

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: P481772

Luminaire Tested: **IFLD-L-SA7D-760-U-T2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481772
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-760-U-T2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield
Light Source: (112) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

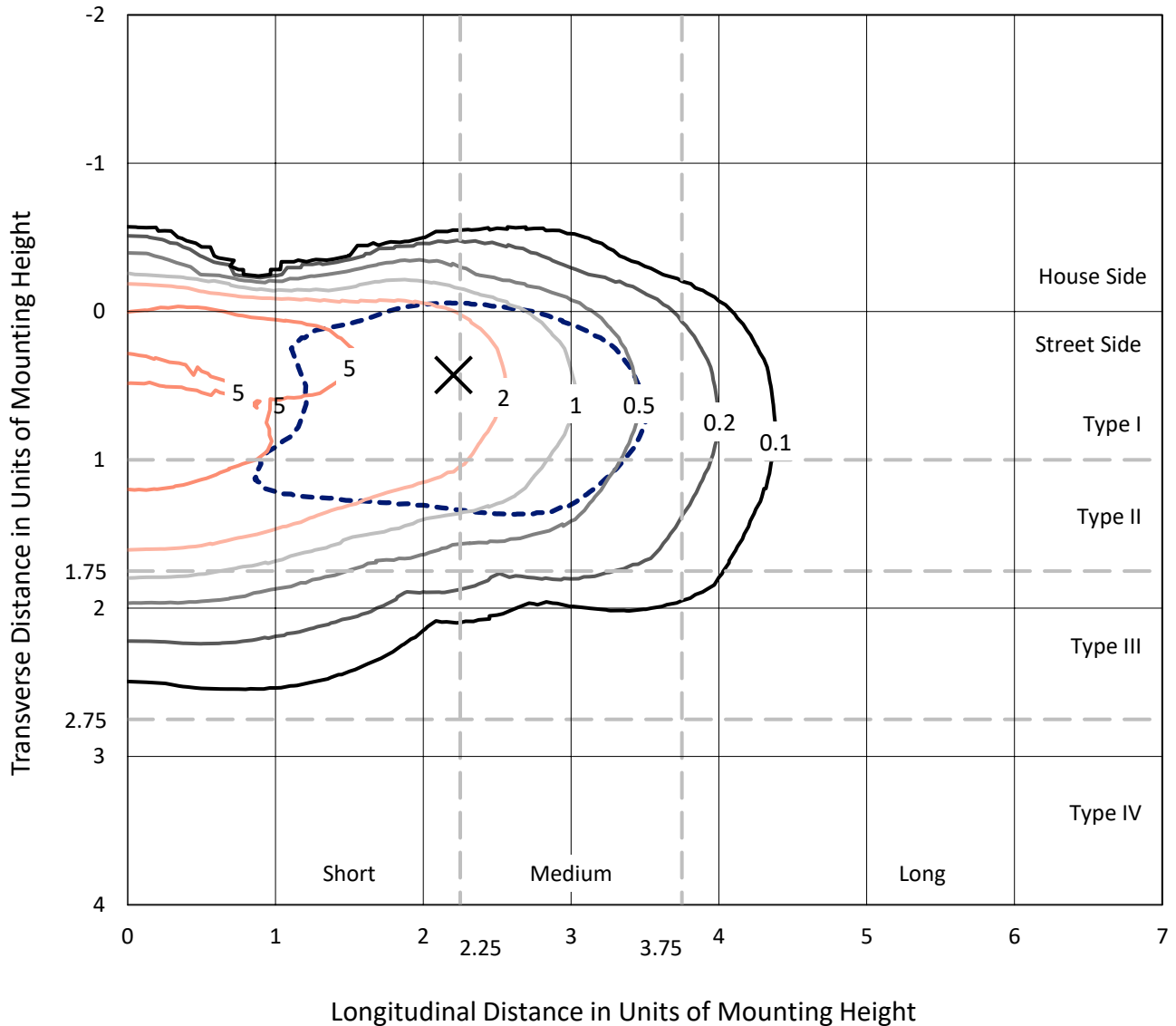
Lumens per Lamp: N/A
Luminaire Lumens: 35932.1 lumens
Efficiency: N/A
Efficacy: 85.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G5

Input Watts (W): 422.6
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

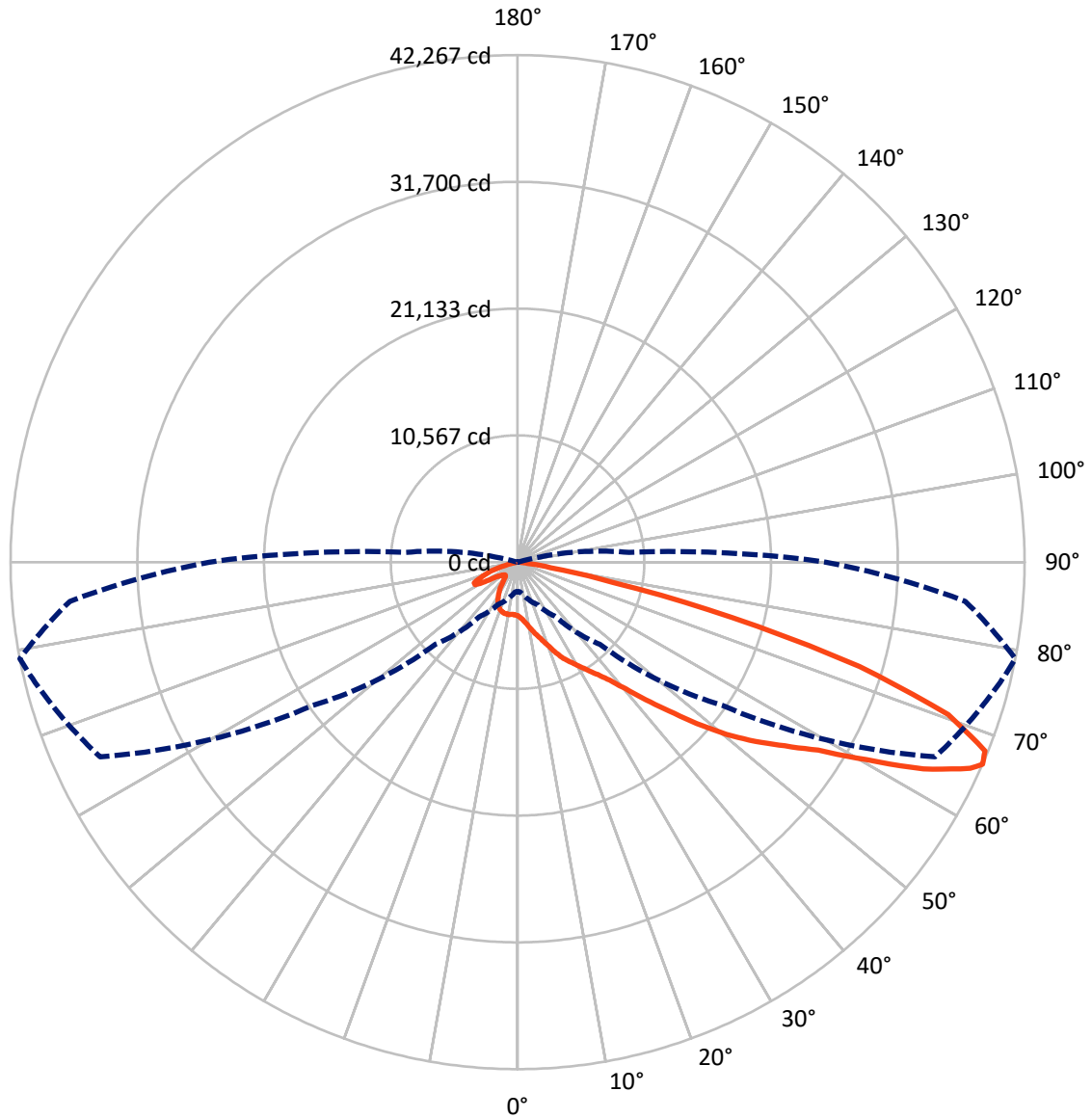
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.5 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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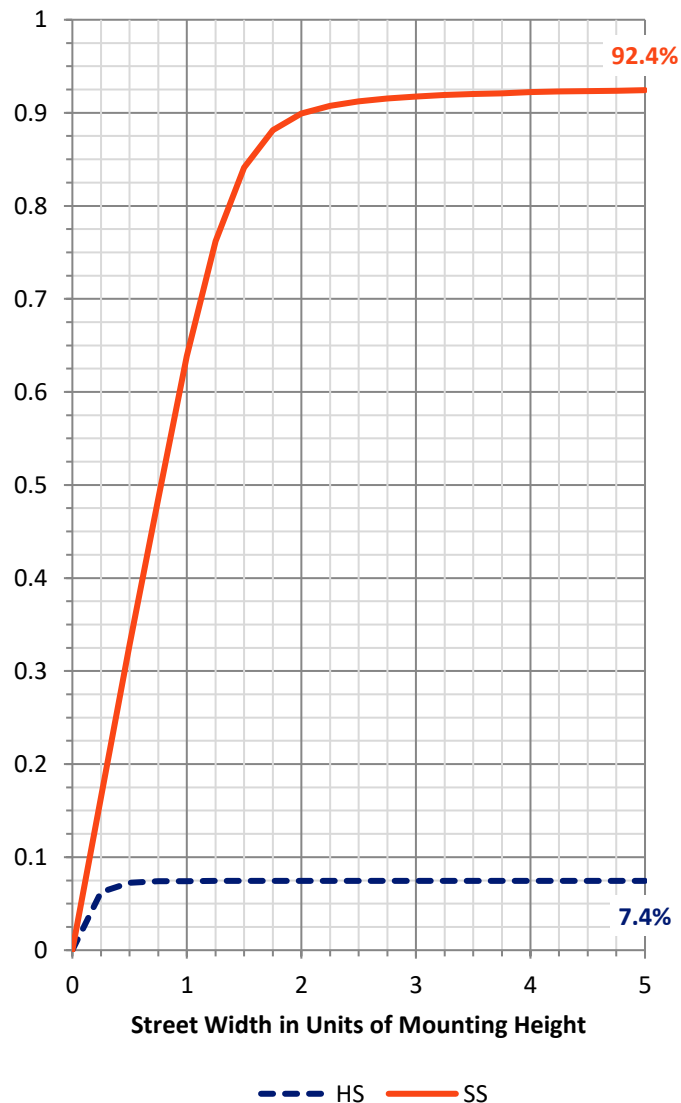
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2698.0	0.0	2698.0
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	33234.1	0.0	33234.1
	% Fixture	92.5	0.0	92.5
Total	Lumens	35932.1	0.0	35932.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	422.8	1.2
10°-20°	1163.5	3.2
20°-30°	1932.9	5.4
30°-40°	3320.0	9.2
40°-50°	6014.7	16.7
50°-60°	9507.4	26.5
60°-70°	9674.5	26.9
70°-80°	3689.4	10.3
80°-90°	206.8	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°	35932.1	100.0
0°-180°	35932.1	100.0

Coefficient of Utilization



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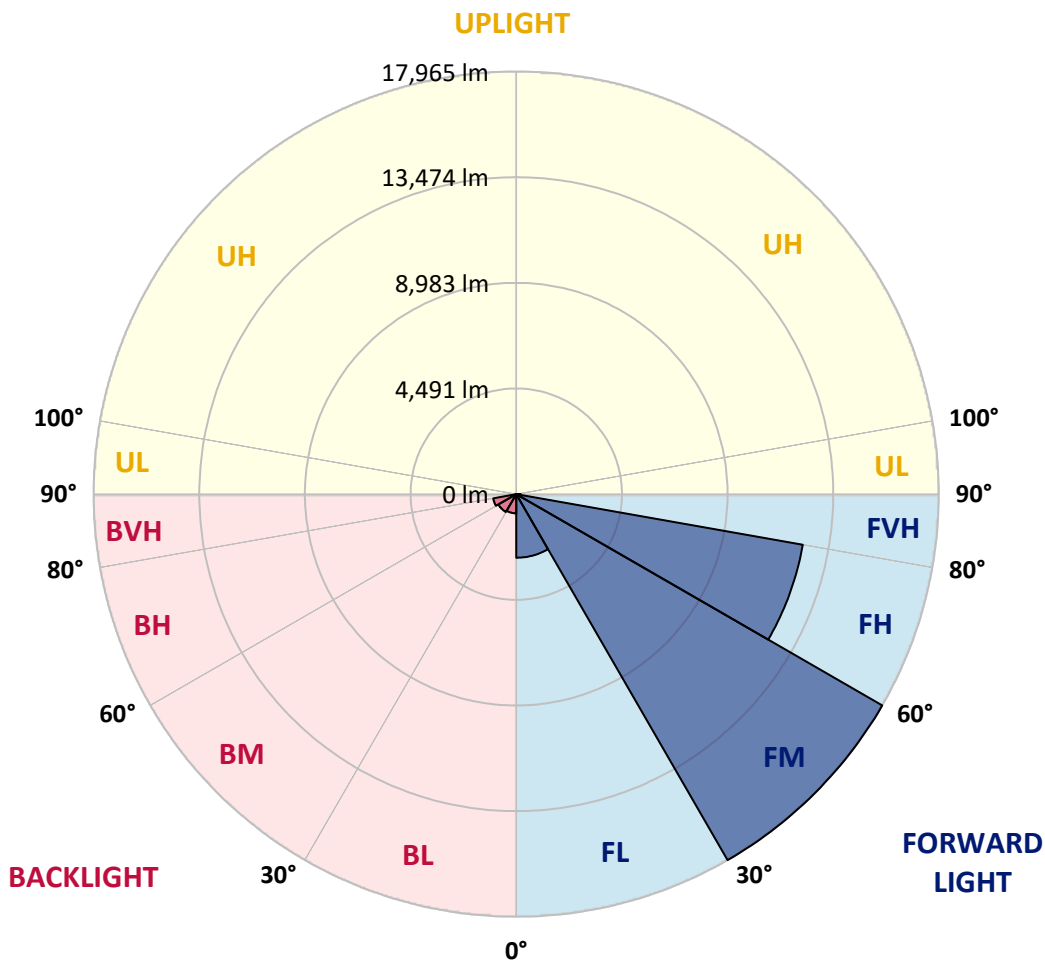
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2703.3	7.5			
FM (30°-60°)	17965.2	50.0			
FH (60°-80°)	12369.3	34.4			G5
FVH (80°-90°)	196.3	0.5			G2/225
BL (0°-30°)	815.9	2.3	B2/1000		
BM (30°-60°)	876.9	2.4	B1/1000		
BH (60°-80°)	994.6	2.8	B2/1000		G2/1000
BVH (80°-90°)	10.6	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	4470.4	4470.4	4470.4	4470.4	4470.4	4470.4	4470.4	4470.4	4470.4	4470.4	4470.4
2.5°	5063.1	5057.6	5035.4	4996.6	4946.8	4930.2	4858.2	4758.4	4703.0	4642.1	4614.4
5°	5412.1	5384.4	5450.9	5423.2	5434.3	5301.3	5212.7	5140.7	4930.2	4847.1	4714.1
7.5°	5489.7	5517.4	5511.8	5556.1	5600.4	5650.3	5589.4	5484.1	5273.6	5151.7	5007.7
10°	5489.7	5478.6	5522.9	5583.8	5711.2	5822.0	5988.2	5849.7	5689.1	5545.0	5284.7
12.5°	5389.9	5373.3	5417.6	5545.0	5772.2	5999.3	6182.1	6315.0	6087.9	5971.6	5633.7
15°	5085.3	5068.7	5251.5	5478.6	5777.7	6148.9	6531.1	6747.1	6592.0	6409.2	6032.5
17.5°	4708.6	4730.7	4924.6	5301.3	5777.7	6220.9	6708.3	7179.2	7157.0	6924.4	6531.1
20°	4581.2	4597.8	4791.7	5063.1	5606.0	6270.7	6985.3	7650.1	7783.0	7506.0	6990.9
22.5°	4824.9	4808.3	4824.9	4991.1	5489.7	6226.4	7168.1	8187.4	8425.6	8209.6	7594.7
25°	5655.8	5644.8	5506.3	5251.5	5423.2	6126.7	7262.3	8541.9	9090.3	8890.9	8082.1
27.5°	6874.5	6830.2	6614.2	6082.4	5733.4	6187.6	7417.4	8885.4	9672.0	9444.9	8519.8
30°	8181.9	8076.6	7794.1	7129.3	6536.6	6414.8	7506.0	9140.2	10320.1	10032.1	8902.0
32.5°	9084.8	9223.3	9134.7	8458.8	7550.4	6941.0	7650.1	9461.5	10918.4	10730.0	9555.7
35°	10480.8	10641.4	10270.3	9672.0	8758.0	7777.5	7954.7	9721.8	11837.9	11522.2	10165.0
37.5°	12242.3	12364.2	12098.3	10962.7	9998.8	8807.8	8580.7	10264.7	12630.1	12480.5	10946.1
40°	13128.6	13715.8	13339.1	12314.3	11278.4	10248.1	9616.6	10901.8	14009.4	13887.6	12026.3
42.5°	14352.9	14646.5	14452.6	13693.7	12613.5	11788.1	10896.2	12142.6	15682.4	15682.4	13488.7
45°	15649.1	15660.2	15649.1	15028.7	14070.4	13643.8	12624.5	13699.2	17482.7	17682.1	15239.2
47.5°	16712.7	17045.1	17017.4	16646.2	15903.9	15743.3	14352.9	15471.9	19742.8	20091.8	16945.4
50°	17261.1	17632.3	17743.0	17936.9	17903.7	18241.6	16241.8	17527.0	21692.7	22551.3	19139.0
52.5°	17111.5	17139.2	17820.6	18585.1	19803.7	20751.0	18518.6	19859.1	23975.0	24822.5	20834.1
55°	15887.3	15782.1	17183.6	18058.8	20579.3	22285.4	21670.6	22767.4	25753.2	27043.9	22584.6
57.5°	13200.7	13228.3	14524.6	16302.8	20003.2	22894.8	25038.6	26567.5	28246.0	29547.7	25044.1
60°	9112.5	9079.3	10530.6	12585.8	16618.5	21759.2	26977.4	31492.1	31580.7	33425.4	29459.1
62.5°	5124.0	5135.1	6237.5	7993.5	11627.4	17781.8	26883.2	36721.4	36344.7	37962.3	34477.9
65°	2902.7	2974.7	3733.6	4736.3	6963.2	11937.6	23121.9	38804.3	40017.4	41457.7	37524.6
66°	2454.0	2503.9	3152.0	3910.9	5556.1	9683.1	20811.9	38399.9	41169.6	42266.5	37463.7
67.5°	1900.1	1966.5	2509.4	3102.1	4077.1	6702.8	16751.5	36389.0	41380.1	42022.7	36405.7
70°	1301.8	1346.1	1761.6	2354.3	2786.4	3429.0	10015.4	30085.1	37546.8	38089.7	31641.7
72.5°	914.0	936.2	1235.3	1783.7	2143.8	1961.0	4968.9	21404.7	28733.4	29791.5	24612.0
75°	659.2	681.4	847.5	1279.6	1672.9	1285.2	2276.7	13671.5	17621.2	18452.1	14823.7
77.5°	476.4	504.1	576.1	825.4	1213.2	902.9	1119.0	7140.4	8309.3	8165.2	6376.0
80°	288.1	315.8	426.5	531.8	886.3	637.0	614.9	2980.3	2947.0	2797.5	2005.3
82.5°	132.9	155.1	227.1	360.1	620.4	443.2	293.6	1063.6	930.6	853.1	565.0
85°	38.8	49.9	132.9	271.4	315.8	216.0	177.3	365.6	382.2	326.8	188.3
87.5°	0.0	5.5	60.9	66.5	94.2	72.0	66.5	94.2	177.3	144.0	60.9
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°	4470.4	4470.4	4470.4	4470.4	4470.4	4470.4	4470.4	4470.4	4470.4	4470.4	4470.4
2.5°	4514.7	4475.9	4381.8	4237.7	4110.3	4043.8	3949.7	3866.6	3822.3	3816.7	3811.2
5°	4625.5	4520.2	4293.1	4032.8	3838.9	3628.4	3484.4	3379.1	3279.4	3185.2	3240.6
7.5°	4775.1	4608.9	4237.7	3899.8	3478.8	3207.4	2952.6	2803.0	2714.4	2631.3	2620.2
10°	5007.7	4797.2	4198.9	3589.6	3107.7	2708.8	2448.5	2232.4	2110.6	1966.5	2021.9
12.5°	5323.5	4946.8	4054.9	3307.1	2686.7	2265.7	1894.5	1545.5	1351.6	1202.1	1207.6
15°	5639.2	5146.2	3922.0	2963.6	2304.4	1750.5	1207.6	969.4	914.0	880.8	891.9
17.5°	5949.4	5306.9	3717.0	2614.6	1866.8	1113.4	880.8	830.9	803.2	770.0	770.0
20°	6326.1	5412.1	3462.2	2293.4	1285.2	825.4	753.4	720.1	675.8	631.5	637.0
22.5°	6691.7	5500.7	3168.6	1883.4	864.2	714.6	631.5	587.2	548.4	504.1	504.1
25°	7057.3	5528.4	2786.4	1351.6	698.0	570.6	493.0	432.1	393.3	354.5	360.1
27.5°	7306.6	5356.7	2426.3	864.2	559.5	432.1	343.4	293.6	260.4	221.6	221.6
30°	7450.6	5041.0	2038.5	609.3	421.0	293.6	205.0	155.1	121.9	94.2	88.6
32.5°	7594.7	4786.1	1600.9	465.3	277.0	155.1	77.6	27.7	0.0	0.0	0.0
35°	7882.7	4498.1	1074.7	260.4	94.2	5.5	0.0	0.0	0.0	0.0	0.0
37.5°	8065.5	4099.2	493.0	38.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	8525.3	3899.8	121.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	9273.1	3761.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	10093.0	3705.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	11184.3	3855.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	12336.5	4259.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	13599.5	4642.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	14701.9	5101.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	16729.3	6187.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	20368.8	8320.3	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	24468.0	9904.6	60.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	25969.2	9865.9	105.3	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	25703.3	9323.0	105.3	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	24324.0	8281.6	94.2	11.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	20889.5	6841.3	94.2	16.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	15926.1	5329.0	88.6	22.2	5.5	0.0	0.0	0.0	0.0	0.0	0.0
75°	9611.0	2836.2	72.0	27.7	11.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	3827.8	997.1	55.4	22.2	11.1	0.0	0.0	0.0	0.0	0.0	0.0
80°	1035.9	299.1	33.2	22.2	16.6	5.5	0.0	0.0	0.0	0.0	0.0
82.5°	271.4	110.8	27.7	22.2	11.1	5.5	0.0	0.0	0.0	0.0	0.0
85°	105.3	44.3	22.2	16.6	16.6	11.1	5.5	0.0	0.0	0.0	0.0
87.5°	33.2	16.6	16.6	11.1	11.1	5.5	5.5	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)