

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: P481961

Luminaire Tested: **IFLD-M-SA4C-727-U-T2R-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481961
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-727-U-T2R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R
distribution lens with House Side Shield
Light Source: (64) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

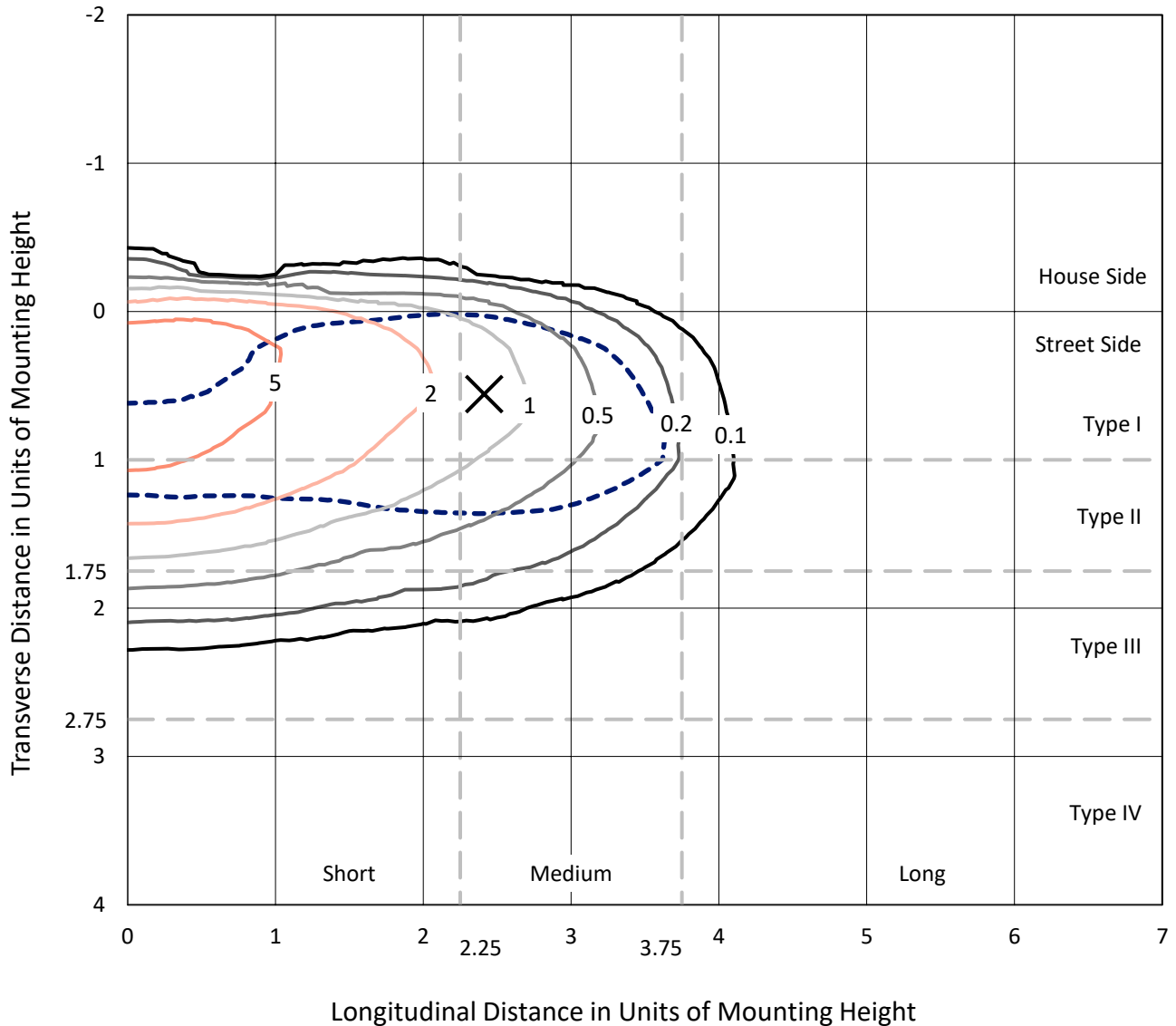
Lumens per Lamp: N/A
Luminaire Lumens: 18694 lumens
Efficiency: N/A
Efficacy: 85.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

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

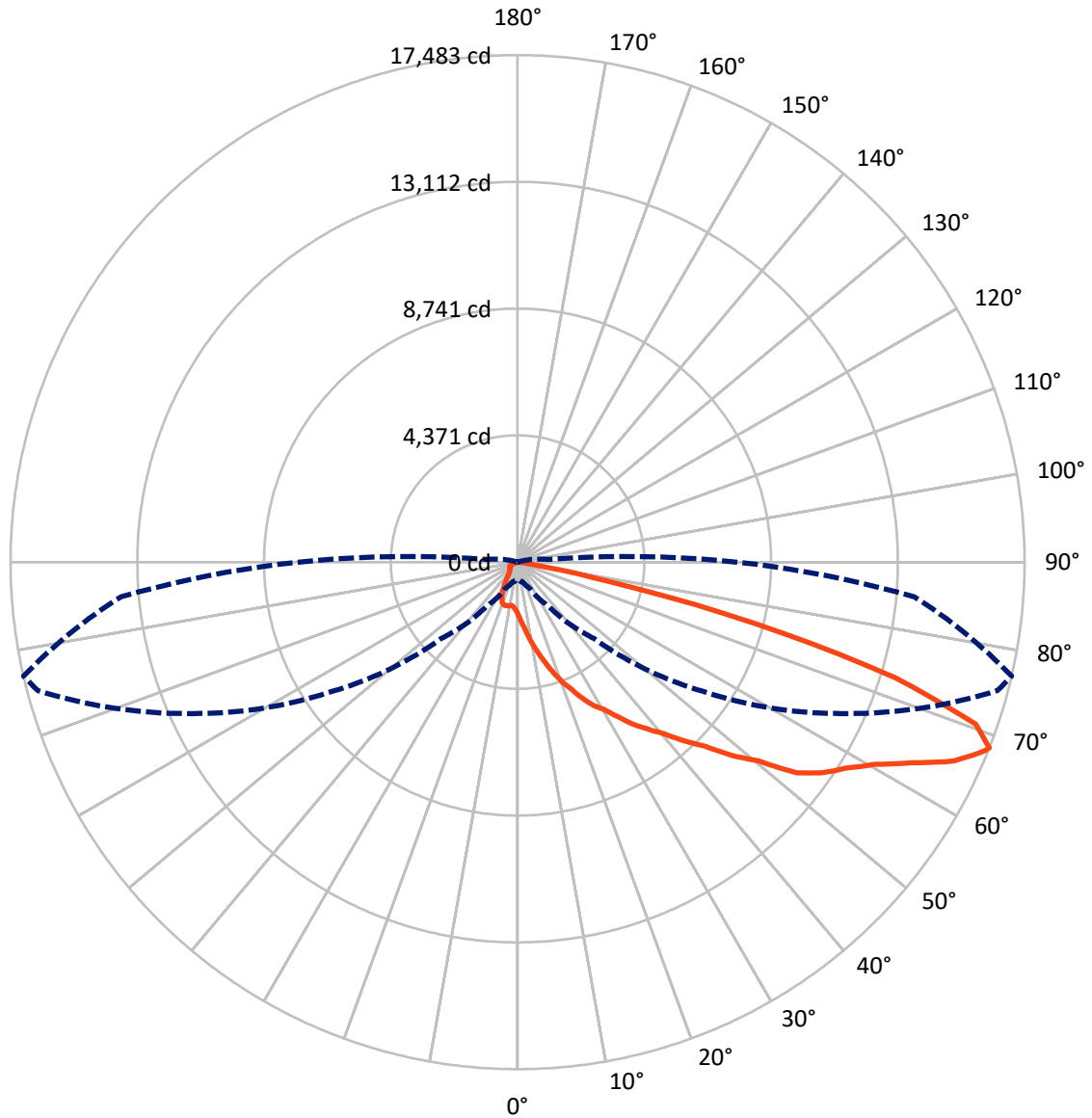
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 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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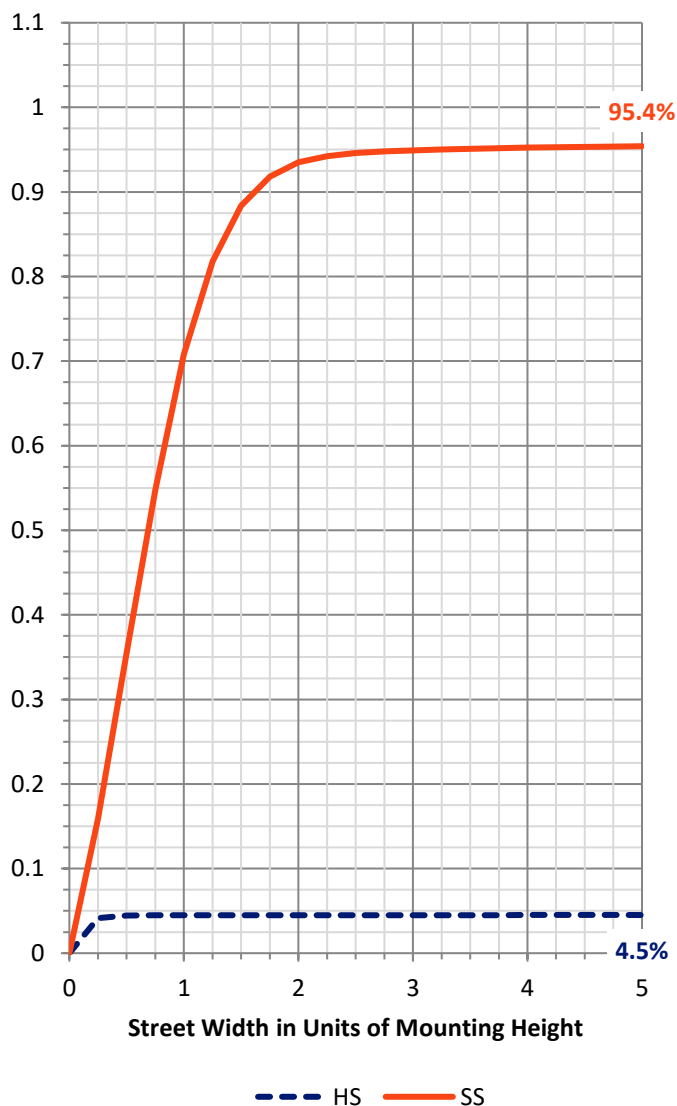
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	847.8	0.0	847.8
	% Fixture	4.5	0.0	4.5
Street Side	Lumens	17846.2	0.0	17846.2
	% Fixture	95.5	0.0	95.5
Total	Lumens	18694.0	0.0	18694.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.1	1.1
10°-20°	771.2	4.1
20°-30°	1494.7	8.0
30°-40°	2605.7	13.9
40°-50°	3816.4	20.4
50°-60°	4483.6	24.0
60°-70°	3786.0	20.3
70°-80°	1467.6	7.9
80°-90°	59.7	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°	18694.0	100.0
0°-180°	18694.0	100.0

Coefficient of Utilization

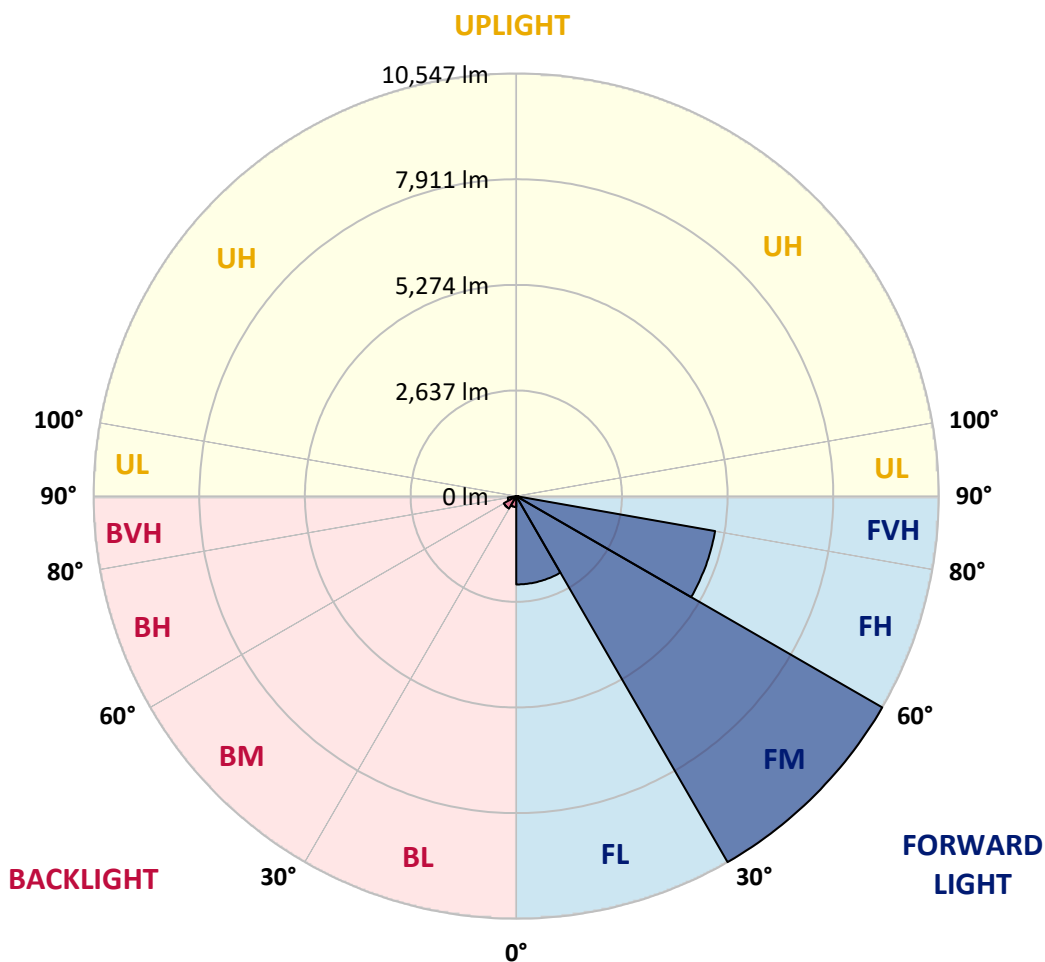


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2204.2	11.8			
FM (30°-60°)	10547.5	56.4			
FH (60°-80°)	5039.5	27.0			G3/7500
FVH (80°-90°)	55.1	0.3			G1/100
BL (0°-30°)	270.9	1.4	B1/500		
BM (30°-60°)	358.2	1.9	B1/1000		
BH (60°-80°)	214.1	1.1	B1/500		G1/500
BVH (80°-90°)	4.6	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°	1790.0	1790.0	1790.0	1790.0	1790.0	1790.0	1790.0	1790.0	1790.0	1790.0	1790.0
2.5°	2719.7	2668.2	2614.1	2598.7	2498.2	2384.9	2279.3	2176.3	2003.7	2006.3	1887.8
5°	3505.3	3440.9	3397.1	3386.8	3229.7	3033.9	2874.3	2583.2	2297.4	2233.0	2016.6
7.5°	4151.7	4131.1	4066.7	4012.6	3896.7	3657.2	3469.2	3052.0	2616.7	2544.6	2173.7
10°	4543.2	4574.1	4602.4	4532.9	4442.7	4270.2	4012.6	3561.9	2979.9	2889.7	2377.2
12.5°	4960.4	4908.9	4926.9	4983.6	4865.1	4826.5	4507.1	4087.3	3404.8	3232.3	2634.7
15°	5068.6	5089.2	5133.0	5297.8	5377.7	5266.9	4991.3	4512.3	3845.2	3605.7	2874.3
17.5°	5140.7	5130.4	5184.5	5431.7	5552.8	5658.4	5485.8	4986.2	4229.0	4015.2	3173.0
20°	5230.9	5174.2	5292.7	5449.8	5730.5	5952.0	5944.3	5462.6	4630.8	4404.1	3469.2
22.5°	5565.7	5521.9	5617.2	5632.6	5828.4	6137.4	6212.1	5851.6	5042.8	4764.7	3788.6
25°	6183.8	6263.6	6150.3	6052.4	6111.7	6315.1	6369.2	6196.7	5457.5	5202.5	4107.9
27.5°	7087.8	7077.5	6853.4	6727.2	6585.6	6559.8	6598.4	6518.6	5784.6	5601.7	4370.6
30°	8058.8	7973.8	7767.7	7463.8	7152.2	6959.0	6904.9	6822.5	6168.3	5903.1	4630.8
32.5°	8831.4	8877.8	8648.6	8251.9	7734.2	7474.1	7214.0	7123.9	6590.7	6356.4	4929.5
35°	9542.3	9480.4	9297.6	8962.8	8499.2	8079.4	7672.4	7479.3	7098.1	6866.3	5259.2
37.5°	10067.7	10144.9	9797.2	9477.9	9016.8	8669.2	8270.0	7847.6	7620.9	7311.9	5661.0
40°	10564.7	10443.7	10209.3	9915.7	9488.2	9222.9	8960.2	8300.9	8177.2	7778.0	6114.3
42.5°	10477.2	10484.9	10356.1	10119.2	9810.1	9658.2	9568.0	8852.0	8682.0	8427.1	6557.2
45°	10119.2	10150.1	10193.9	10078.0	10103.7	9951.8	10193.9	9485.6	9318.2	9047.8	7067.2
47.5°	9725.1	9776.6	9766.3	9977.5	10217.0	10268.5	10873.8	10188.7	10116.6	9967.2	7772.9
50°	9070.9	9091.5	9289.9	9673.6	10000.7	10539.0	11383.7	10956.2	11067.0	10773.3	8612.5
52.5°	7953.2	8027.9	8537.8	9086.4	9745.7	10675.5	11728.9	12097.2	12377.9	12076.6	9418.6
55°	6539.2	6642.2	7144.5	8172.1	9137.9	10469.4	12043.1	12699.8	13269.0	12813.1	9908.0
57.5°	5261.8	5272.1	5722.8	6783.9	8275.1	10065.1	12202.8	12993.4	13758.4	13392.6	10505.5
60°	4010.1	3968.9	4373.2	5292.7	6822.5	9070.9	11803.5	13142.8	14368.8	14157.6	11224.1
62.5°	2580.7	2516.3	2956.7	3853.0	5328.7	7414.9	11005.1	13145.4	15321.7	15241.8	12426.8
65°	1277.5	1233.7	1612.3	2361.7	3688.1	5671.3	9866.8	13096.5	16485.8	16537.3	13598.7
67.5°	674.8	690.2	811.3	1197.6	2127.4	4007.5	8151.5	12522.1	17080.8	17369.2	13882.0
68°	620.7	625.8	721.1	996.7	1846.6	3716.5	7744.5	12354.7	17127.1	17482.5	13724.9
70°	504.8	512.5	546.0	625.8	999.3	2418.4	5975.2	10933.0	16429.2	16753.7	12424.2
72.5°	401.8	425.0	445.6	479.0	587.2	1269.7	3716.5	8519.8	13572.9	13609.0	9671.0
75°	306.5	324.5	365.7	394.1	458.4	698.0	1769.4	5194.8	8906.1	8468.3	5697.0
77.5°	236.9	252.4	270.4	309.1	383.8	471.3	540.9	2204.6	3783.4	3113.8	1609.7
80°	141.7	152.0	211.2	242.1	334.8	319.4	213.8	613.0	767.5	605.2	293.6
82.5°	82.4	90.1	121.0	185.4	234.4	172.6	126.2	190.6	188.0	164.8	97.9
85°	2.6	5.2	67.0	110.7	82.4	46.4	77.3	79.8	67.0	61.8	43.8
87.5°	0.0	2.6	18.0	15.5	18.0	10.3	15.5	20.6	25.8	23.2	18.0
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°	1790.0	1790.0	1790.0	1790.0	1790.0	1790.0	1790.0	1790.0	1790.0	1790.0	1790.0
2.5°	1808.0	1751.3	1625.1	1529.9	1426.8	1365.0	1303.2	1264.6	1244.0	1231.1	1241.4
5°	1854.4	1735.9	1532.4	1352.1	1233.7	1153.8	1074.0	1032.8	994.1	973.5	986.4
7.5°	1957.4	1779.7	1442.3	1246.5	1107.5	983.8	883.4	803.6	757.2	716.0	723.7
10°	2083.6	1805.4	1444.9	1184.7	983.8	788.1	646.5	546.0	489.3	453.3	450.7
12.5°	2212.4	1905.9	1455.2	1122.9	831.9	592.4	425.0	350.3	316.8	298.8	298.8
15°	2408.1	1996.0	1429.4	1009.6	631.0	386.3	291.0	265.3	252.4	236.9	239.5
17.5°	2578.1	2140.2	1416.5	839.6	432.7	278.2	242.1	213.8	200.9	185.4	185.4
20°	2807.3	2230.4	1347.0	649.0	298.8	231.8	195.7	170.0	149.4	136.5	139.1
22.5°	3015.9	2299.9	1223.4	443.0	229.2	182.9	144.2	118.5	100.4	85.0	87.6
25°	3242.6	2369.5	1043.1	273.0	162.3	113.3	77.3	56.7	38.6	28.3	28.3
27.5°	3404.8	2390.1	808.7	162.3	97.9	51.5	18.0	2.6	0.0	0.0	0.0
30°	3569.7	2397.8	558.9	87.6	38.6	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	3757.7	2395.2	350.3	46.4	2.6	0.0	0.0	0.0	0.0	0.0	0.0
35°	3901.9	2351.4	167.4	5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	4120.8	2287.0	51.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	4370.6	2171.2	10.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	4594.7	2052.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	4849.7	1905.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	5297.8	1844.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	5882.5	1795.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	6243.0	1650.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	6431.0	1501.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	6709.2	1429.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	7121.3	1434.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	7765.2	1506.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	8120.6	1434.6	10.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	7819.2	1148.7	48.9	12.9	2.6	0.0	0.0	0.0	0.0	0.0	0.0
68°	7559.1	1056.0	48.9	12.9	2.6	0.0	0.0	0.0	0.0	0.0	0.0
70°	6248.2	687.7	46.4	12.9	5.2	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	4550.9	381.2	38.6	10.3	5.2	0.0	0.0	0.0	0.0	0.0	0.0
75°	2647.6	190.6	28.3	10.3	5.2	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	690.2	95.3	23.2	12.9	7.7	2.6	0.0	0.0	0.0	0.0	0.0
80°	136.5	61.8	20.6	15.5	10.3	5.2	0.0	0.0	0.0	0.0	0.0
82.5°	64.4	43.8	20.6	15.5	12.9	7.7	2.6	0.0	0.0	0.0	0.0
85°	33.5	20.6	20.6	15.5	15.5	10.3	5.2	0.0	0.0	0.0	0.0
87.5°	15.5	7.7	7.7	7.7	7.7	5.2	2.6	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)