

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: P482078

Luminaire Tested: **IFLD-M-SA4C-740-U-T2R-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P482078
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-T2R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens with House Side Shield
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

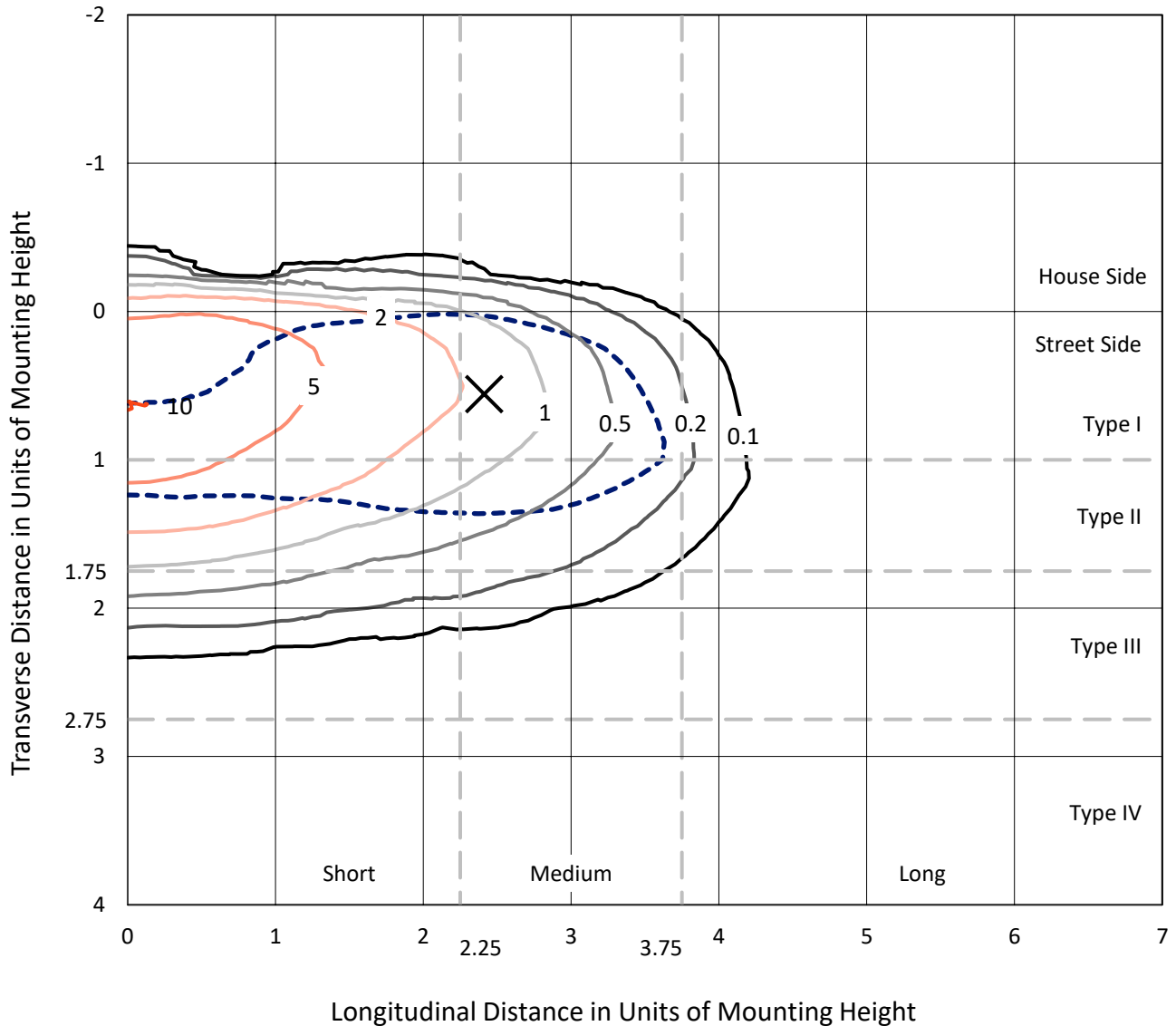
Lumens per Lamp: N/A
Luminaire Lumens: 22353.2 lumens
Efficiency: N/A
Efficacy: 102.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

Input Watts (W): 218.1
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

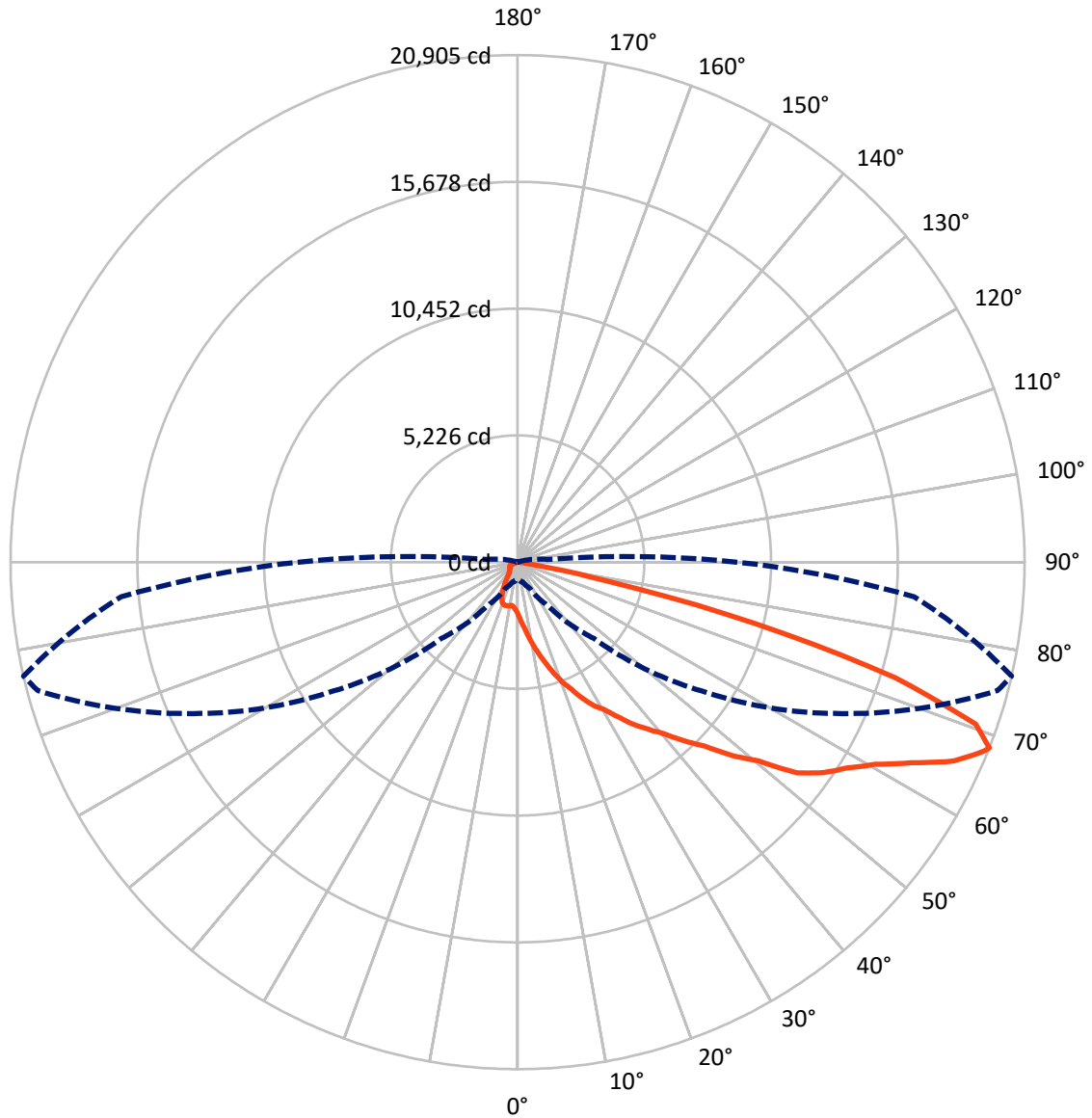
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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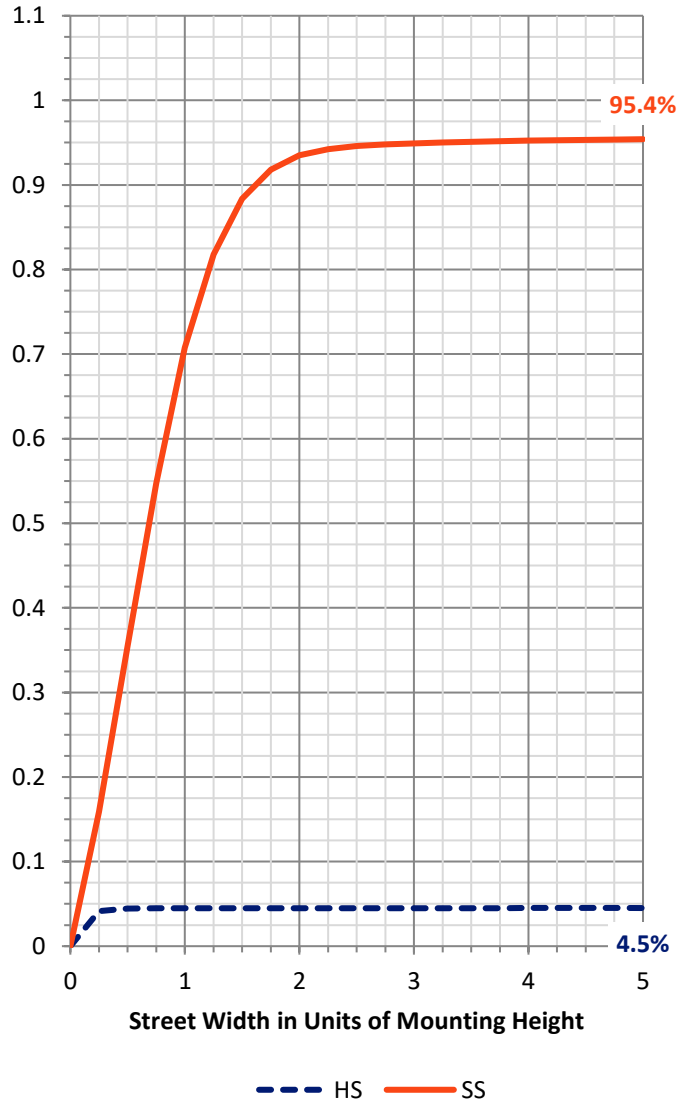
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1013.7	0.0	1013.7
	% Fixture	4.5	0.0	4.5
Street Side	Lumens	21339.5	0.0	21339.5
	% Fixture	95.5	0.0	95.5
Total	Lumens	22353.2	0.0	22353.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	250.1	1.1
10°-20°	922.2	4.1
20°-30°	1787.3	8.0
30°-40°	3115.8	13.9
40°-50°	4563.4	20.4
50°-60°	5361.3	24.0
60°-70°	4527.1	20.3
70°-80°	1754.8	7.9
80°-90°	71.4	0.3
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°	22353.2	100.0
0°-180°	22353.2	100.0

Coefficient of Utilization



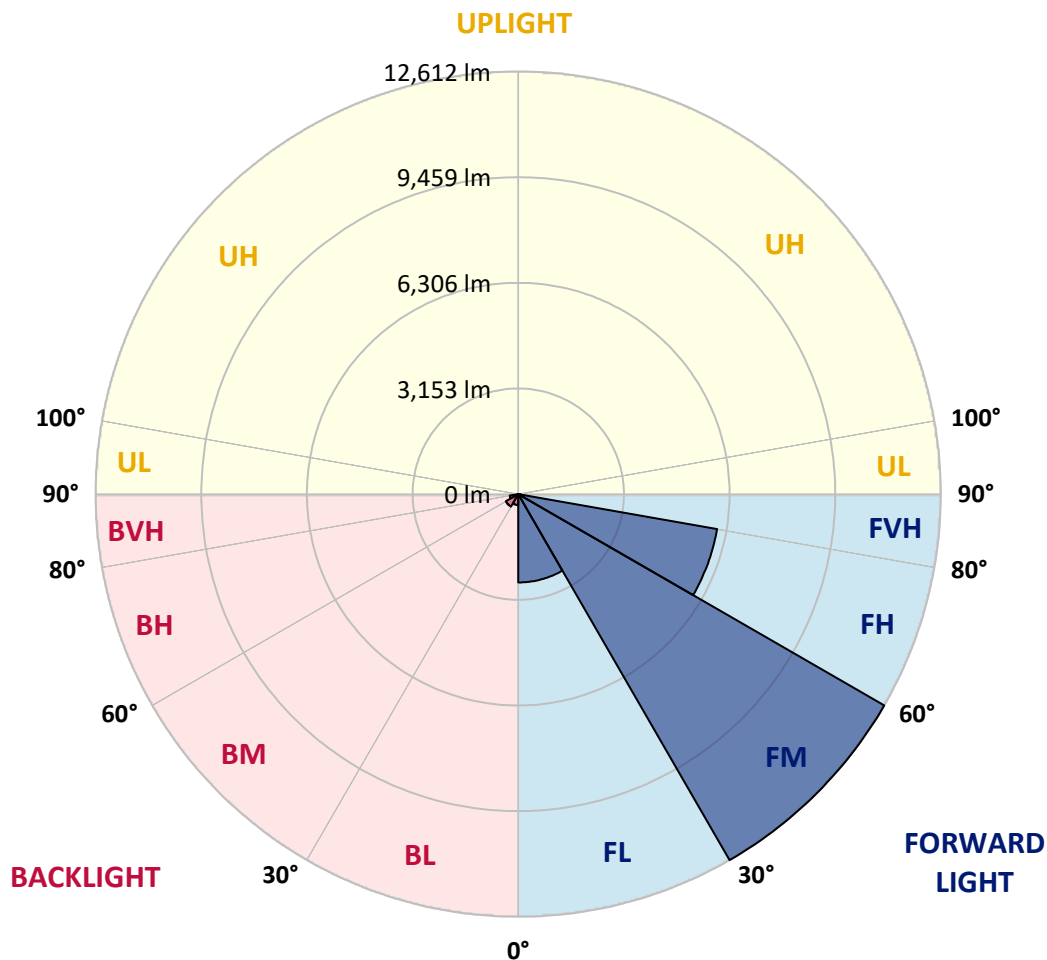
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2635.6	11.8			
FM (30°-60°)	12612.1	56.4			
FH (60°-80°)	6026.0	27.0			G3/7500
FVH (80°-90°)	65.8	0.3			G1/100
BL (0°-30°)	323.9	1.4	B1/500		
BM (30°-60°)	428.3	1.9	B1/1000		
BH (60°-80°)	256.0	1.1	B1/500		G1/500
BVH (80°-90°)	5.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	2140.4	2140.4	2140.4	2140.4	2140.4	2140.4	2140.4	2140.4	2140.4	2140.4	2140.4
2.5°	3252.1	3190.5	3125.8	3107.4	2987.3	2851.8	2725.5	2602.3	2396.0	2399.0	2257.4
5°	4191.4	4114.4	4062.1	4049.7	3861.9	3627.8	3436.9	3088.9	2747.0	2670.1	2411.4
7.5°	4964.4	4939.7	4862.8	4798.1	4659.5	4373.1	4148.3	3649.4	3128.9	3042.7	2599.2
10°	5432.5	5469.4	5503.3	5420.2	5312.4	5106.1	4798.1	4259.1	3563.1	3455.4	2842.5
12.5°	5931.4	5869.8	5891.4	5959.1	5817.4	5771.3	5389.4	4887.4	4071.3	3865.0	3150.5
15°	6060.7	6085.4	6137.7	6334.8	6430.3	6297.9	5968.4	5395.5	4597.9	4311.5	3436.9
17.5°	6147.0	6134.7	6199.3	6495.0	6639.7	6766.0	6559.6	5962.2	5056.8	4801.2	3794.1
20°	6254.8	6187.0	6328.7	6516.5	6852.2	7117.1	7107.8	6531.9	5537.2	5266.2	4148.3
22.5°	6655.1	6602.8	6716.7	6735.2	6969.2	7338.8	7428.1	6997.0	6029.9	5697.3	4530.2
25°	7394.2	7489.7	7354.2	7237.2	7308.0	7551.3	7616.0	7409.6	6525.8	6220.9	4912.0
27.5°	8475.2	8462.9	8194.9	8044.0	7874.7	7843.9	7890.0	7794.6	6916.9	6698.2	5226.2
30°	9636.2	9534.6	9288.2	8924.8	8552.2	8321.2	8256.5	8158.0	7375.7	7058.5	5537.2
32.5°	10560.1	10615.5	10341.4	9867.2	9248.2	8937.1	8626.1	8518.3	7880.8	7600.6	5894.4
35°	11410.1	11336.2	11117.5	10717.2	10162.8	9660.8	9174.3	8943.3	8487.5	8210.3	6288.6
37.5°	12038.3	12130.7	11715.0	11333.1	10781.8	10366.1	9888.7	9383.7	9112.7	8743.1	6769.1
40°	12632.7	12488.0	12207.7	11856.6	11345.4	11028.2	10714.1	9925.7	9777.9	9300.5	7311.1
42.5°	12528.0	12537.2	12383.3	12099.9	11730.4	11548.7	11440.9	10584.7	10381.5	10076.6	7840.8
45°	12099.9	12136.9	12189.2	12050.6	12081.4	11899.7	12189.2	11342.3	11142.2	10818.8	8450.5
47.5°	11628.7	11690.3	11678.0	11930.5	12216.9	12278.5	13002.3	12183.1	12096.8	11918.2	9294.4
50°	10846.5	10871.1	11108.3	11567.1	11958.3	12601.9	13612.0	13100.8	13233.2	12882.2	10298.3
52.5°	9509.9	9599.3	10209.0	10865.0	11653.4	12765.1	14024.7	14465.1	14800.8	14440.5	11262.3
55°	7819.2	7942.4	8542.9	9771.7	10926.6	12518.8	14400.4	15185.7	15866.3	15321.2	11847.4
57.5°	6291.7	6304.0	6843.0	8111.8	9894.9	12035.3	14591.4	15536.8	16451.5	16014.2	12561.9
60°	4795.0	4745.7	5229.2	6328.7	8158.0	10846.5	14114.0	15715.4	17181.3	16928.8	13421.1
62.5°	3085.8	3008.8	3535.4	4607.1	6371.8	8866.3	13159.3	15718.5	18320.8	18225.3	14859.3
65°	1527.5	1475.1	1927.9	2824.0	4410.1	6781.4	11798.1	15660.0	19712.8	19774.4	16260.5
67.5°	806.9	825.3	970.1	1432.0	2543.8	4791.9	9747.1	14973.2	20424.2	20769.1	16599.3
68°	742.2	748.4	862.3	1191.8	2208.1	4443.9	9260.5	14773.1	20479.6	20904.6	16411.4
70°	603.6	612.8	652.9	748.4	1194.9	2891.8	7144.8	13073.1	19645.1	20033.1	14856.2
72.5°	480.4	508.1	532.8	572.8	702.2	1518.3	4443.9	10187.5	16229.7	16272.8	11564.1
75°	366.5	388.0	437.3	471.2	548.2	834.6	2115.7	6211.6	10649.4	10125.9	6812.2
77.5°	283.3	301.8	323.4	369.6	458.9	563.6	646.7	2636.2	4524.0	3723.3	1924.8
80°	169.4	181.7	252.5	289.5	400.4	381.9	255.6	733.0	917.7	723.7	351.1
82.5°	98.5	107.8	144.7	221.7	280.2	206.3	150.9	227.9	224.8	197.1	117.0
85°	3.1	6.2	80.1	132.4	98.5	55.4	92.4	95.5	80.1	73.9	52.4
87.5°	0.0	3.1	21.6	18.5	21.6	12.3	18.5	24.6	30.8	27.7	21.6
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°	2140.4	2140.4	2140.4	2140.4	2140.4	2140.4	2140.4	2140.4	2140.4	2140.4	2140.4
2.5°	2161.9	2094.2	1943.3	1829.3	1706.1	1632.2	1558.3	1512.1	1487.5	1472.1	1484.4
5°	2217.3	2075.7	1832.4	1616.8	1475.1	1379.7	1284.2	1234.9	1188.7	1164.1	1179.5
7.5°	2340.5	2128.0	1724.6	1490.5	1324.2	1176.4	1056.3	960.8	905.4	856.1	865.4
10°	2491.4	2158.8	1727.7	1416.6	1176.4	942.4	773.0	652.9	585.1	542.0	538.9
12.5°	2645.4	2278.9	1740.0	1342.7	994.7	708.3	508.1	418.8	378.8	357.2	357.2
15°	2879.5	2386.7	1709.2	1207.2	754.5	461.9	348.0	317.2	301.8	283.3	286.4
17.5°	3082.7	2559.2	1693.8	1004.0	517.4	332.6	289.5	255.6	240.2	221.7	221.7
20°	3356.8	2667.0	1610.7	776.1	357.2	277.2	234.1	203.3	178.6	163.2	166.3
22.5°	3606.3	2750.1	1462.8	529.7	274.1	218.7	172.5	141.7	120.1	101.6	104.7
25°	3877.3	2833.3	1247.3	326.4	194.0	135.5	92.4	67.8	46.2	33.9	33.9
27.5°	4071.3	2857.9	967.0	194.0	117.0	61.6	21.6	3.1	0.0	0.0	0.0
30°	4268.4	2867.1	668.3	104.7	46.2	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	4493.2	2864.1	418.8	55.4	3.1	0.0	0.0	0.0	0.0	0.0	0.0
35°	4665.7	2811.7	200.2	6.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	4927.4	2734.7	61.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	5226.2	2596.1	12.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	5494.1	2454.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	5799.0	2278.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	6334.8	2205.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	7033.9	2146.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	7465.1	1974.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	7689.9	1795.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	8022.5	1709.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	8515.2	1715.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	9285.1	1801.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	9710.1	1715.4	12.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	9349.8	1373.5	58.5	15.4	3.1	0.0	0.0	0.0	0.0	0.0	0.0
68°	9038.8	1262.7	58.5	15.4	3.1	0.0	0.0	0.0	0.0	0.0	0.0
70°	7471.2	822.3	55.4	15.4	6.2	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	5441.7	455.8	46.2	12.3	6.2	0.0	0.0	0.0	0.0	0.0	0.0
75°	3165.9	227.9	33.9	12.3	6.2	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	825.3	113.9	27.7	15.4	9.2	3.1	0.0	0.0	0.0	0.0	0.0
80°	163.2	73.9	24.6	18.5	12.3	6.2	0.0	0.0	0.0	0.0	0.0
82.5°	77.0	52.4	24.6	18.5	15.4	9.2	3.1	0.0	0.0	0.0	0.0
85°	40.0	24.6	24.6	18.5	18.5	12.3	6.2	0.0	0.0	0.0	0.0
87.5°	18.5	9.2	9.2	9.2	9.2	6.2	3.1	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)