

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: P482048

Luminaire Tested: **IFLD-L-SA8B-735-U-T2R-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P482048
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-735-U-T2R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens with House Side Shield
Light Source: (128) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

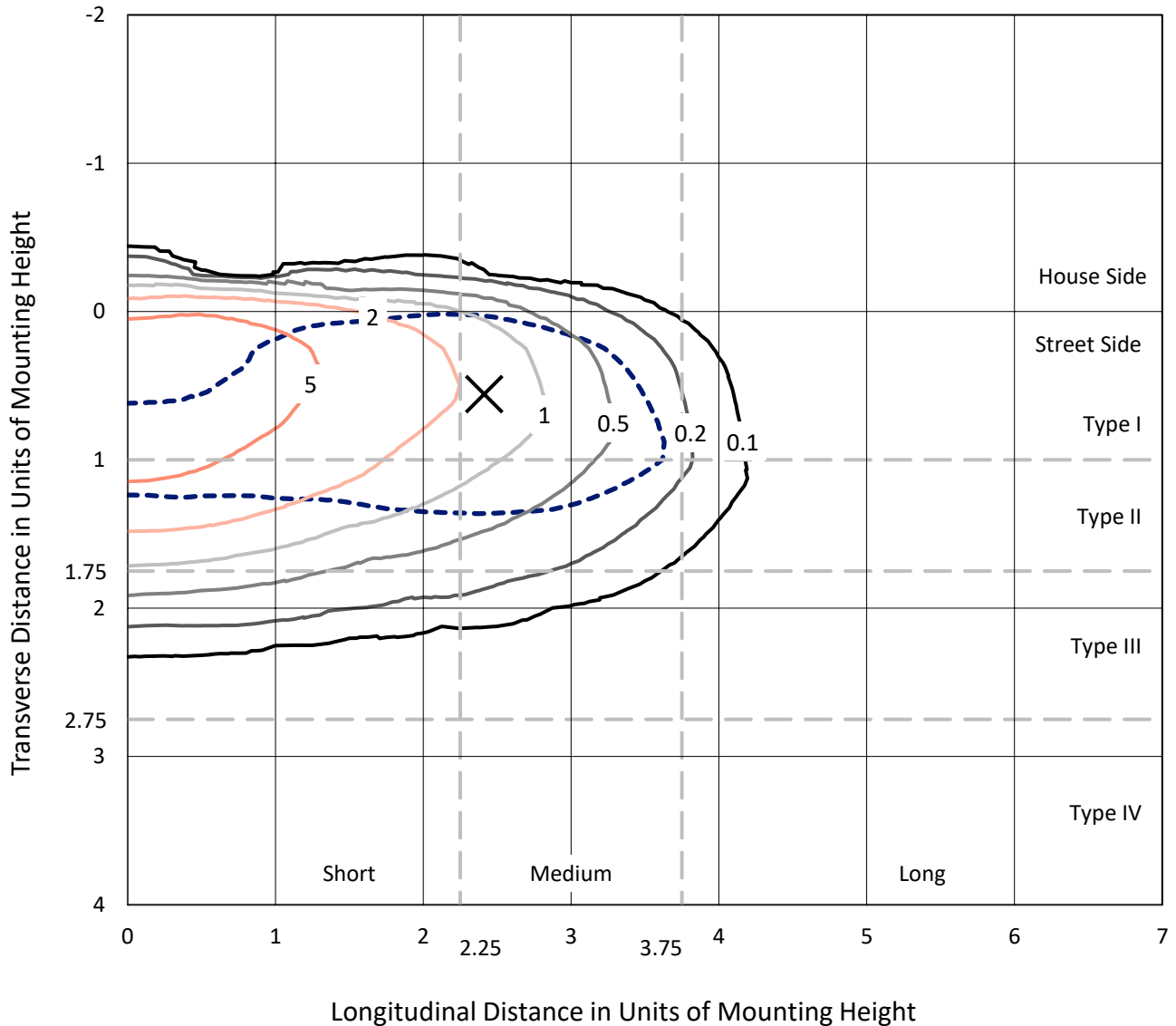
Lumens per Lamp: N/A
Luminaire Lumens: 31559.2 lumens
Efficiency: N/A
Efficacy: 98.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G4

Input Watts (W): 320
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

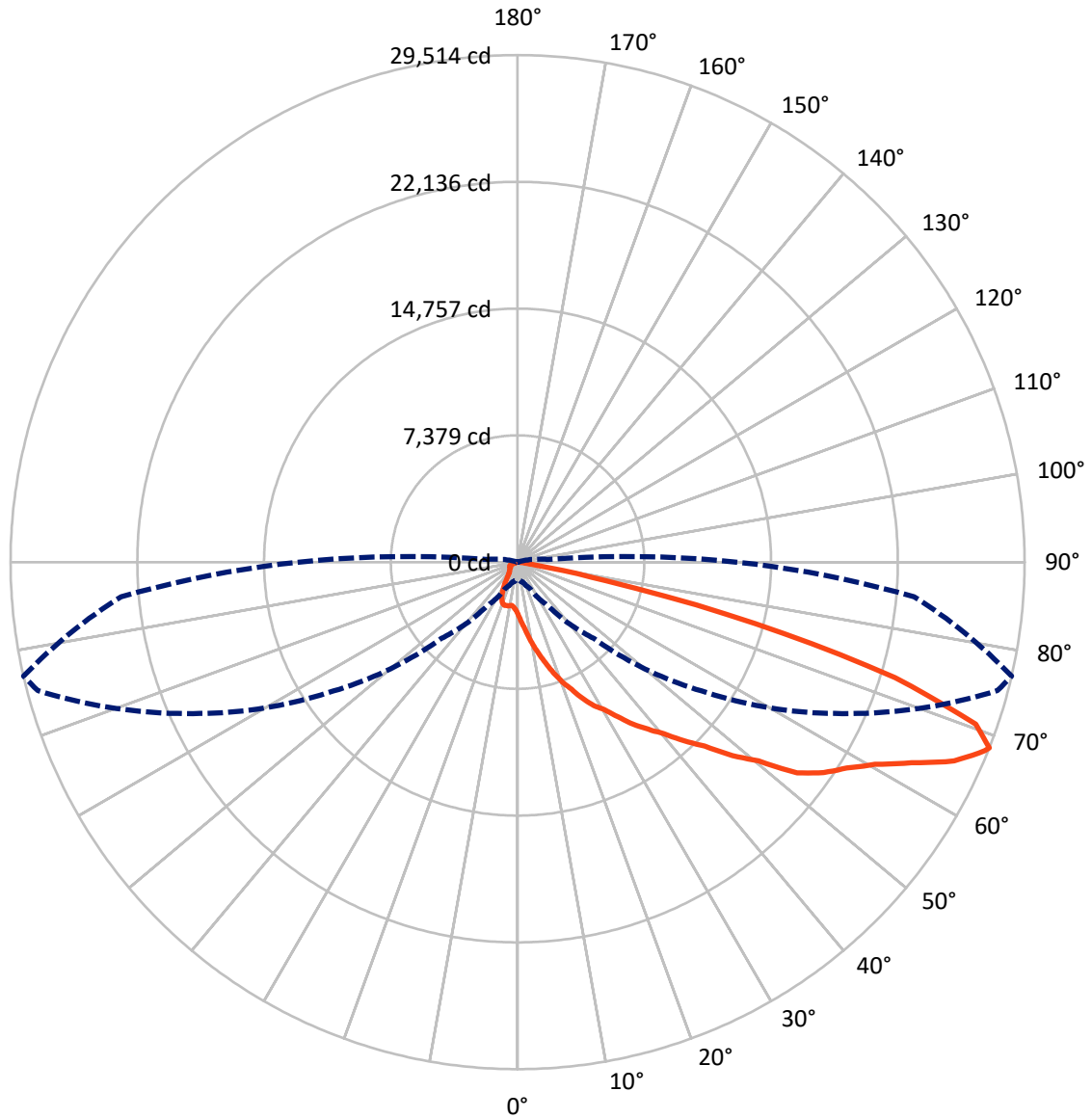
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.9 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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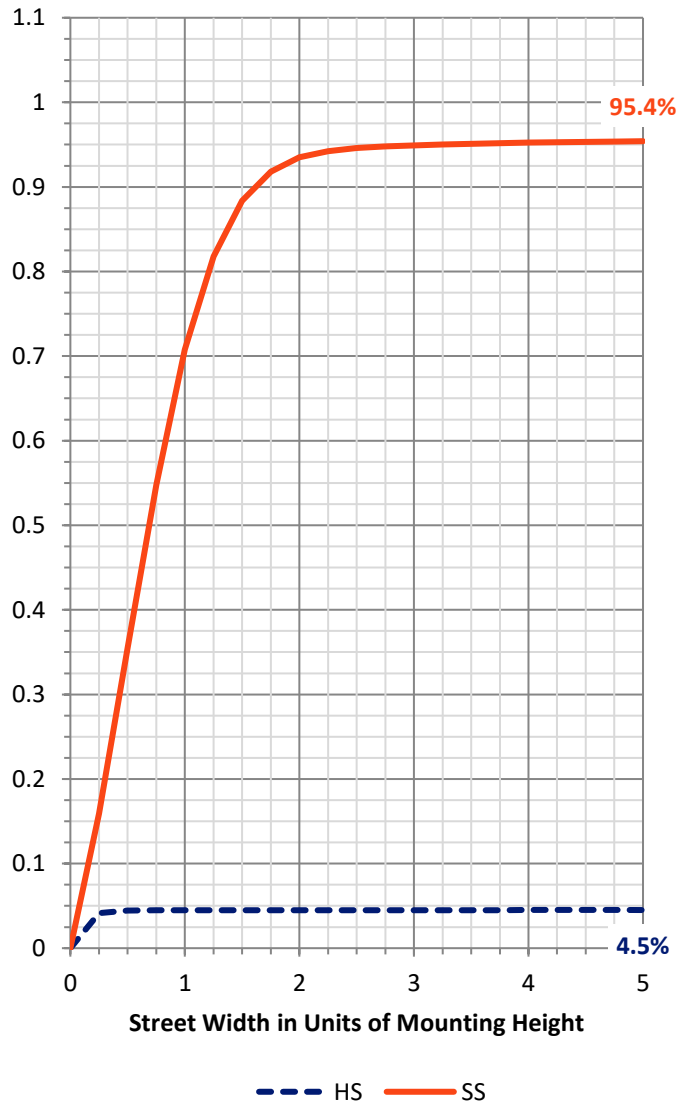
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1431.2	0.0	1431.2
	% Fixture	4.5	0.0	4.5
Street Side	Lumens	30128.1	0.0	30128.1
	% Fixture	95.5	0.0	95.5
Total	Lumens	31559.2	0.0	31559.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	353.0	1.1
10°-20°	1302.0	4.1
20°-30°	2523.3	8.0
30°-40°	4399.0	13.9
40°-50°	6442.8	20.4
50°-60°	7569.3	24.0
60°-70°	6391.6	20.3
70°-80°	2477.5	7.9
80°-90°	100.7	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°	31559.2	100.0
0°-180°	31559.2	100.0

Coefficient of Utilization



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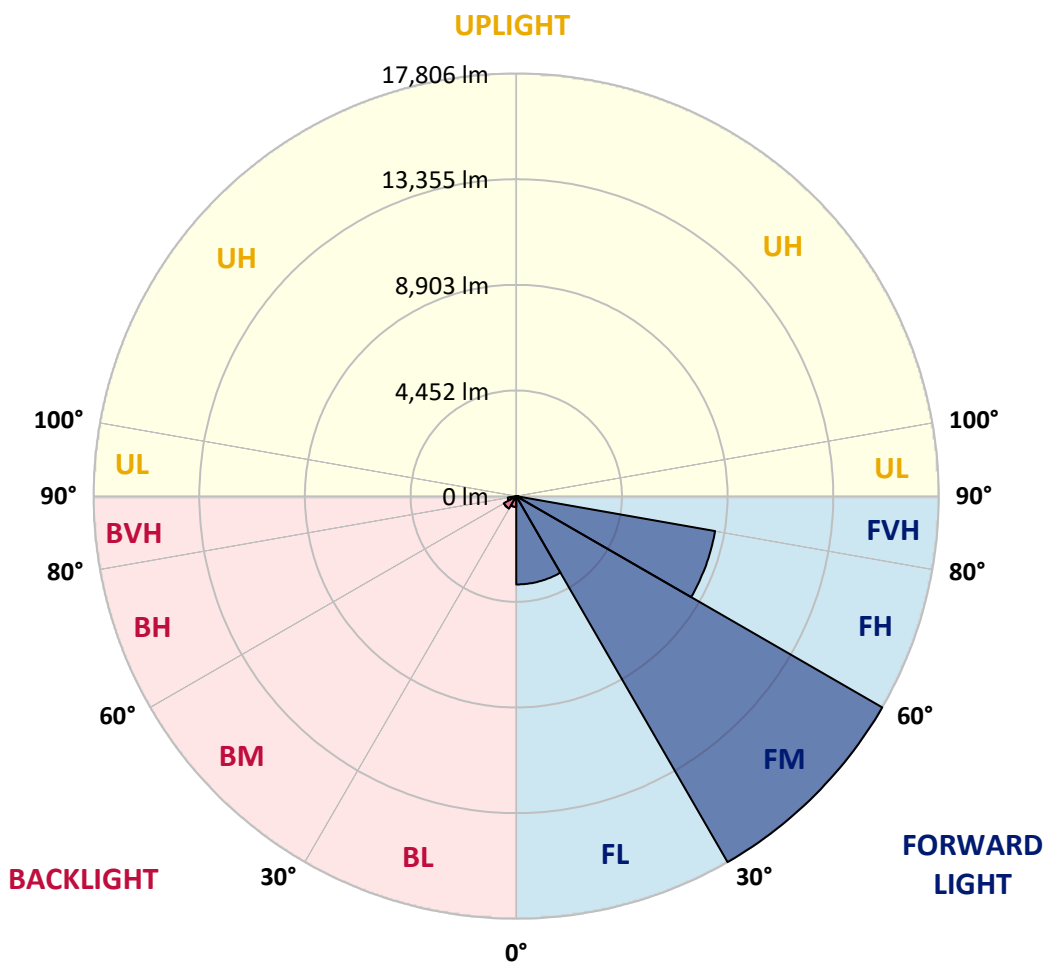
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3721.1	11.8			
FM	(30°-60°)	17806.3	56.4			
FH	(60°-80°)	8507.7	27.0			G4/12000
FVH	(80°-90°)	92.9	0.3			G1/100
BL	(0°-30°)	457.3	1.4	B1/500		
BM	(30°-60°)	604.8	1.9	B1/1000		
BH	(60°-80°)	361.4	1.1	B1/500		G1/500
BVH	(80°-90°)	7.8	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-G4

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	3021.8	3021.8	3021.8	3021.8	3021.8	3021.8	3021.8	3021.8	3021.8	3021.8	3021.8
2.5°	4591.5	4504.5	4413.2	4387.1	4217.5	4026.2	3848.0	3674.0	3382.7	3387.1	3187.1
5°	5917.6	5808.9	5735.0	5717.6	5452.4	5121.9	4852.3	4361.0	3878.4	3769.7	3404.5
7.5°	7008.9	6974.2	6865.5	6774.2	6578.5	6174.1	5856.7	5152.4	4417.5	4295.8	3669.7
10°	7669.8	7722.0	7769.8	7652.4	7500.3	7208.9	6774.2	6013.3	5030.6	4878.4	4013.2
12.5°	8374.2	8287.2	8317.7	8413.3	8213.3	8148.1	7609.0	6900.2	5748.0	5456.7	4448.0
15°	8556.8	8591.6	8665.5	8943.8	9078.6	8891.6	8426.4	7617.7	6491.5	6087.2	4852.3
17.5°	8678.6	8661.2	8752.5	9169.9	9374.2	9552.5	9261.2	8417.7	7139.4	6778.5	5356.7
20°	8830.7	8735.1	8935.1	9200.3	9674.3	10048.2	10035.1	9222.1	7817.7	7435.0	5856.7
22.5°	9396.0	9322.1	9482.9	9509.0	9839.5	10361.2	10487.3	9878.6	8513.3	8043.8	6395.9
25°	10439.5	10574.3	10383.0	10217.8	10317.8	10661.2	10752.6	10461.2	9213.4	8782.9	6935.0
27.5°	11965.6	11948.2	11570.0	11356.9	11117.8	11074.3	11139.5	11004.7	9765.6	9456.9	7378.5
30°	13604.8	13461.3	13113.5	12600.4	12074.3	11748.2	11656.9	11517.8	10413.4	9965.6	7817.7
32.5°	14909.2	14987.5	14600.5	13930.9	13057.0	12617.8	12178.7	12026.5	11126.5	10730.8	8322.0
35°	16109.3	16004.9	15696.2	15131.0	14348.3	13639.6	12952.6	12626.5	11983.0	11591.7	8878.6
37.5°	16996.2	17126.7	16539.7	16000.6	15222.3	14635.3	13961.4	13248.3	12865.7	12343.9	9556.9
40°	17835.4	17631.1	17235.4	16739.7	16018.0	15570.1	15126.6	14013.5	13804.8	13130.9	10322.1
42.5°	17687.6	17700.6	17483.2	17083.2	16561.5	16304.9	16152.7	14944.0	14657.0	14226.6	11070.0
45°	17083.2	17135.4	17209.3	17013.6	17057.1	16800.6	17209.3	16013.6	15731.0	15274.4	11930.9
47.5°	16418.0	16504.9	16487.5	16844.1	17248.4	17335.4	18357.2	17200.6	17078.9	16826.7	13122.2
50°	15313.6	15348.4	15683.2	16331.0	16883.2	17791.9	19218.1	18496.3	18683.3	18187.6	14539.6
52.5°	13426.6	13552.7	14413.5	15339.7	16452.8	18022.4	19800.7	20422.5	20896.4	20387.7	15900.6
55°	11039.5	11213.4	12061.3	13796.1	15426.6	17674.5	20331.1	21439.9	22400.8	21631.2	16726.7
57.5°	8882.9	8900.3	9661.2	11452.6	13970.1	16991.9	20600.7	21935.6	23226.9	22609.5	17735.4
60°	6769.8	6700.2	7382.9	8935.1	11517.8	15313.6	19926.8	22187.7	24257.4	23900.8	18948.5
62.5°	4356.7	4248.0	4991.5	6504.6	8996.0	12517.8	18578.9	22192.1	25866.1	25731.3	20979.0
65°	2156.6	2082.7	2721.8	3987.1	6226.3	9574.2	16657.1	22109.5	27831.4	27918.4	22957.3
67.5°	1139.2	1165.3	1369.6	2021.8	3591.4	6765.5	13761.4	21139.9	28835.8	29322.8	23435.6
68°	1047.9	1056.6	1217.4	1682.7	3117.5	6274.1	13074.4	20857.3	28914.1	29514.1	23170.4
70°	852.2	865.2	921.8	1056.6	1687.0	4082.8	10087.3	18457.2	27735.8	28283.6	20974.7
72.5°	678.3	717.4	752.2	808.7	991.3	2143.6	6274.1	14383.1	22913.8	22974.7	16326.7
75°	517.4	547.8	617.4	665.2	773.9	1178.3	2987.1	8769.9	15035.3	14296.2	9617.7
77.5°	400.0	426.1	456.5	521.8	647.8	795.7	913.1	3721.9	6387.2	5256.7	2717.5
80°	239.1	256.5	356.5	408.7	565.2	539.1	360.9	1034.8	1295.7	1021.8	495.7
82.5°	139.1	152.2	204.4	313.1	395.7	291.3	213.1	321.8	317.4	278.3	165.2
85°	4.3	8.7	113.0	187.0	139.1	78.3	130.4	134.8	113.0	104.4	73.9
87.5°	0.0	4.3	30.4	26.1	30.4	17.4	26.1	34.8	43.5	39.1	30.4
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°	3021.8	3021.8	3021.8	3021.8	3021.8	3021.8	3021.8	3021.8	3021.8	3021.8	3021.8
2.5°	3052.3	2956.6	2743.6	2582.7	2408.8	2304.4	2200.1	2134.9	2100.1	2078.3	2095.7
5°	3130.5	2930.5	2587.0	2282.7	2082.7	1947.9	1813.1	1743.5	1678.3	1643.5	1665.3
7.5°	3304.5	3004.5	2434.9	2104.4	1869.6	1660.9	1491.4	1356.6	1278.3	1208.7	1221.8
10°	3517.5	3047.9	2439.2	2000.1	1660.9	1330.5	1091.3	921.8	826.1	765.2	760.9
12.5°	3734.9	3217.5	2456.6	1895.7	1404.4	1000.0	717.4	591.3	534.8	504.4	504.4
15°	4065.4	3369.7	2413.1	1704.4	1065.3	652.2	491.3	447.8	426.1	400.0	404.4
17.5°	4352.3	3613.2	2391.4	1417.4	730.5	469.6	408.7	360.9	339.1	313.1	313.1
20°	4739.3	3765.3	2274.0	1095.7	504.4	391.3	330.4	287.0	252.2	230.4	234.8
22.5°	5091.5	3882.7	2065.3	747.9	387.0	308.7	243.5	200.0	169.6	143.5	147.8
25°	5474.1	4000.1	1760.9	460.9	273.9	191.3	130.4	95.7	65.2	47.8	47.8
27.5°	5748.0	4034.9	1365.3	273.9	165.2	87.0	30.4	4.3	0.0	0.0	0.0
30°	6026.3	4048.0	943.5	147.8	65.2	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	6343.7	4043.6	591.3	78.3	4.3	0.0	0.0	0.0	0.0	0.0	0.0
35°	6587.2	3969.7	282.6	8.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	6956.8	3861.0	87.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	7378.5	3665.3	17.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	7756.8	3465.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	8187.2	3217.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	8943.8	3113.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	9930.8	3030.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	10539.5	2787.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	10856.9	2534.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	11326.5	2413.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	12022.2	2421.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	13109.2	2543.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	13709.2	2421.8	17.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	13200.5	1939.2	82.6	21.7	4.3	0.0	0.0	0.0	0.0	0.0	0.0
68°	12761.3	1782.7	82.6	21.7	4.3	0.0	0.0	0.0	0.0	0.0	0.0
70°	10548.2	1160.9	78.3	21.7	8.7	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	7682.9	643.5	65.2	17.4	8.7	0.0	0.0	0.0	0.0	0.0	0.0
75°	4469.7	321.8	47.8	17.4	8.7	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1165.3	160.9	39.1	21.7	13.0	4.3	0.0	0.0	0.0	0.0	0.0
80°	230.4	104.4	34.8	26.1	17.4	8.7	0.0	0.0	0.0	0.0	0.0
82.5°	108.7	73.9	34.8	26.1	21.7	13.0	4.3	0.0	0.0	0.0	0.0
85°	56.5	34.8	34.8	26.1	26.1	17.4	8.7	0.0	0.0	0.0	0.0
87.5°	26.1	13.0	13.0	13.0	13.0	8.7	4.3	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)