

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: P482858

Luminaire Tested: **IFLD-M-SA4C-740-U-T3R-HSS**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P482858  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4C-740-U-T3R-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens with House Side Shield  
Light Source: (64) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

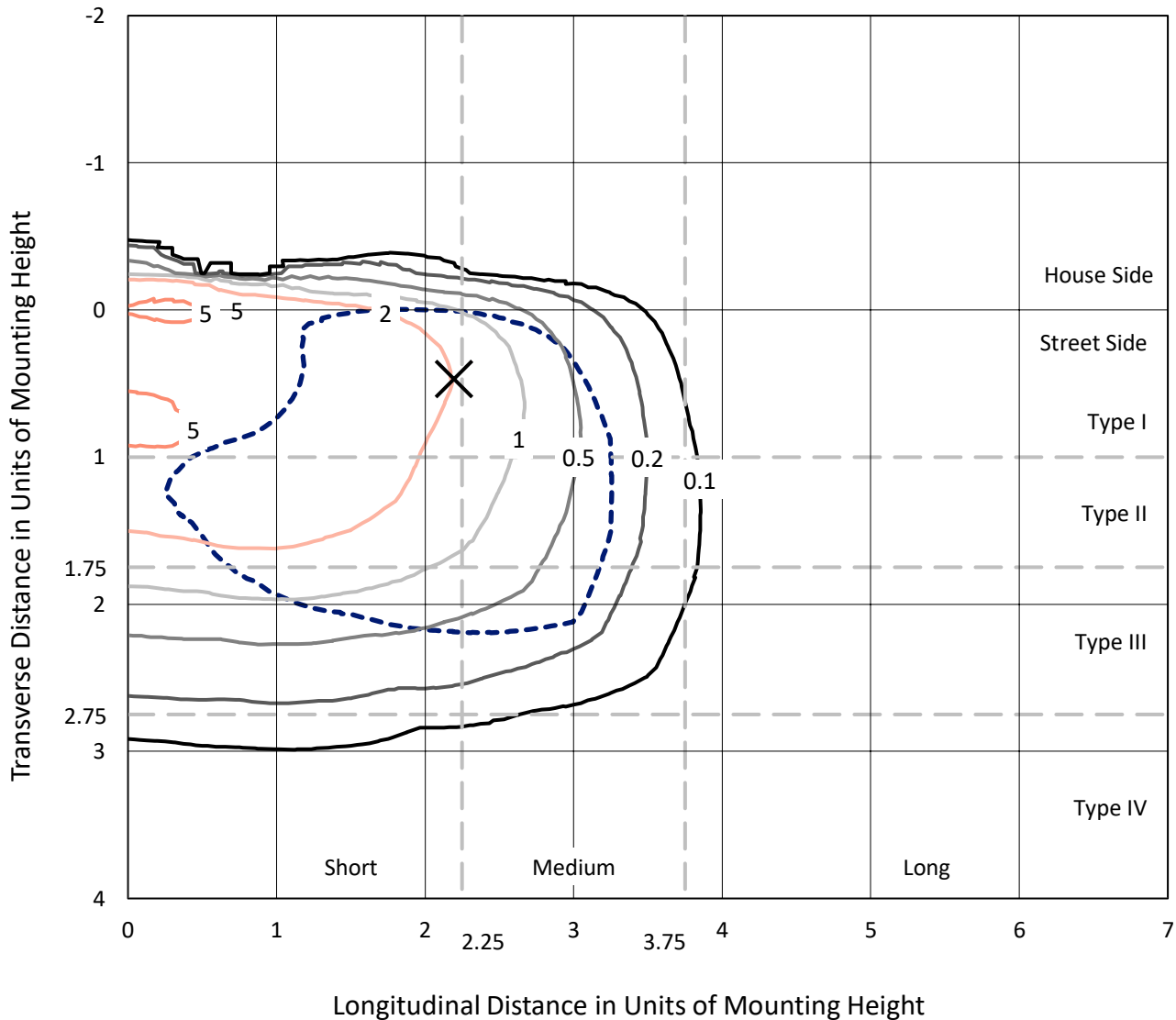
Lumens per Lamp: N/A  
Luminaire Lumens: 20380.4 lumens  
Efficiency: N/A  
Efficacy: 93.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4

Input Watts (W): 218.1  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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

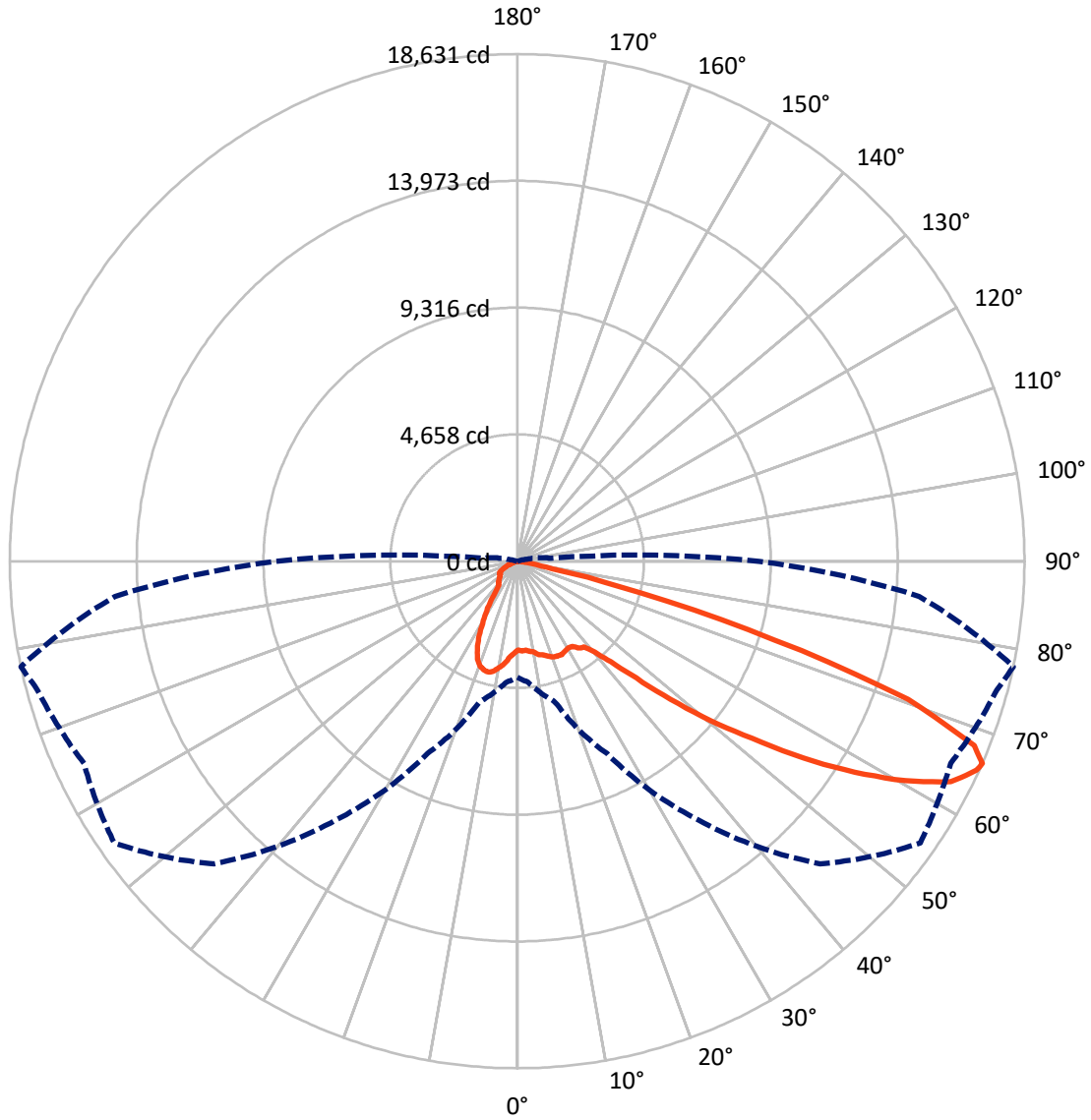
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 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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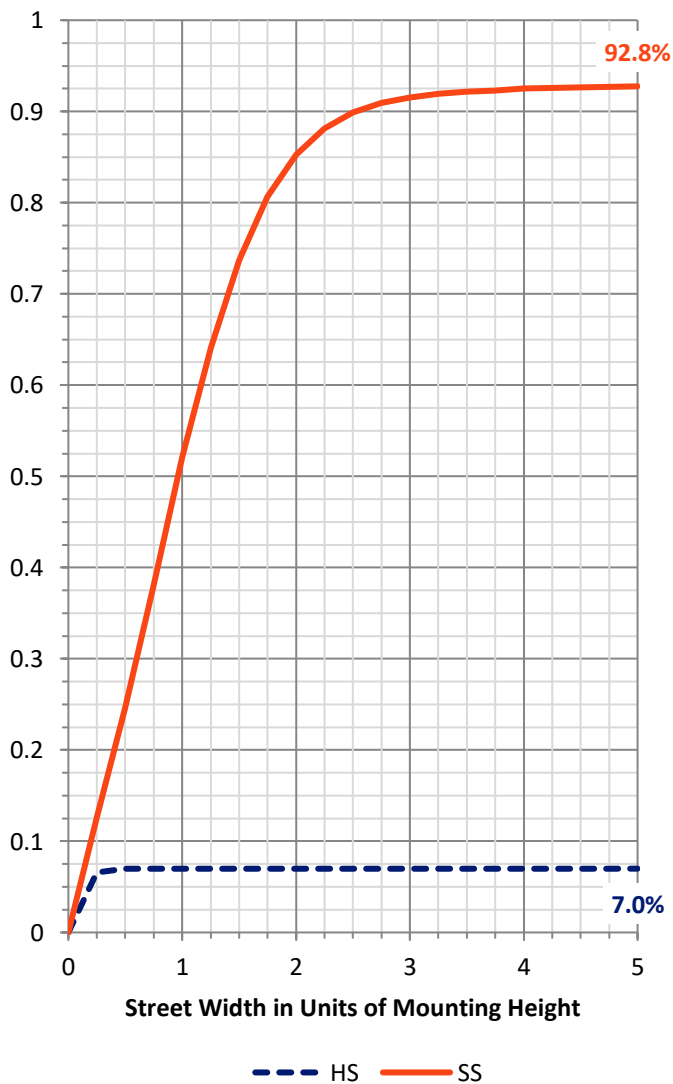
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1432.8	0.0	1432.8
	% Fixture	7.0	0.0	7.0
<b>Street Side</b>	Lumens	18947.6	0.0	18947.6
	% Fixture	93.0	0.0	93.0
<b>Total</b>	Lumens	20380.4	0.0	20380.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	298.6	1.5
10°-20°	674.1	3.3
20°-30°	963.5	4.7
30°-40°	1649.3	8.1
40°-50°	2976.8	14.6
50°-60°	5090.8	25.0
60°-70°	6265.8	30.7
70°-80°	2368.8	11.6
80°-90°	92.5	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°	20380.4	100.0
0°-180°	20380.4	100.0

**Coefficient of Utilization**

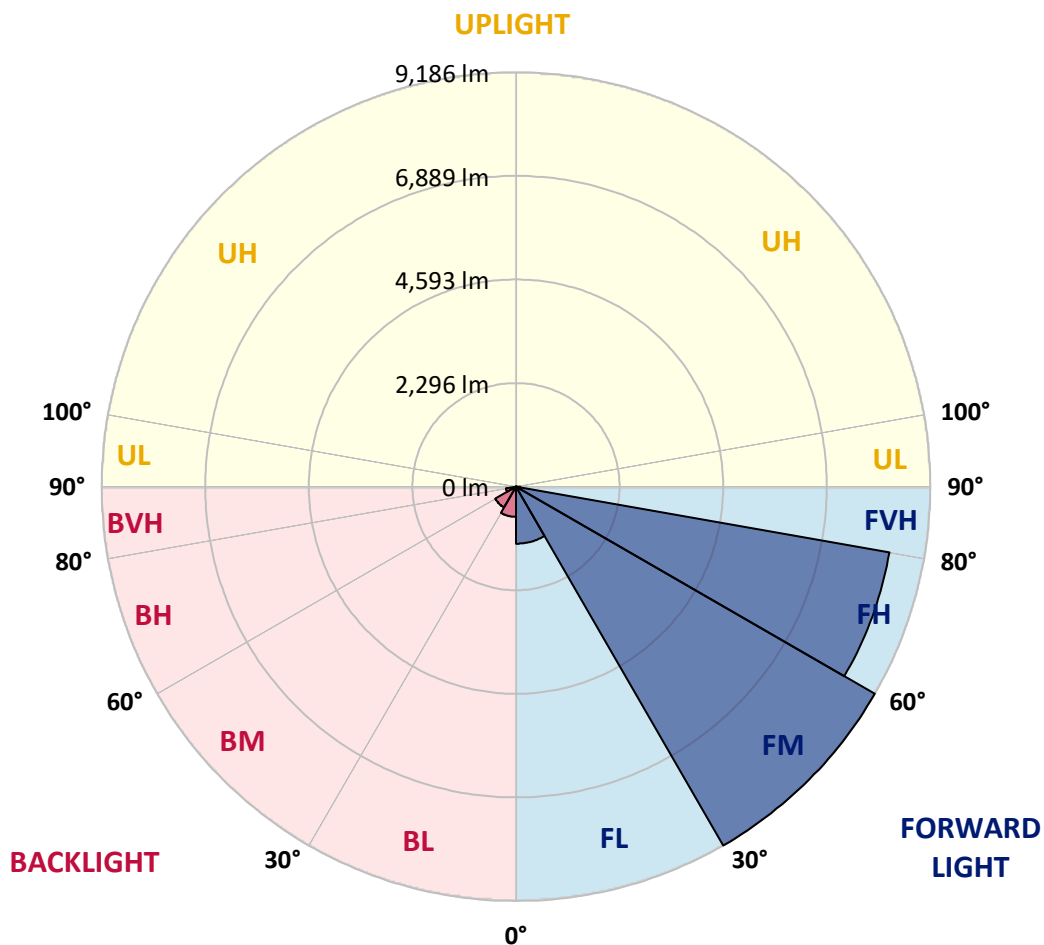


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1265.2	6.2			
FM (30°-60°)	9185.9	45.1			
FH (60°-80°)	8407.7	41.3			G4/12000
FVH (80°-90°)	88.8	0.4			G1/100
BL (0°-30°)	671.1	3.3	B2/1000		
BM (30°-60°)	531.1	2.6	B1/1000		
BH (60°-80°)	227.0	1.1	B1/500		G1/500
BVH (80°-90°)	3.7	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°	3264.3	3264.3	3264.3	3264.3	3264.3	3264.3	3264.3	3264.3	3264.3	3264.3	3264.3
2.5°	3002.5	2974.8	3002.5	3042.6	3064.1	3082.6	3147.3	3202.7	3261.2	3301.2	3288.9
5°	2783.9	2836.2	2842.4	2854.7	2888.6	2999.4	3036.4	3131.9	3276.6	3288.9	3344.3
7.5°	2611.4	2596.0	2636.1	2716.1	2802.3	2867.0	2974.8	3141.1	3292.0	3344.3	3452.1
10°	2362.0	2392.8	2435.9	2516.0	2620.7	2780.8	2971.7	3156.5	3372.1	3390.5	3590.7
12.5°	2226.5	2195.7	2263.4	2346.6	2525.2	2673.0	2907.1	3128.8	3421.3	3523.0	3753.9
15°	2115.6	2131.0	2195.7	2251.1	2398.9	2586.8	2860.9	3196.5	3504.5	3575.3	3926.4
17.5°	2069.4	2060.2	2109.5	2164.9	2346.6	2559.1	2842.4	3199.6	3578.4	3670.8	4043.4
20°	2091.0	2109.5	2094.1	2146.4	2260.4	2475.9	2870.1	3258.1	3633.8	3760.1	4169.6
22.5°	2429.7	2405.1	2281.9	2183.4	2189.5	2442.0	2848.5	3295.1	3683.1	3784.7	4255.9
25°	3313.5	3181.1	2876.3	2497.5	2248.0	2349.7	2823.9	3282.8	3673.8	3800.1	4308.2
27.5°	4203.5	4089.6	3790.9	3202.7	2485.2	2312.7	2737.7	3292.0	3627.7	3744.7	4222.0
30°	5142.8	5204.4	4760.9	4061.9	3107.2	2516.0	2682.2	3242.7	3596.9	3695.4	4240.5
32.5°	6106.7	6082.0	5814.1	5056.5	3997.2	2965.6	2771.6	3292.0	3636.9	3732.4	4348.3
35°	6861.1	6774.9	6503.9	5820.3	4733.2	3643.1	3079.5	3526.0	3812.4	3926.4	4502.2
37.5°	7233.8	7270.7	7113.7	6519.3	5540.0	4271.3	3464.4	3526.0	3867.9	4000.3	4751.7
40°	7523.2	7634.1	7575.6	7384.7	6340.7	4979.6	3889.4	3744.7	4148.1	4397.5	5219.8
42.5°	7871.2	7818.9	8163.8	7988.2	7387.7	5872.6	4634.7	4265.1	4810.2	5050.4	5921.9
45°	8056.0	8256.2	8517.9	8742.7	8357.8	6987.4	5607.8	5185.9	5823.3	6128.2	6965.8
47.5°	8530.2	8610.3	9035.3	9318.6	9146.1	8262.3	7085.9	6531.6	7098.3	7578.7	8160.7
50°	8807.4	8699.6	9293.9	9725.1	9823.6	9318.6	8410.1	7979.0	8613.4	9226.2	9278.5
52.5°	8564.1	8872.1	9466.4	10239.4	10513.4	10260.9	9965.3	9777.4	10224.0	10790.6	10538.1
55°	7711.1	7920.5	9367.9	10802.9	11686.7	11569.7	11843.8	11720.6	12170.2	12770.7	12010.1
57.5°	7024.4	7286.1	8557.9	11095.5	12779.9	13124.8	13469.8	13392.8	13934.8	14627.6	13257.3
60°	6596.3	6747.2	7972.8	11021.5	13426.6	14732.4	15511.5	14969.5	15853.3	16383.0	14233.5
62.5°	5854.1	5949.6	7119.8	10042.3	13620.6	15868.7	17189.8	16453.8	17220.6	17867.3	14935.6
65°	4693.2	4951.8	5918.8	8576.4	12339.6	16078.1	18236.8	17371.5	18113.6	18538.6	15148.1
66°	4271.3	4459.1	5346.0	7800.4	11609.7	15730.1	18061.3	17562.4	18243.0	18631.0	14821.7
67.5°	3544.5	3707.7	4412.9	6694.8	10116.2	14963.3	18184.5	17433.1	18341.5	18104.4	14384.4
70°	2346.6	2451.3	3017.9	4526.9	7045.9	12241.0	16866.4	16423.0	16124.3	15234.3	11246.4
72.5°	1096.3	1247.2	1884.7	2743.8	4132.7	8564.1	13753.1	13158.7	11307.9	9885.2	7095.2
75°	495.8	563.5	1034.7	1573.6	1853.9	4437.6	8872.1	8012.9	5629.3	4674.7	3107.2
77.5°	267.9	304.9	505.0	748.3	674.4	1555.1	4391.4	3652.3	1773.8	1299.6	902.3
80°	206.3	243.3	421.9	428.1	249.4	403.4	1632.1	1130.2	443.4	335.7	215.6
82.5°	107.8	154.0	332.6	277.2	126.3	163.2	505.0	314.1	138.6	110.9	92.4
85°	43.1	67.7	187.8	184.8	73.9	55.4	141.7	95.5	55.4	46.2	43.1
87.5°	3.1	3.1	101.6	70.8	46.2	15.4	21.6	21.6	27.7	24.6	30.8
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°	3264.3	3264.3	3264.3	3264.3	3264.3	3264.3	3264.3	3264.3	3264.3	3264.3	3264.3
2.5°	3344.3	3381.3	3387.5	3489.1	3510.6	3489.1	3544.5	3535.3	3559.9	3541.4	3507.6
5°	3421.3	3473.7	3575.3	3652.3	3652.3	3590.7	3541.4	3476.8	3381.3	3356.7	3338.2
7.5°	3553.7	3720.0	3812.4	3763.2	3664.6	3433.6	3113.4	2879.3	2682.2	2608.3	2574.5
10°	3787.8	3880.2	3988.0	3787.8	3378.2	2888.6	2349.7	1995.5	1718.4	1656.8	1610.6
12.5°	3938.7	4086.5	4148.1	3652.3	2848.5	2118.7	1533.6	1133.3	939.2	791.4	766.8
15°	4135.8	4305.1	4178.9	3285.8	2245.0	1388.9	794.5	495.8	403.4	378.8	378.8
17.5°	4271.3	4456.0	4052.6	2830.1	1592.1	739.1	394.2	341.8	335.7	338.7	332.6
20°	4508.4	4619.3	3861.7	2300.4	951.6	378.8	317.2	304.9	298.7	308.0	301.8
22.5°	4597.7	4699.3	3550.7	1666.0	428.1	252.5	237.1	227.9	234.0	231.0	227.9
25°	4591.5	4643.9	3039.5	954.6	126.3	98.5	89.3	89.3	83.1	86.2	83.1
27.5°	4637.7	4508.4	2466.7	283.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	4662.4	4289.8	1755.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	4674.7	4175.8	1130.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	4770.2	3947.9	483.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	4834.8	3655.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	5102.7	3563.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	5450.7	3390.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	5934.2	3134.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	6574.7	2984.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	7052.1	2746.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	7658.7	2605.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	8379.3	2611.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	9035.3	2568.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	9370.9	2195.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	9300.1	1776.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	9053.7	1395.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	8884.4	1234.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	8370.1	988.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	6661.0	677.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	4237.4	415.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	1952.4	190.9	6.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	612.8	117.0	24.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	160.1	73.9	24.6	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	83.1	52.4	21.6	9.2	6.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	52.4	21.6	9.2	6.2	6.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	46.2	12.3	6.2	6.2	3.1	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)