390.1	4390.1
2.5°	4497.7	4547.4	4555.7	4692.4	4721.4	4692.4	4766.9	4754.5	4787.6	4762.8	4717.2
5°	4601.3	4671.7	4808.4	4911.9	4911.9	4829.1	4762.8	4675.8	4547.4	4514.3	4489.5
7.5°	4779.4	5003.0	5127.3	5061.0	4928.5	4617.8	4187.1	3872.4	3607.3	3507.9	3462.3
10°	5094.1	5218.4	5363.3	5094.1	4543.3	3884.8	3160.0	2683.7	2311.0	2228.2	2166.0
12.5°	5297.1	5495.9	5578.7	4911.9	3830.9	2849.4	2062.5	1524.1	1263.2	1064.4	1031.2
15°	5562.1	5789.9	5620.1	4419.0	3019.2	1867.8	1068.5	666.8	542.5	509.4	509.4
17.5°	5744.3	5992.8	5450.3	3806.1	2141.2	994.0	530.1	459.7	451.4	455.6	447.3
20°	6063.2	6212.3	5193.5	3093.7	1279.7	509.4	426.6	410.0	401.7	414.2	405.9
22.5°	6183.4	6320.0	4775.2	2240.6	575.7	339.6	318.9	306.5	314.8	310.6	306.5
25°	6175.1	6245.5	4087.7	1283.9	169.8	132.5	120.1	120.1	111.8	116.0	111.8
27.5°	6237.2	6063.2	3317.4	381.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	6270.3	5769.2	2360.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	6286.9	5616.0	1520.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	6415.3	5309.5	650.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	6502.3	4916.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	6862.6	4791.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	7330.6	4559.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	7980.8	4216.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	8842.2	4013.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	9484.2	3694.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	10300.1	3503.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	11269.2	3512.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	12151.3	3454.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	12602.8	2952.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	12507.5	2389.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	12176.2	1876.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	11948.4	1660.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	11256.8	1329.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	8958.2	911.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	5698.8	559.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	2625.7	256.8	8.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	824.2	157.4	33.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	215.4	99.4	33.1	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	111.8	70.4	29.0	12.4	8.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	70.4	29.0	12.4	8.3	8.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	62.1	16.6	8.3	8.3	4.1	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)