

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: P482017

Luminaire Tested: **IFLD-S-SA3A-735-U-T2R-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P482017
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-735-U-T2R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens with House Side Shield
Light Source: (48) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10668.9 lumens
Efficiency: N/A
Efficacy: 112.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

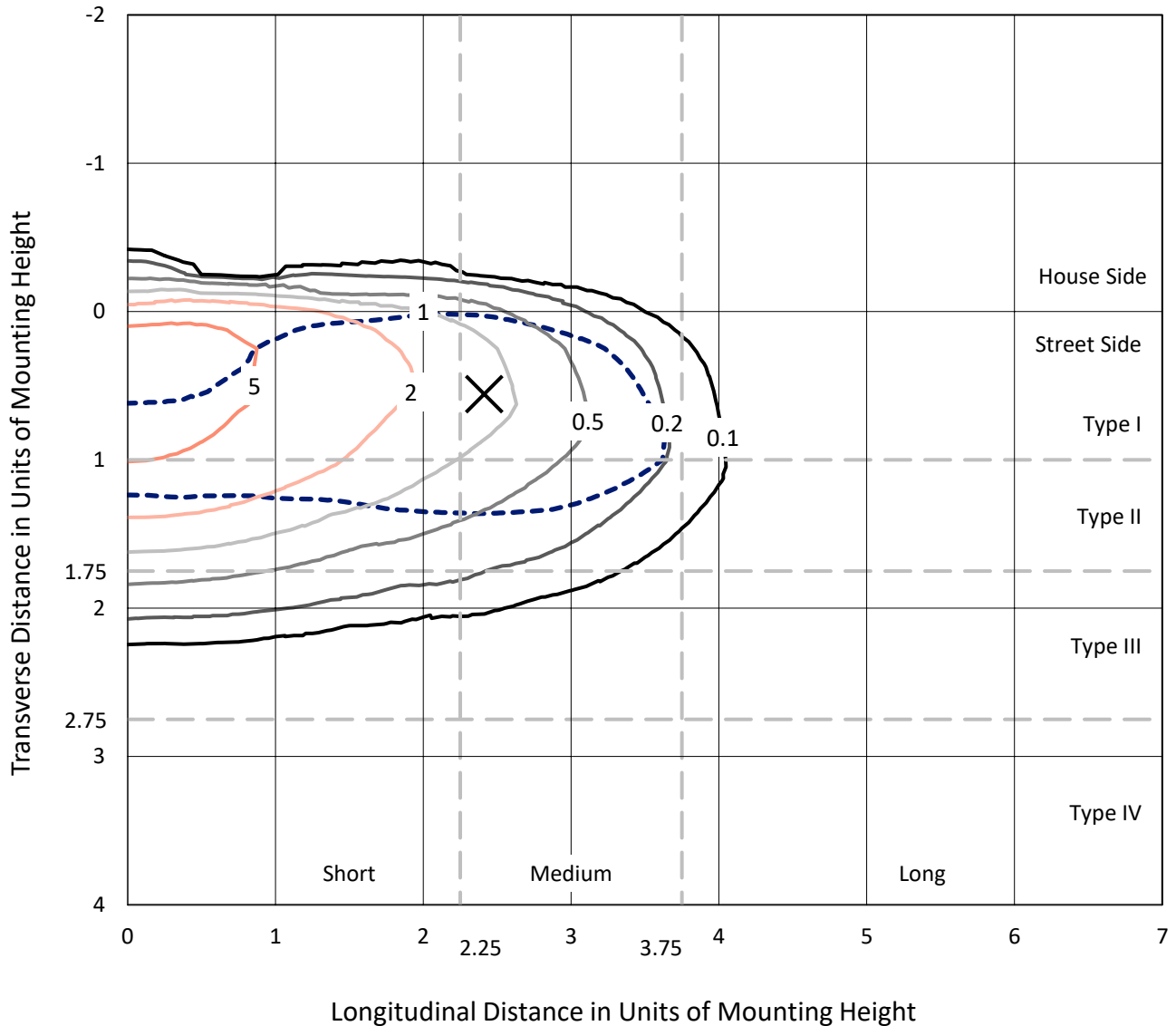
Input Watts (W): 94.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

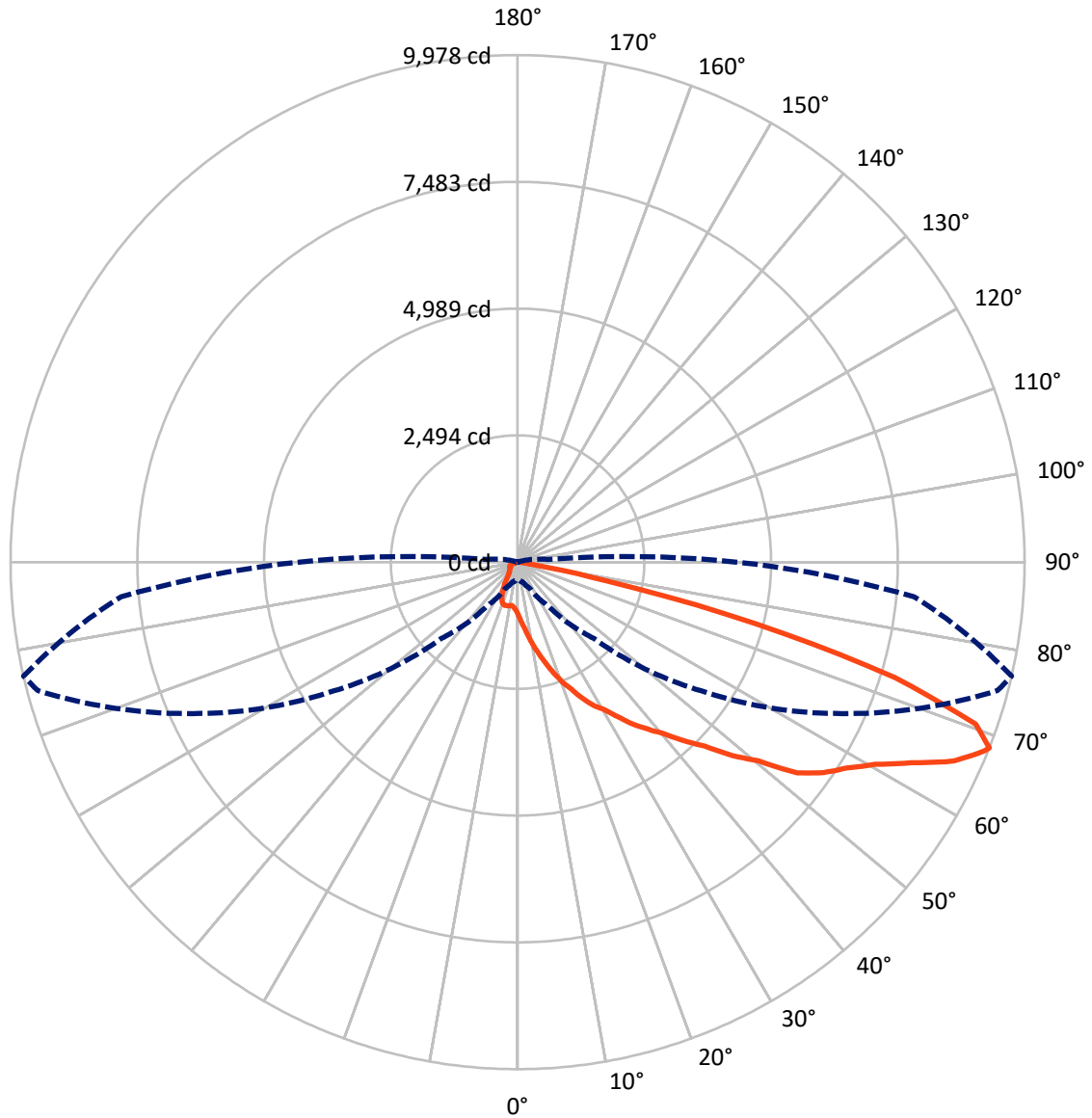
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.6 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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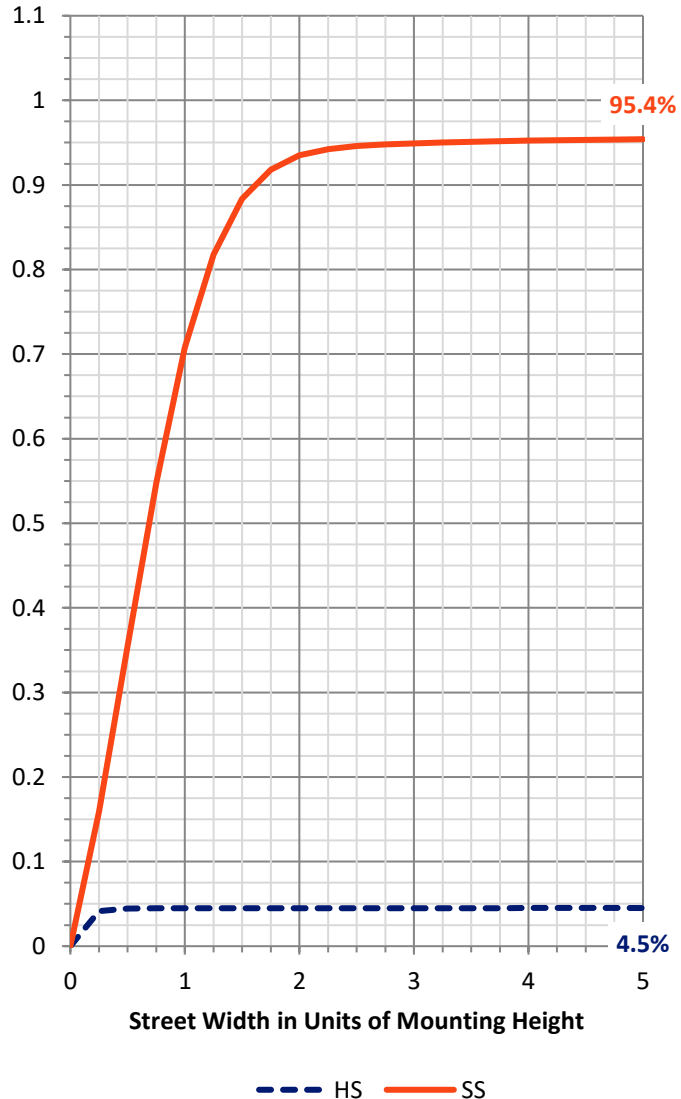
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	483.8	0.0	483.8
	% Fixture	4.5	0.0	4.5
Street Side	Lumens	10185.0	0.0	10185.0
	% Fixture	95.5	0.0	95.5
Total	Lumens	10668.9	0.0	10668.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.3	1.1
10°-20°	440.2	4.1
20°-30°	853.0	8.0
30°-40°	1487.1	13.9
40°-50°	2178.0	20.4
50°-60°	2558.8	24.0
60°-70°	2160.7	20.3
70°-80°	837.5	7.9
80°-90°	34.1	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°	10668.9	100.0
0°-180°	10668.9	100.0

Coefficient of Utilization



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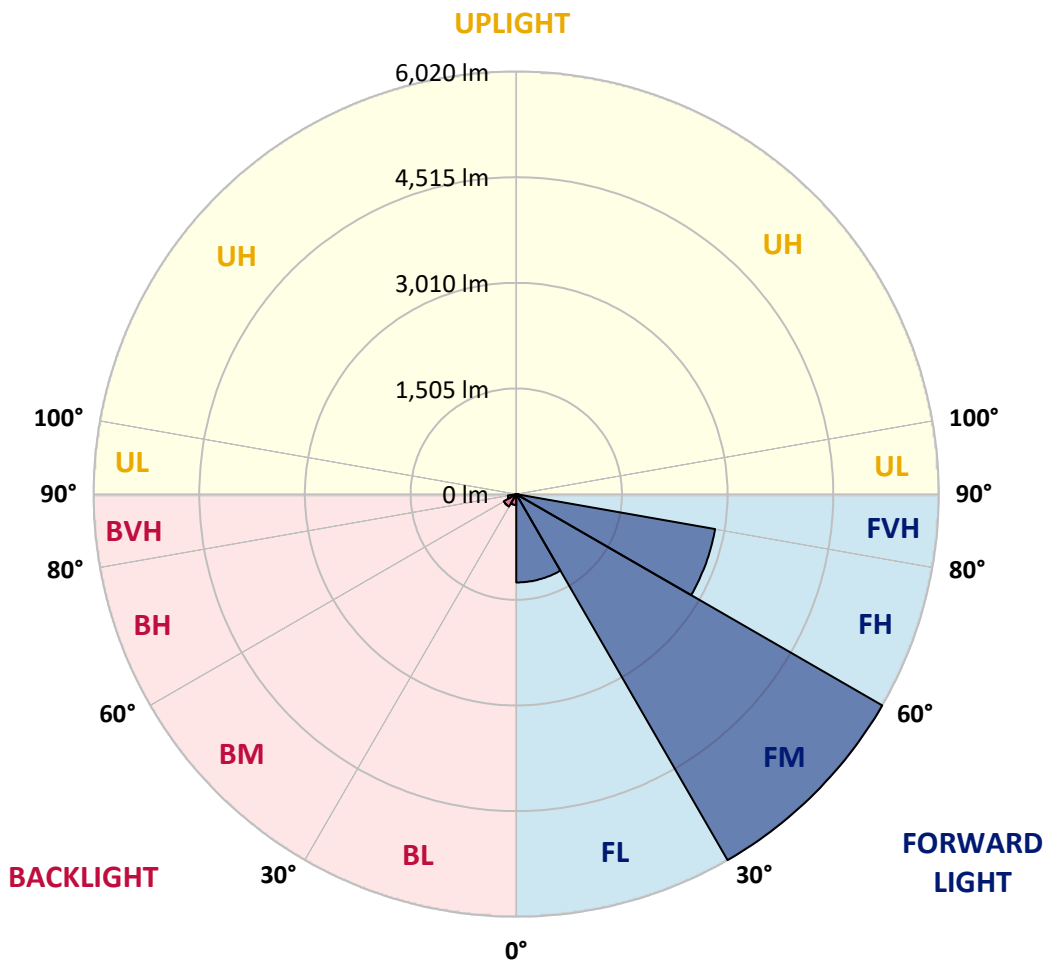
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1258.0	11.8			
FM (30°-60°)	6019.6	56.4			
FH (60°-80°)	2876.1	27.0			G2/5000
FVH (80°-90°)	31.4	0.3			G1/100
BL (0°-30°)	154.6	1.4	B1/500		
BM (30°-60°)	204.4	1.9	B0/220		
BH (60°-80°)	122.2	1.1	B1/500		G1/500
BVH (80°-90°)	2.6	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-G2

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	1021.6	1021.6	1021.6	1021.6	1021.6	1021.6	1021.6	1021.6	1021.6	1021.6	1021.6
2.5°	1552.2	1522.8	1491.9	1483.1	1425.8	1361.1	1300.8	1242.0	1143.6	1145.0	1077.4
5°	2000.5	1963.7	1938.8	1932.9	1843.2	1731.5	1640.4	1474.3	1311.1	1274.4	1150.9
7.5°	2369.4	2357.7	2320.9	2290.1	2223.9	2087.2	1979.9	1741.8	1493.4	1452.2	1240.6
10°	2592.9	2610.5	2626.7	2587.0	2535.5	2437.0	2290.1	2032.8	1700.6	1649.2	1356.7
12.5°	2831.0	2801.6	2811.9	2844.2	2776.6	2754.5	2572.3	2332.7	1943.2	1844.7	1503.7
15°	2892.7	2904.5	2929.5	3023.5	3069.1	3005.9	2848.6	2575.2	2194.5	2057.8	1640.4
17.5°	2933.9	2928.0	2958.8	3100.0	3169.0	3229.3	3130.8	2845.7	2413.5	2291.5	1810.9
20°	2985.3	2953.0	3020.6	3110.2	3270.5	3396.9	3392.5	3117.6	2642.8	2513.5	1979.9
22.5°	3176.4	3151.4	3205.8	3214.6	3326.3	3502.7	3545.3	3339.5	2878.0	2719.3	2162.2
25°	3529.2	3574.7	3510.0	3454.2	3488.0	3604.1	3635.0	3536.5	3114.7	2969.1	2344.4
27.5°	4045.1	4039.2	3911.3	3839.3	3758.5	3743.8	3765.8	3720.2	3301.3	3197.0	2494.4
30°	4599.2	4550.7	4433.1	4259.7	4081.8	3971.6	3940.7	3893.7	3520.3	3368.9	2642.8
32.5°	5040.2	5066.6	4935.8	4709.5	4414.0	4265.6	4117.1	4065.7	3761.4	3627.6	2813.3
35°	5445.9	5410.6	5306.2	5115.1	4850.6	4611.0	4378.7	4268.5	4051.0	3918.7	3001.5
37.5°	5745.7	5789.8	5591.4	5409.1	5146.0	4947.6	4719.8	4478.7	4349.3	4173.0	3230.8
40°	6029.4	5960.3	5826.6	5659.0	5415.0	5263.6	5113.7	4737.4	4666.8	4439.0	3489.5
42.5°	5979.4	5983.8	5910.3	5775.1	5598.7	5512.0	5460.6	5051.9	4954.9	4809.4	3742.3
45°	5775.1	5792.8	5817.7	5751.6	5766.3	5679.6	5817.7	5413.5	5318.0	5163.7	4033.3
47.5°	5550.2	5579.6	5573.7	5694.3	5831.0	5860.4	6205.8	5814.8	5773.6	5688.4	4436.1
50°	5176.9	5188.6	5301.8	5520.8	5707.5	6014.7	6496.8	6252.8	6316.0	6148.5	4915.2
52.5°	4539.0	4581.6	4872.6	5185.7	5562.0	6092.6	6693.8	6904.0	7064.2	6892.2	5375.3
55°	3732.0	3790.8	4077.4	4663.9	5215.1	5975.0	6873.1	7247.9	7572.8	7312.6	5654.6
57.5°	3002.9	3008.8	3266.1	3871.6	4722.7	5744.3	6964.2	7415.5	7852.0	7643.3	5995.6
60°	2288.6	2265.1	2495.8	3020.6	3893.7	5176.9	6736.4	7500.7	8200.4	8079.9	6405.7
62.5°	1472.8	1436.1	1687.4	2198.9	3041.2	4231.8	6280.8	7502.2	8744.3	8698.7	7092.1
65°	729.1	704.1	920.1	1347.9	2104.9	3236.7	5631.1	7474.3	9408.6	9438.0	7760.9
67.5°	385.1	393.9	463.0	683.5	1214.1	2287.1	4652.1	7146.5	9748.2	9912.8	7922.6
68°	354.2	357.2	411.6	568.8	1053.9	2121.0	4419.9	7051.0	9774.6	9977.5	7832.9
70°	288.1	292.5	311.6	357.2	570.3	1380.2	3410.1	6239.6	9376.3	9561.5	7090.7
72.5°	229.3	242.5	254.3	273.4	335.1	724.6	2121.0	4862.3	7746.2	7766.8	5519.4
75°	174.9	185.2	208.7	224.9	261.6	398.3	1009.8	2964.7	5082.8	4832.9	3251.4
77.5°	135.2	144.0	154.3	176.4	219.0	269.0	308.7	1258.2	2159.2	1777.1	918.7
80°	80.8	86.7	120.5	138.2	191.1	182.3	122.0	349.8	438.0	345.4	167.6
82.5°	47.0	51.4	69.1	105.8	133.8	98.5	72.0	108.8	107.3	94.1	55.9
85°	1.5	2.9	38.2	63.2	47.0	26.5	44.1	45.6	38.2	35.3	25.0
87.5°	0.0	1.5	10.3	8.8	10.3	5.9	8.8	11.8	14.7	13.2	10.3
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°	1021.6	1021.6	1021.6	1021.6	1021.6	1021.6	1021.6	1021.6	1021.6	1021.6	1021.6
2.5°	1031.8	999.5	927.5	873.1	814.3	779.0	743.8	721.7	709.9	702.6	708.5
5°	1058.3	990.7	874.6	771.7	704.1	658.5	612.9	589.4	567.4	555.6	563.0
7.5°	1117.1	1015.7	823.1	711.4	632.0	561.5	504.2	458.6	432.1	408.6	413.0
10°	1189.1	1030.4	824.6	676.1	561.5	449.8	368.9	311.6	279.3	258.7	257.2
12.5°	1262.6	1087.7	830.5	640.9	474.8	338.1	242.5	199.9	180.8	170.5	170.5
15°	1374.3	1139.1	815.8	576.2	360.1	220.5	166.1	151.4	144.0	135.2	136.7
17.5°	1471.3	1221.5	808.4	479.2	246.9	158.7	138.2	122.0	114.6	105.8	105.8
20°	1602.2	1272.9	768.7	370.4	170.5	132.3	111.7	97.0	85.3	77.9	79.4
22.5°	1721.2	1312.6	698.2	252.8	130.8	104.4	82.3	67.6	57.3	48.5	50.0
25°	1850.6	1352.3	595.3	155.8	92.6	64.7	44.1	32.3	22.0	16.2	16.2
27.5°	1943.2	1364.0	461.5	92.6	55.9	29.4	10.3	1.5	0.0	0.0	0.0
30°	2037.2	1368.4	319.0	50.0	22.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	2144.5	1367.0	199.9	26.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0
35°	2226.9	1342.0	95.5	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	2351.8	1305.2	29.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	2494.4	1239.1	5.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	2622.2	1171.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	2767.8	1087.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	3023.5	1052.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	3357.2	1024.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	3563.0	942.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	3670.3	856.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	3829.0	815.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	4064.2	818.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	4431.7	859.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	4634.5	818.7	5.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	4462.5	655.6	27.9	7.3	1.5	0.0	0.0	0.0	0.0	0.0	0.0
68°	4314.1	602.6	27.9	7.3	1.5	0.0	0.0	0.0	0.0	0.0	0.0
70°	3565.9	392.5	26.5	7.3	2.9	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	2597.3	217.5	22.0	5.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0
75°	1511.0	108.8	16.2	5.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	393.9	54.4	13.2	7.3	4.4	1.5	0.0	0.0	0.0	0.0	0.0
80°	77.9	35.3	11.8	8.8	5.9	2.9	0.0	0.0	0.0	0.0	0.0
82.5°	36.7	25.0	11.8	8.8	7.3	4.4	1.5	0.0	0.0	0.0	0.0
85°	19.1	11.8	11.8	8.8	8.8	5.9	2.9	0.0	0.0	0.0	0.0
87.5°	8.8	4.4	4.4	4.4	4.4	2.9	1.5	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)