

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: P482824

Luminaire Tested: **IFLD-L-SA7C-735-U-T3R-HSS**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P482824  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7C-735-U-T3R-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens with House Side Shield  
Light Source: (112) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

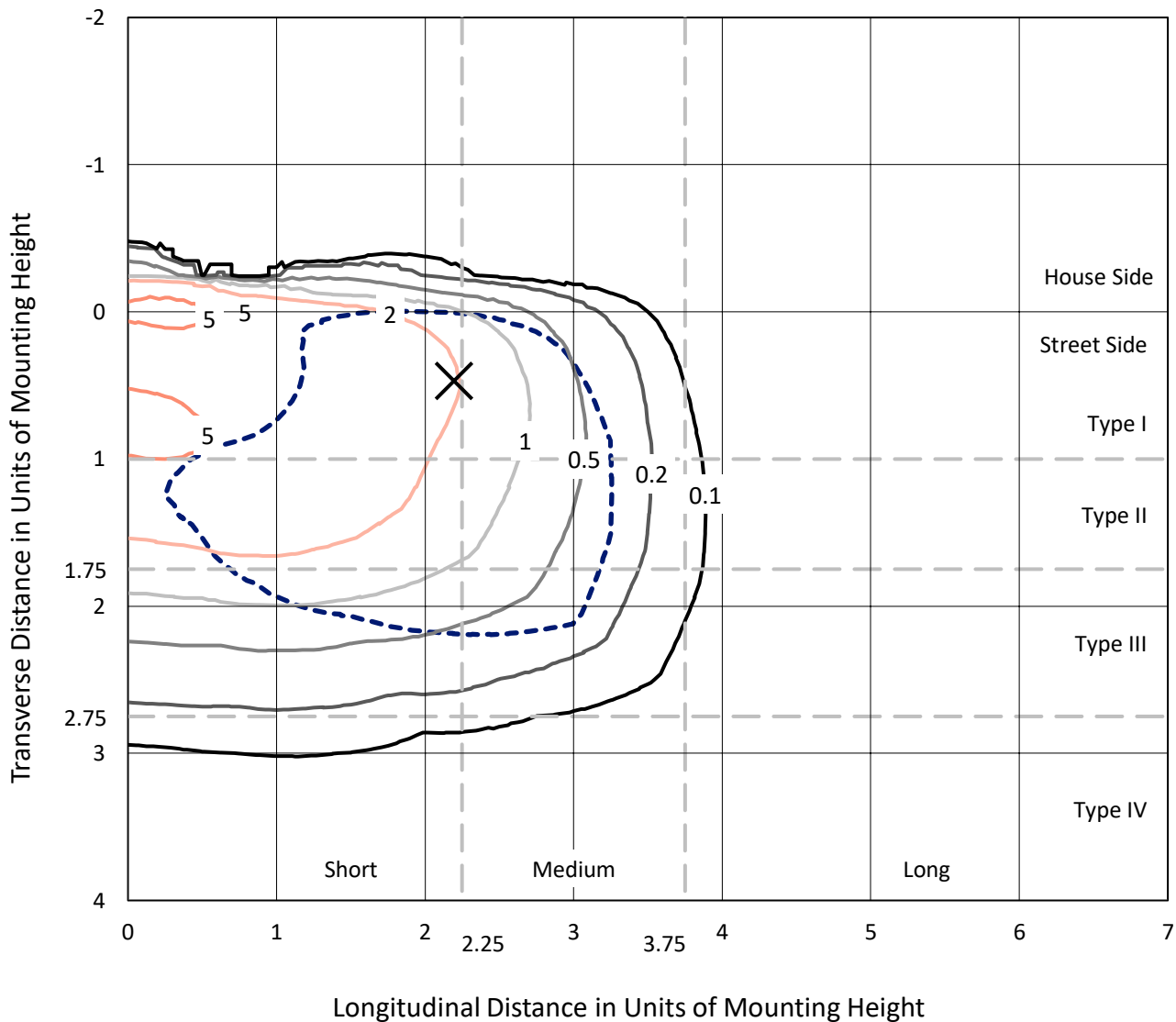
Lumens per Lamp: N/A  
Luminaire Lumens: 31341.9 lumens  
Efficiency: N/A  
Efficacy: 84.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G5

Input Watts (W): 369  
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

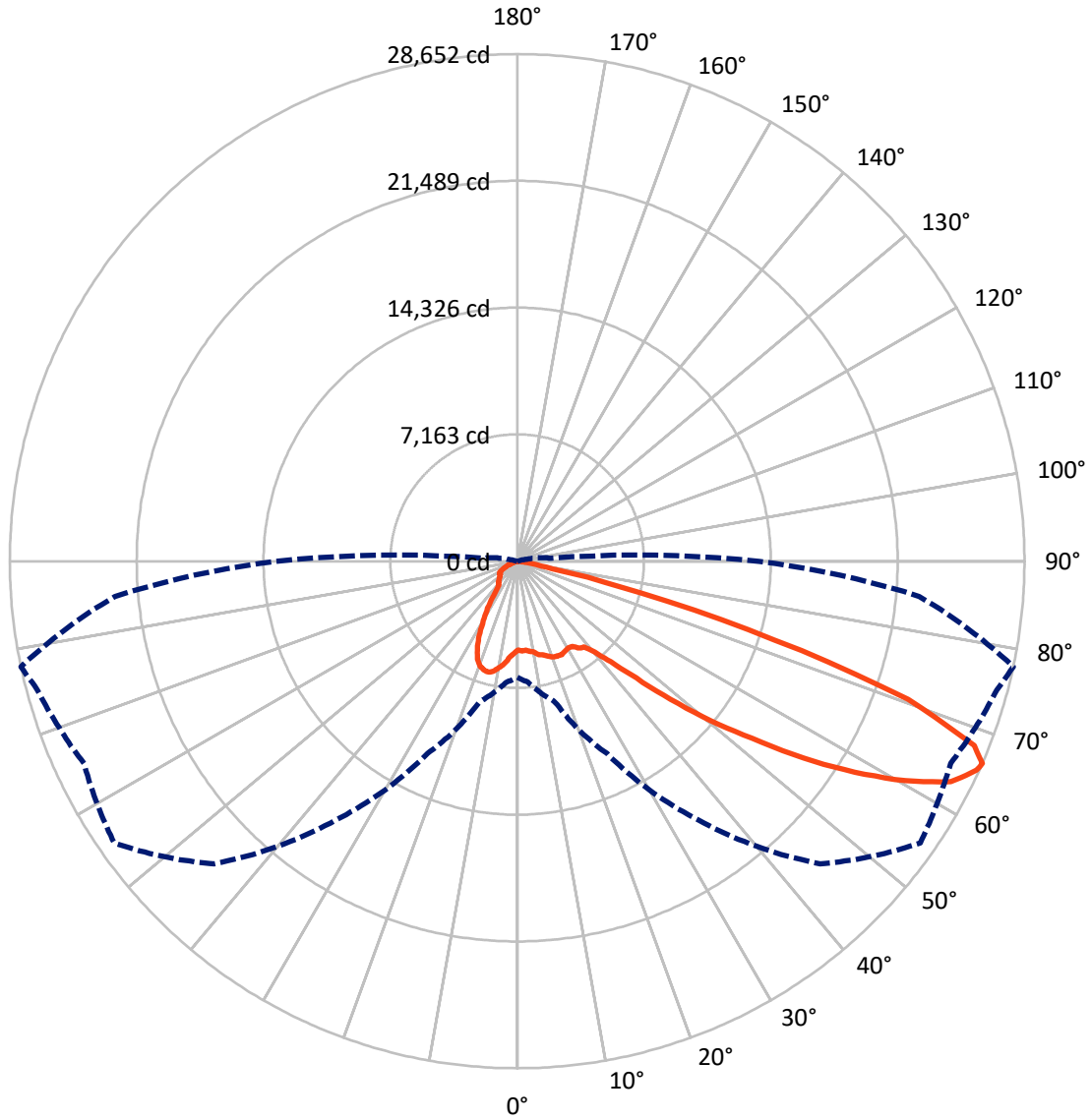
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.4 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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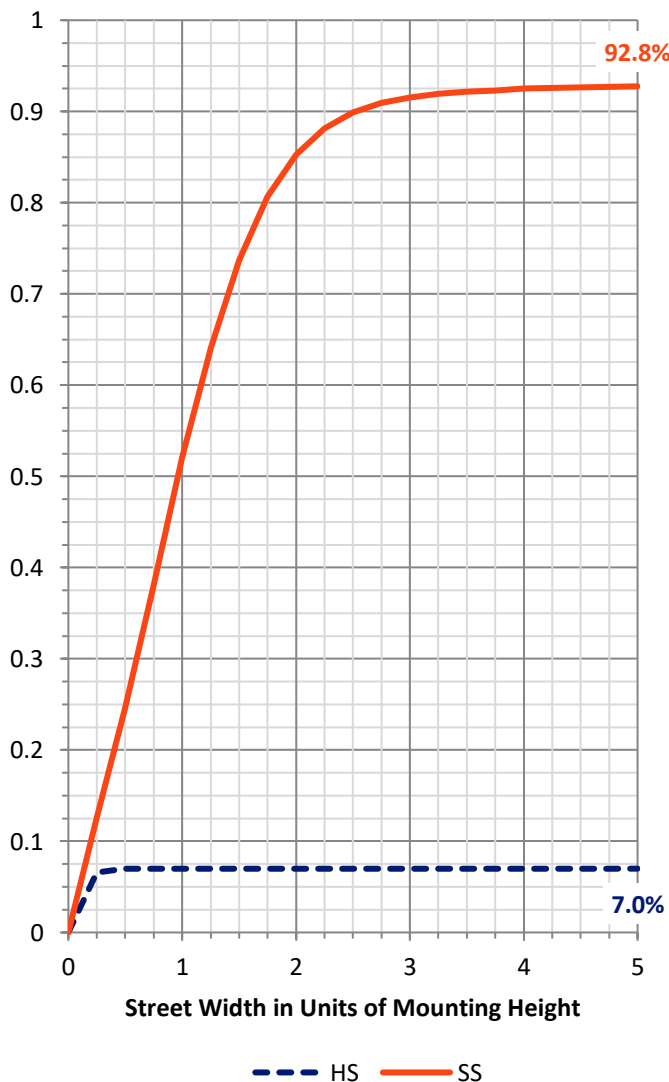
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2203.5	0.0	2203.5
	% Fixture	7.0	0.0	7.0
<b>Street Side</b>	Lumens	29138.4	0.0	29138.4
	% Fixture	93.0	0.0	93.0
<b>Total</b>	Lumens	31341.9	0.0	31341.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	459.2	1.5
10°-20°	1036.7	3.3
20°-30°	1481.8	4.7
30°-40°	2536.4	8.1
40°-50°	4577.9	14.6
50°-60°	7828.8	25.0
60°-70°	9635.9	30.7
70°-80°	3642.9	11.6
80°-90°	142.3	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°	31341.9	100.0
0°-180°	31341.9	100.0

**Coefficient of Utilization**

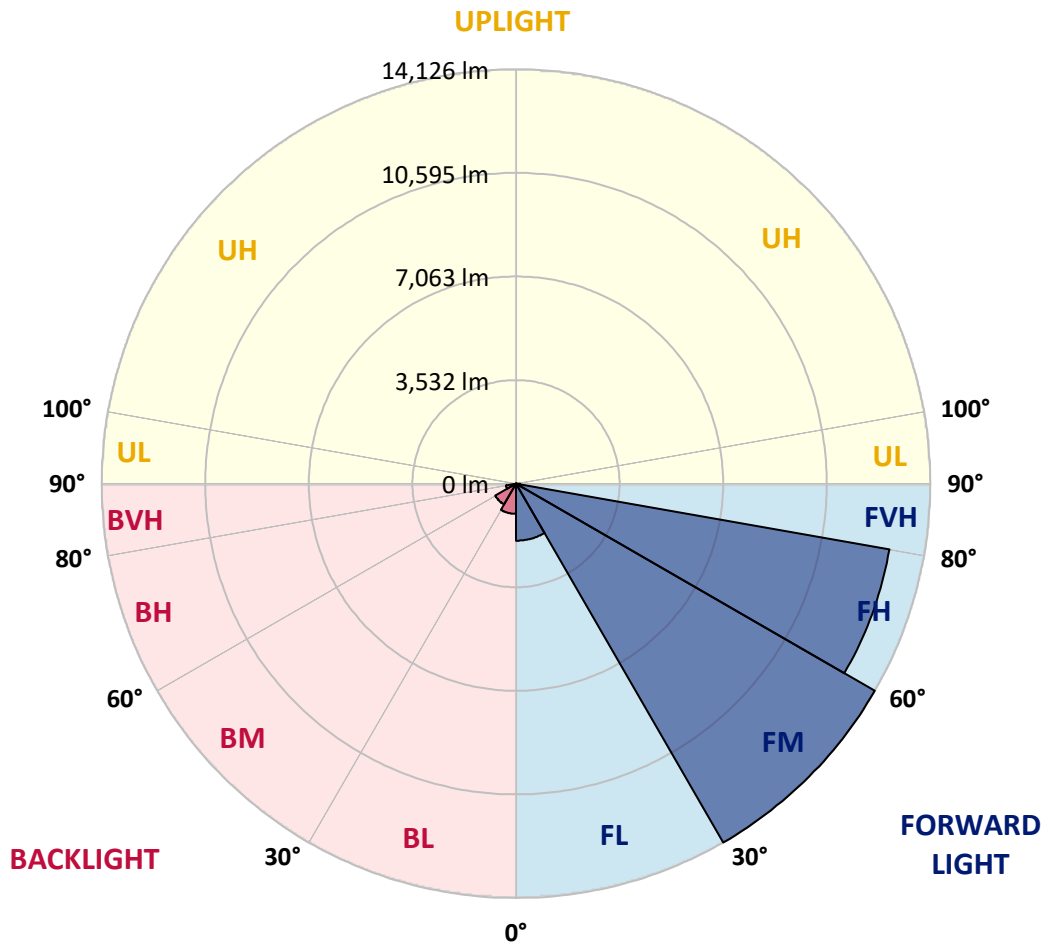


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1945.7	6.2			
FM (30°-60°)	14126.4	45.1			
FH (60°-80°)	12929.7	41.3			G5
FVH (80°-90°)	136.6	0.4			G2/225
BL (0°-30°)	1032.0	3.3	B3/2500		
BM (30°-60°)	816.7	2.6	B1/1000		
BH (60°-80°)	349.1	1.1	B1/500		G1/500
BVH (80°-90°)	5.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: 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°	5019.9	5019.9	5019.9	5019.9	5019.9	5019.9	5019.9	5019.9	5019.9	5019.9	5019.9
2.5°	4617.4	4574.8	4617.4	4679.0	4712.1	4740.5	4840.0	4925.2	5015.2	5076.8	5057.8
5°	4281.2	4361.7	4371.1	4390.1	4442.2	4612.7	4669.5	4816.3	5038.9	5057.8	5143.1
7.5°	4016.0	3992.3	4053.8	4177.0	4309.6	4409.0	4574.8	4830.5	5062.6	5143.1	5308.8
10°	3632.4	3679.7	3746.0	3869.1	4030.2	4276.4	4570.0	4854.2	5185.7	5214.1	5521.9
12.5°	3424.0	3376.6	3480.8	3608.7	3883.4	4110.7	4470.6	4811.6	5261.5	5417.8	5772.9
15°	3253.5	3277.2	3376.6	3461.9	3689.2	3978.1	4399.6	4915.8	5389.3	5498.3	6038.1
17.5°	3182.5	3168.3	3244.0	3329.3	3608.7	3935.5	4371.1	4920.5	5503.0	5645.1	6218.1
20°	3215.6	3244.0	3220.3	3300.9	3476.1	3807.6	4413.8	5010.5	5588.2	5782.4	6412.3
22.5°	3736.5	3698.7	3509.2	3357.7	3367.2	3755.5	4380.6	5067.3	5664.0	5820.3	6544.9
25°	5095.7	4892.1	4423.2	3840.7	3457.1	3613.4	4342.7	5048.4	5649.8	5844.0	6625.4
27.5°	6464.4	6289.1	5829.8	4925.2	3821.8	3556.6	4210.1	5062.6	5578.8	5758.7	6492.8
30°	7908.8	8003.5	7321.5	6246.5	4778.4	3869.1	4124.9	4986.8	5531.4	5683.0	6521.2
32.5°	9391.1	9353.2	8941.2	7776.2	6147.1	4560.6	4262.2	5062.6	5593.0	5739.8	6687.0
35°	10551.4	10418.8	10002.0	8950.7	7278.9	5602.5	4735.8	5422.5	5862.9	6038.1	6923.7
37.5°	11124.4	11181.2	10939.7	10025.7	8519.7	6568.6	5327.8	5422.5	5948.2	6151.8	7307.3
40°	11569.6	11740.1	11650.1	11356.5	9751.0	7657.8	5981.3	5758.7	6379.1	6762.7	8027.2
42.5°	12104.7	12024.2	12554.6	12284.7	11361.2	9031.2	7127.4	6559.1	7397.3	7766.7	9106.9
45°	12388.9	12696.7	13099.2	13444.9	12853.0	10745.5	8623.9	7975.1	8955.4	9424.2	10712.4
47.5°	13118.2	13241.3	13894.8	14330.5	14065.3	12706.2	10897.1	10044.6	10916.0	11654.8	12549.9
50°	13544.4	13378.6	14292.6	14955.7	15107.2	14330.5	12933.5	12270.5	13246.0	14188.5	14269.0
52.5°	13170.3	13643.8	14557.9	15746.5	16168.0	15779.7	15325.1	15036.2	15722.9	16594.2	16205.9
55°	11858.4	12180.5	14406.3	16613.2	17972.4	17792.4	18213.9	18024.5	18715.9	19639.4	18469.6
57.5°	10802.4	11204.9	13160.8	17063.1	19653.6	20184.0	20714.4	20596.0	21429.5	22495.1	20387.6
60°	10144.1	10376.1	12261.0	16949.4	20648.1	22656.1	23854.2	23020.7	24379.9	25194.5	21888.9
62.5°	9002.8	9149.6	10949.2	15443.4	20946.4	24403.6	26435.2	25303.4	26482.6	27477.1	22968.6
65°	7217.4	7615.2	9102.2	13189.2	18976.4	24725.6	28045.4	26714.7	27856.0	28509.5	23295.4
66°	6568.6	6857.4	8221.4	11995.8	17854.0	24190.5	27775.5	27008.3	28054.9	28651.6	22793.4
67.5°	5450.9	5701.9	6786.4	10295.6	15557.1	23011.3	27964.9	26809.4	28206.4	27841.8	22120.9
70°	3608.7	3769.7	4641.1	6961.6	10835.5	18824.8	25938.0	25256.0	24796.7	23428.0	17295.1
72.5°	1685.9	1918.0	2898.3	4219.6	6355.4	13170.3	21150.1	20236.1	17389.9	15201.9	10911.3
75°	762.5	866.7	1591.2	2420.0	2851.0	6824.3	13643.8	12322.6	8657.0	7188.9	4778.4
77.5°	412.0	468.8	776.7	1150.8	1037.1	2391.6	6753.3	5616.7	2727.8	1998.5	1387.6
80°	317.3	374.1	648.8	658.3	383.6	620.4	2510.0	1738.0	682.0	516.2	331.5
82.5°	165.8	236.8	511.5	426.2	194.2	251.0	776.7	483.1	213.1	170.5	142.1
85°	66.3	104.2	288.9	284.1	113.7	85.2	217.8	146.8	85.2	71.0	66.3
87.5°	4.7	4.7	156.3	108.9	71.0	23.7	33.2	33.2	42.6	37.9	47.4
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°	5019.9	5019.9	5019.9	5019.9	5019.9	5019.9	5019.9	5019.9	5019.9	5019.9	5019.9
2.5°	5143.1	5199.9	5209.4	5365.7	5398.8	5365.7	5450.9	5436.7	5474.6	5446.2	5394.1
5°	5261.5	5342.0	5498.3	5616.7	5616.7	5521.9	5446.2	5346.7	5199.9	5162.0	5133.6
7.5°	5465.1	5720.8	5862.9	5787.1	5635.6	5280.4	4787.9	4428.0	4124.9	4011.2	3959.1
10°	5825.0	5967.1	6132.9	5825.0	5195.2	4442.2	3613.4	3068.8	2642.6	2547.9	2476.8
12.5°	6057.1	6284.4	6379.1	5616.7	4380.6	3258.2	2358.4	1742.8	1444.4	1217.1	1179.2
15°	6360.2	6620.7	6426.5	5053.1	3452.4	2135.8	1221.8	762.5	620.4	582.5	582.5
17.5°	6568.6	6852.7	6232.3	4352.2	2448.4	1136.6	606.2	525.7	516.2	520.9	511.5
20°	6933.2	7103.7	5938.7	3537.6	1463.4	582.5	487.8	468.8	459.4	473.6	464.1
22.5°	7070.6	7226.8	5460.4	2562.1	658.3	388.3	364.7	350.4	359.9	355.2	350.4
25°	7061.1	7141.6	4674.2	1468.1	194.2	151.5	137.3	137.3	127.9	132.6	127.9
27.5°	7132.1	6933.2	3793.4	435.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	7170.0	6597.0	2699.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	7188.9	6421.7	1738.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	7335.8	6071.3	743.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	7435.2	5621.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	7847.2	5479.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	8382.4	5214.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	9125.9	4821.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	10110.9	4589.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	10845.0	4224.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	11777.9	4006.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	12886.1	4016.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	13894.8	3949.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	14411.0	3376.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	14302.1	2732.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	13923.3	2145.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	13662.8	1899.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	12871.9	1520.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	10243.5	1041.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	6516.5	639.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	3002.5	293.6	9.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	942.4	180.0	37.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	246.3	113.7	37.9	4.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	127.9	80.5	33.2	14.2	9.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	80.5	33.2	14.2	9.5	9.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	71.0	18.9	9.5	9.5	4.7	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)