

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: P481654

Luminaire Tested: **IFLD-L-SA7C-735-U-T2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481654
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-T2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield
Light Source: (112) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

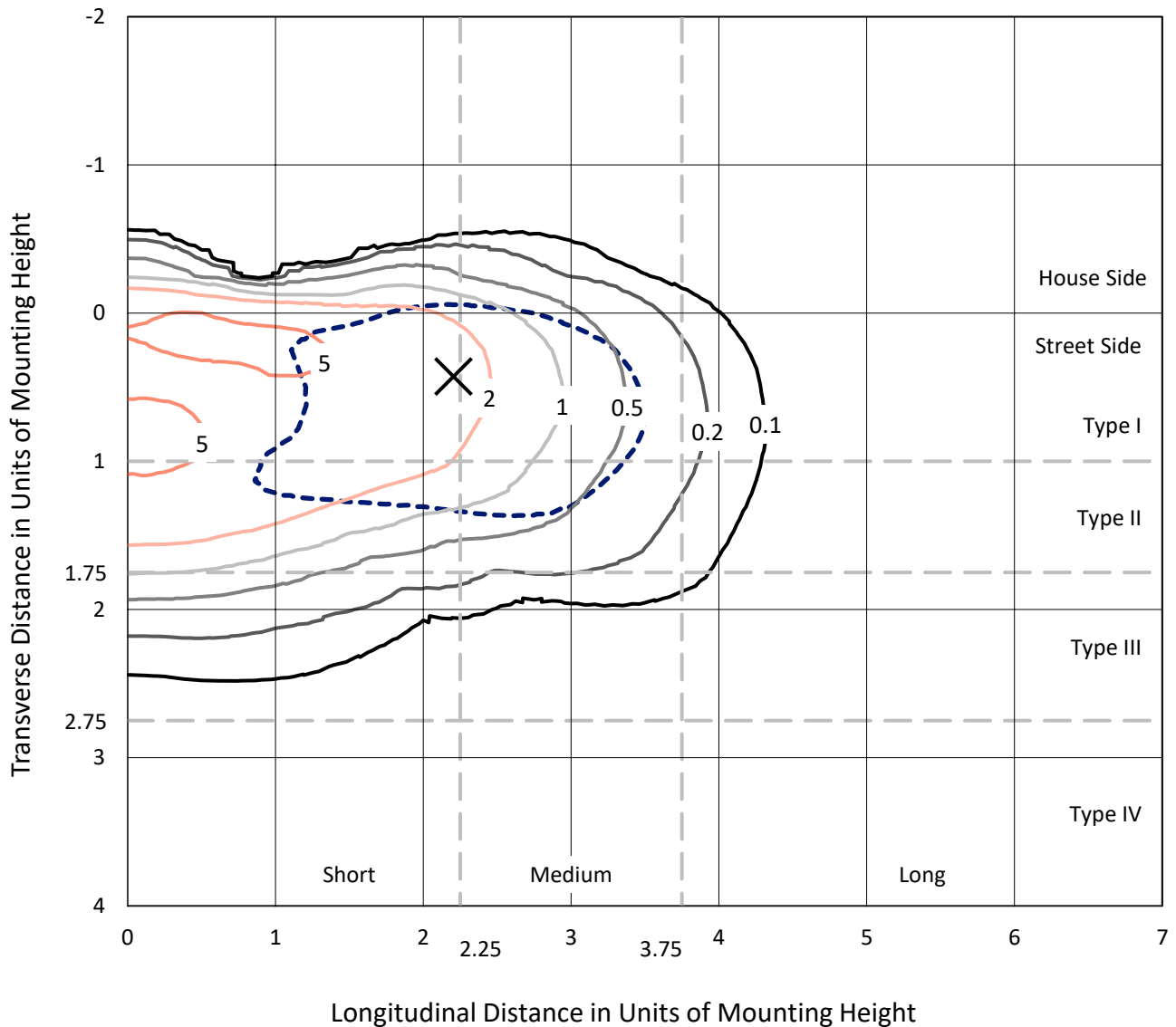
Lumens per Lamp: N/A
Luminaire Lumens: 31487 lumens
Efficiency: N/A
Efficacy: 85.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 369
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

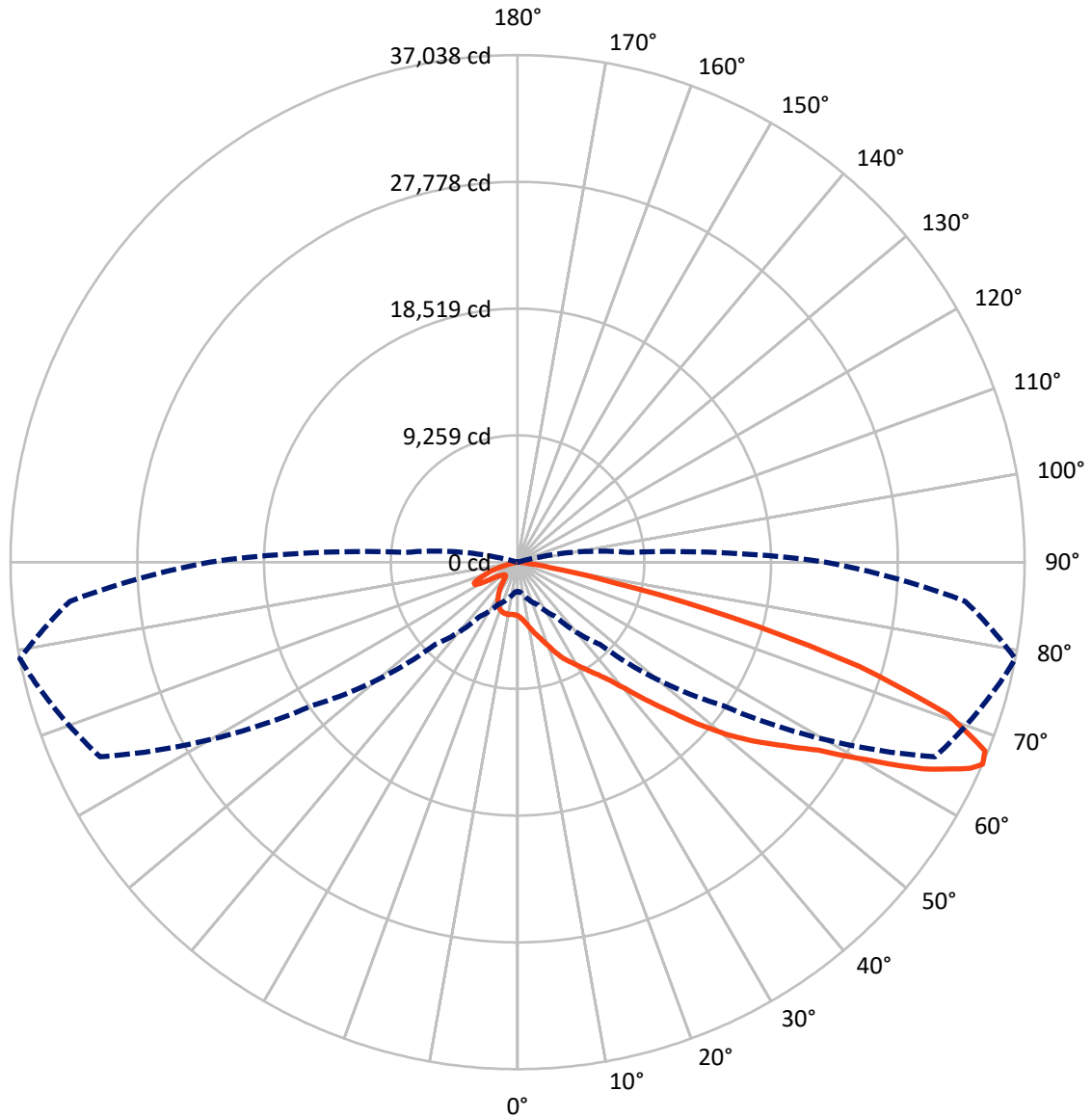
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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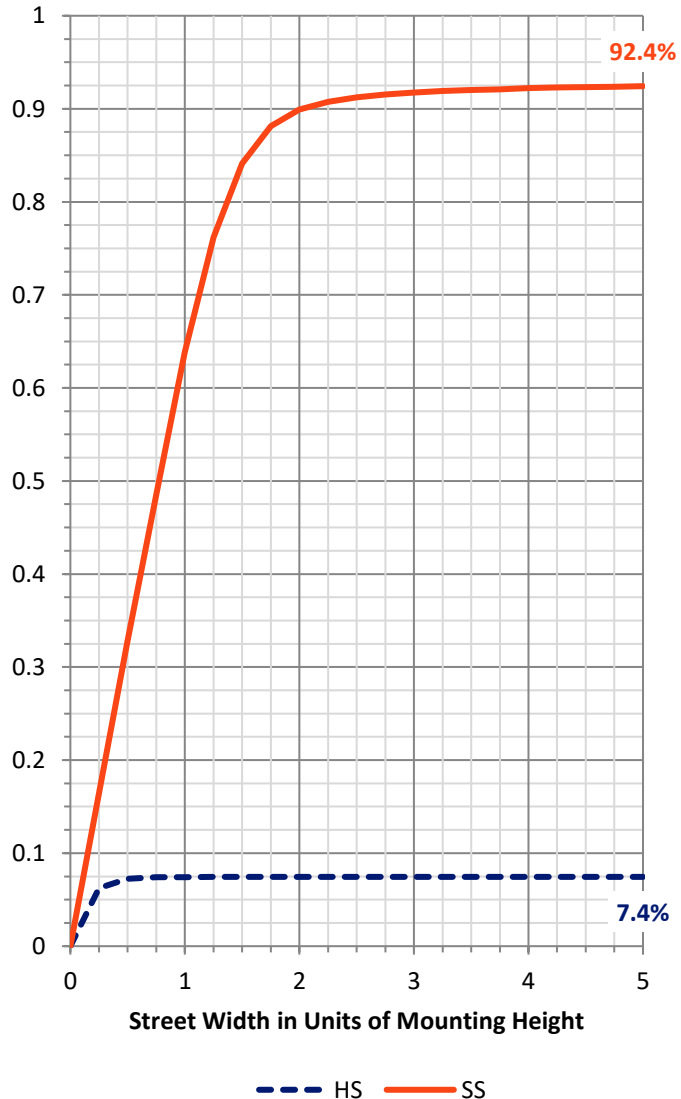
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2364.2	0.0	2364.2
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	29122.7	0.0	29122.7
	% Fixture	92.5	0.0	92.5
Total	Lumens	31487.0	0.0	31487.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	370.5	1.2
10°-20°	1019.6	3.2
20°-30°	1693.8	5.4
30°-40°	2909.3	9.2
40°-50°	5270.6	16.7
50°-60°	8331.3	26.5
60°-70°	8477.7	26.9
70°-80°	3233.0	10.3
80°-90°	181.3	0.6
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°	31487.0	100.0
0°-180°	31487.0	100.0

Coefficient of Utilization



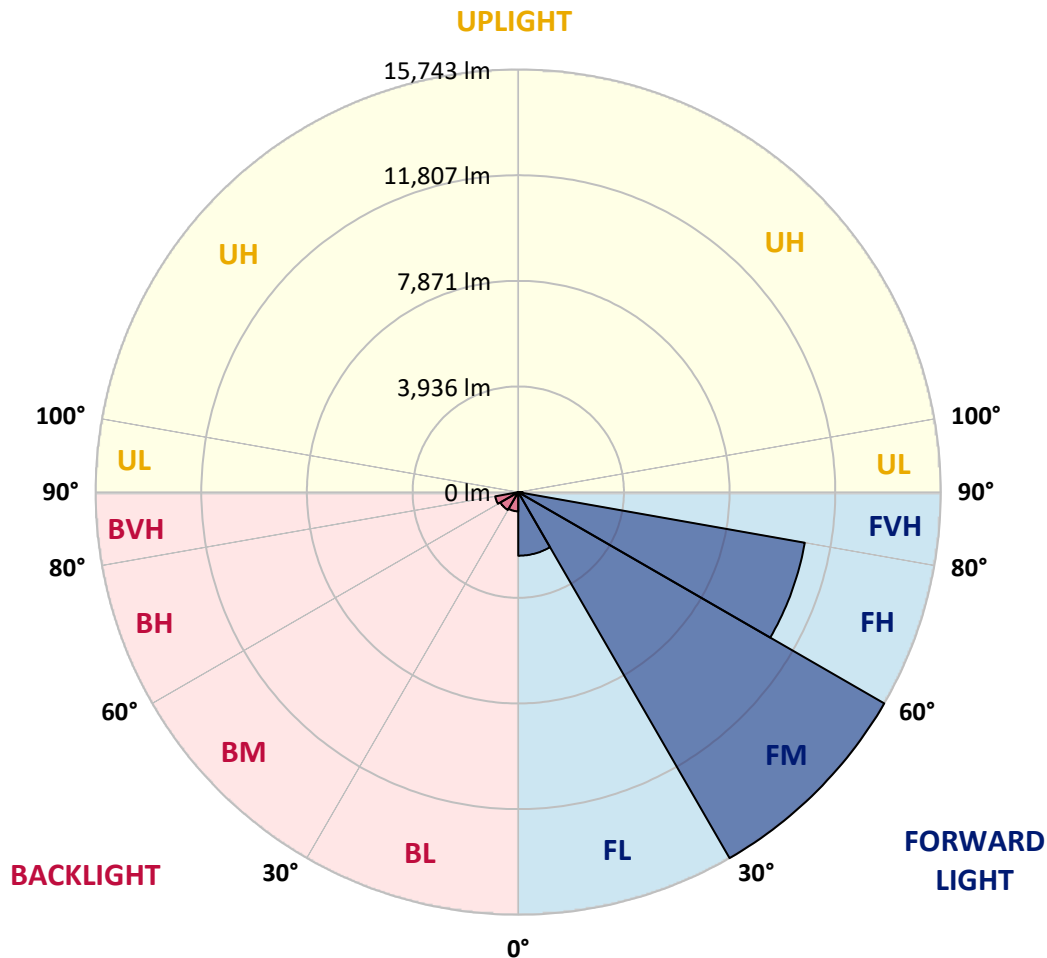
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2368.9	7.5			
FM (30°-60°)	15742.8	50.0			
FH (60°-80°)	10839.1	34.4			G4/12000
FVH (80°-90°)	172.0	0.5			G2/225
BL (0°-30°)	715.0	2.3	B2/1000		
BM (30°-60°)	768.4	2.4	B1/1000		
BH (60°-80°)	871.6	2.8	B2/1000		G2/1000
BVH (80°-90°)	9.3	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	3917.4	3917.4	3917.4	3917.4	3917.4	3917.4	3917.4	3917.4	3917.4	3917.4	3917.4
2.5°	4436.8	4431.9	4412.5	4378.5	4334.8	4320.3	4257.2	4169.8	4121.2	4067.8	4043.6
5°	4742.6	4718.3	4776.6	4752.3	4762.0	4645.5	4567.8	4504.7	4320.3	4247.4	4130.9
7.5°	4810.5	4834.8	4830.0	4868.8	4907.6	4951.3	4897.9	4805.7	4621.2	4514.4	4388.2
10°	4810.5	4800.8	4839.7	4893.1	5004.7	5101.8	5247.4	5126.1	4985.3	4859.1	4630.9
12.5°	4723.2	4708.6	4747.4	4859.1	5058.1	5257.1	5417.3	5533.8	5334.8	5232.9	4936.7
15°	4456.2	4441.6	4601.8	4800.8	5063.0	5388.2	5723.1	5912.4	5776.5	5616.3	5286.2
17.5°	4126.1	4145.5	4315.4	4645.5	5063.0	5451.3	5878.5	6291.1	6271.7	6067.8	5723.1
20°	4014.4	4029.0	4198.9	4436.8	4912.5	5495.0	6121.2	6703.7	6820.2	6577.5	6126.0
22.5°	4228.0	4213.5	4228.0	4373.7	4810.5	5456.1	6281.4	7174.5	7383.3	7194.0	6655.1
25°	4956.2	4946.5	4825.1	4601.8	4752.3	5368.8	6363.9	7485.2	7965.8	7791.0	7082.3
27.5°	6024.1	5985.3	5795.9	5329.9	5024.1	5422.2	6499.8	7786.2	8475.5	8276.5	7465.8
30°	7169.7	7077.5	6829.9	6247.4	5728.0	5621.2	6577.5	8009.5	9043.4	8791.0	7800.7
32.5°	7960.9	8082.3	8004.6	7412.4	6616.3	6082.3	6703.7	8291.0	9567.7	9402.6	8373.5
35°	9184.2	9325.0	8999.7	8475.5	7674.5	6815.3	6970.7	8519.2	10373.5	10096.8	8907.5
37.5°	10727.8	10834.6	10601.6	9606.5	8761.9	7718.2	7519.2	8994.9	11067.6	10936.6	9591.9
40°	11504.5	12019.1	11689.0	10790.9	9883.2	8980.3	8426.9	9553.1	12276.3	12169.5	10538.5
42.5°	12577.3	12834.6	12664.7	11999.6	11053.1	10329.8	9548.3	10640.5	13742.3	13742.3	11820.0
45°	13713.2	13722.9	13713.2	13169.5	12329.7	11956.0	11062.8	12004.5	15319.9	15494.7	13354.0
47.5°	14645.2	14936.4	14912.2	14586.9	13936.5	13795.7	12577.3	13557.8	17300.5	17606.3	14849.1
50°	15125.8	15451.0	15548.1	15718.0	15688.9	15985.0	14232.6	15358.8	19009.1	19761.5	16771.3
52.5°	14994.7	15019.0	15616.0	16285.9	17353.8	18183.9	16227.7	17402.4	21009.1	21751.8	18256.7
55°	13921.9	13829.7	15057.8	15824.8	18033.4	19528.5	18989.7	19950.9	22567.3	23698.3	19790.7
57.5°	11567.6	11591.9	12727.8	14286.0	17528.6	20062.5	21941.1	23280.9	24751.7	25892.4	21945.9
60°	7985.2	7956.1	9227.9	11028.8	14562.7	19067.4	23640.1	27596.3	27673.9	29290.4	25814.8
62.5°	4490.2	4499.9	5465.9	7004.6	10189.0	15582.1	23557.5	32178.6	31848.6	33266.0	30212.7
65°	2543.6	2606.7	3271.7	4150.4	6101.8	10460.9	20261.5	34003.8	35066.9	36329.0	32882.5
66°	2150.4	2194.1	2762.1	3427.1	4868.8	8485.2	18237.3	33649.5	36076.6	37037.7	32829.1
67.5°	1665.0	1723.2	2199.0	2718.4	3572.7	5873.6	14679.2	31887.4	36261.1	36824.1	31902.0
70°	1140.7	1179.6	1543.6	2063.0	2441.7	3004.8	8776.4	26363.3	32901.9	33377.6	27727.3
72.5°	800.9	820.4	1082.5	1563.1	1878.6	1718.4	4354.2	18756.7	25178.9	26106.0	21567.3
75°	577.7	597.1	742.7	1121.3	1466.0	1126.2	1995.1	11980.2	15441.3	16169.4	12989.9
77.5°	417.5	441.7	504.8	723.3	1063.1	791.2	980.6	6257.1	7281.3	7155.1	5587.2
80°	252.4	276.7	373.8	466.0	776.7	558.2	538.8	2611.6	2582.4	2451.4	1757.2
82.5°	116.5	135.9	199.0	315.5	543.7	388.3	257.3	932.0	815.5	747.6	495.1
85°	34.0	43.7	116.5	237.9	276.7	189.3	155.3	320.4	334.9	286.4	165.0
87.5°	0.0	4.9	53.4	58.3	82.5	63.1	58.3	82.5	155.3	126.2	53.4
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°	3917.4	3917.4	3917.4	3917.4	3917.4	3917.4	3917.4	3917.4	3917.4	3917.4	3917.4
2.5°	3956.2	3922.2	3839.7	3713.5	3601.8	3543.6	3461.1	3388.2	3349.4	3344.6	3339.7
5°	4053.3	3961.0	3762.0	3533.9	3364.0	3179.5	3053.3	2961.1	2873.7	2791.2	2839.7
7.5°	4184.3	4038.7	3713.5	3417.4	3048.5	2810.6	2587.3	2456.2	2378.6	2305.8	2296.0
10°	4388.2	4203.8	3679.5	3145.5	2723.2	2373.7	2145.6	1956.3	1849.5	1723.2	1771.8
12.5°	4664.9	4334.8	3553.3	2898.0	2354.3	1985.4	1660.1	1354.3	1184.4	1053.4	1058.2
15°	4941.6	4509.6	3436.8	2597.0	2019.4	1533.9	1058.2	849.5	800.9	771.8	781.5
17.5°	5213.4	4650.3	3257.2	2291.2	1635.9	975.7	771.8	728.1	703.9	674.7	674.7
20°	5543.5	4742.6	3033.9	2009.6	1126.2	723.3	660.2	631.0	592.2	553.4	558.2
22.5°	5863.9	4820.2	2776.6	1650.4	757.3	626.2	553.4	514.5	480.6	441.7	441.7
25°	6184.3	4844.5	2441.7	1184.4	611.6	500.0	432.0	378.6	344.6	310.7	315.5
27.5°	6402.7	4694.0	2126.1	757.3	490.3	378.6	301.0	257.3	228.1	194.2	194.2
30°	6528.9	4417.3	1786.4	534.0	368.9	257.3	179.6	135.9	106.8	82.5	77.7
32.5°	6655.1	4194.0	1402.9	407.8	242.7	135.9	68.0	24.3	0.0	0.0	0.0
35°	6907.6	3941.6	941.7	228.1	82.5	4.9	0.0	0.0	0.0	0.0	0.0
37.5°	7067.7	3592.1	432.0	34.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	7470.7	3417.4	106.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	8126.0	3296.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	8844.4	3247.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	9800.7	3378.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	10810.4	3732.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	11917.1	4067.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	12883.1	4470.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	14659.8	5422.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	17849.0	7291.0	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	21441.1	8679.4	53.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	22756.6	8645.4	92.2	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	22523.6	8169.7	92.2	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	21314.9	7257.1	82.5	9.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	18305.3	5995.0	82.5	14.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	13955.9	4669.8	77.7	19.4	4.9	0.0	0.0	0.0	0.0	0.0	0.0
75°	8422.1	2485.4	63.1	24.3	9.7	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	3354.3	873.8	48.5	19.4	9.7	0.0	0.0	0.0	0.0	0.0	0.0
80°	907.7	262.1	29.1	19.4	14.6	4.9	0.0	0.0	0.0	0.0	0.0
82.5°	237.9	97.1	24.3	19.4	9.7	4.9	0.0	0.0	0.0	0.0	0.0
85°	92.2	38.8	19.4	14.6	14.6	9.7	4.9	0.0	0.0	0.0	0.0
87.5°	29.1	14.6	14.6	9.7	9.7	4.9	4.9	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)