

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: P477020

Luminaire Tested: **IFLD-S-SA2A-750-U-T2R**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P477020  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2A-750-U-T2R  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens  
Light Source: (32) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

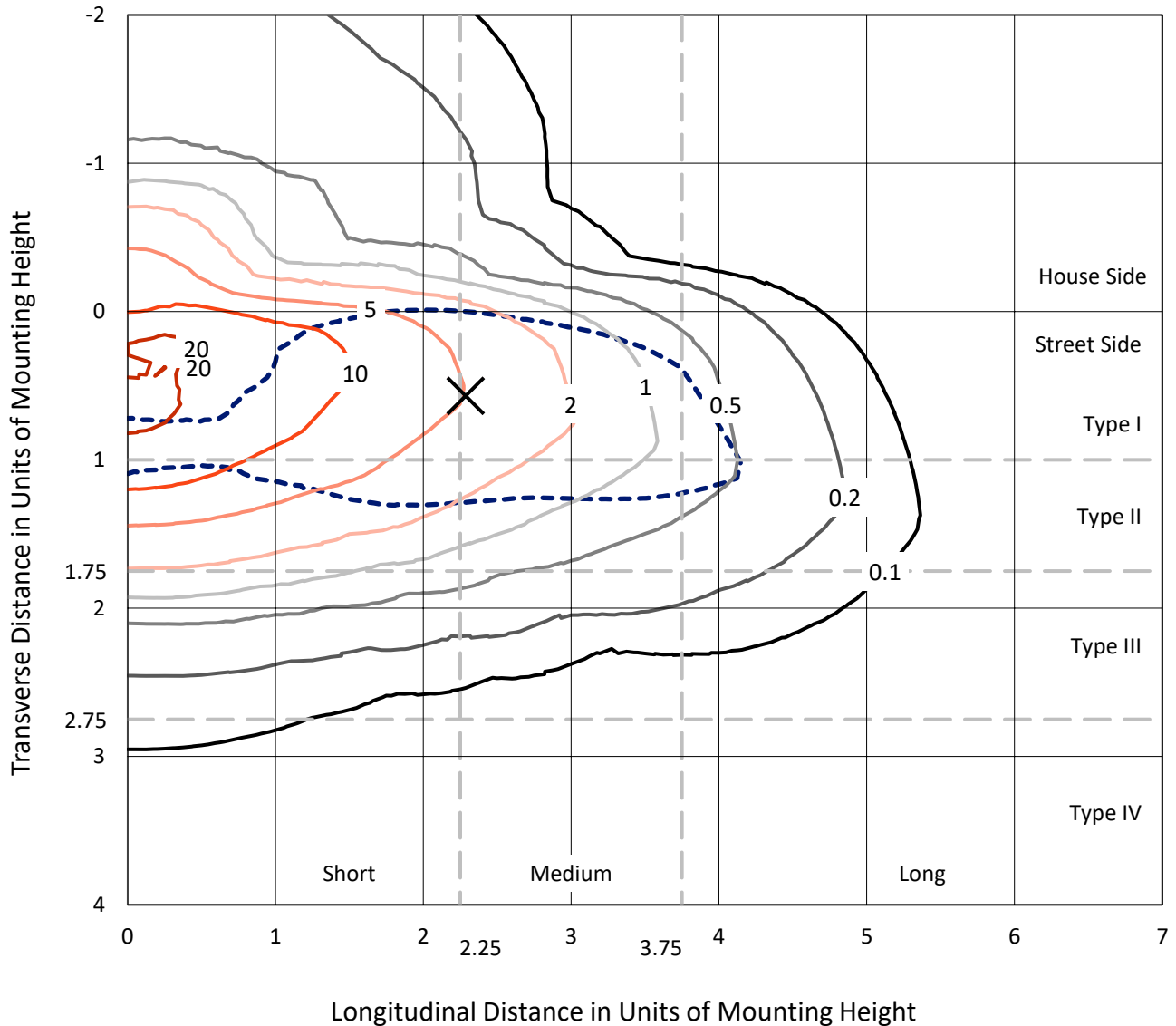
Lumens per Lamp: N/A  
Luminaire Lumens: 9496.7 lumens  
Efficiency: N/A  
Efficacy: 148.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2

Input Watts (W): 63.8  
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

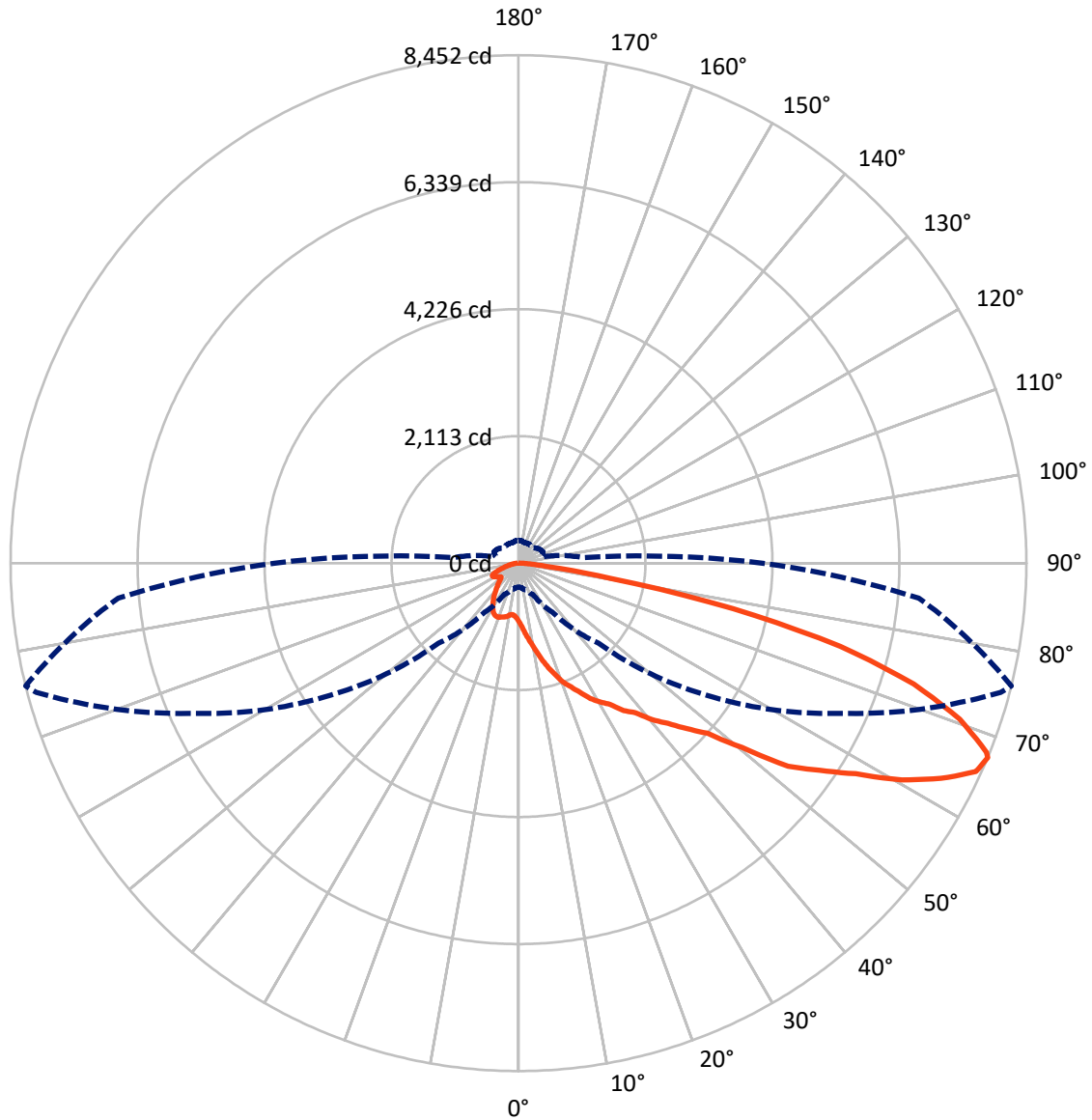
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 22.7 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 67-Deg Vertical

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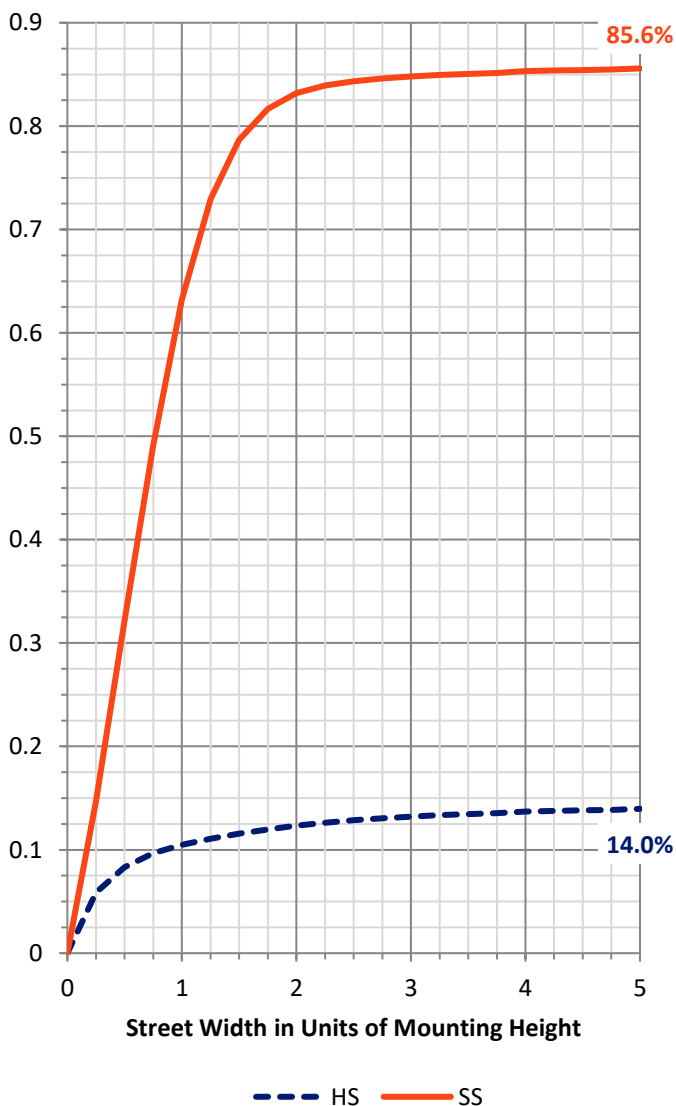
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1351.0	0.0	1351.0
	% Fixture	14.2	0.0	14.2
<b>Street Side</b>	Lumens	8145.7	0.0	8145.7
	% Fixture	85.8	0.0	85.8
<b>Total</b>	Lumens	9496.7	0.0	9496.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	112.6	1.2
10°-20°	422.2	4.4
20°-30°	784.9	8.3
30°-40°	1244.3	13.1
40°-50°	1721.0	18.1
50°-60°	2116.9	22.3
60°-70°	1969.9	20.7
70°-80°	988.5	10.4
80°-90°	136.3	1.4
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°	9496.7	100.0
0°-180°	9496.7	100.0

**Coefficient of Utilization**



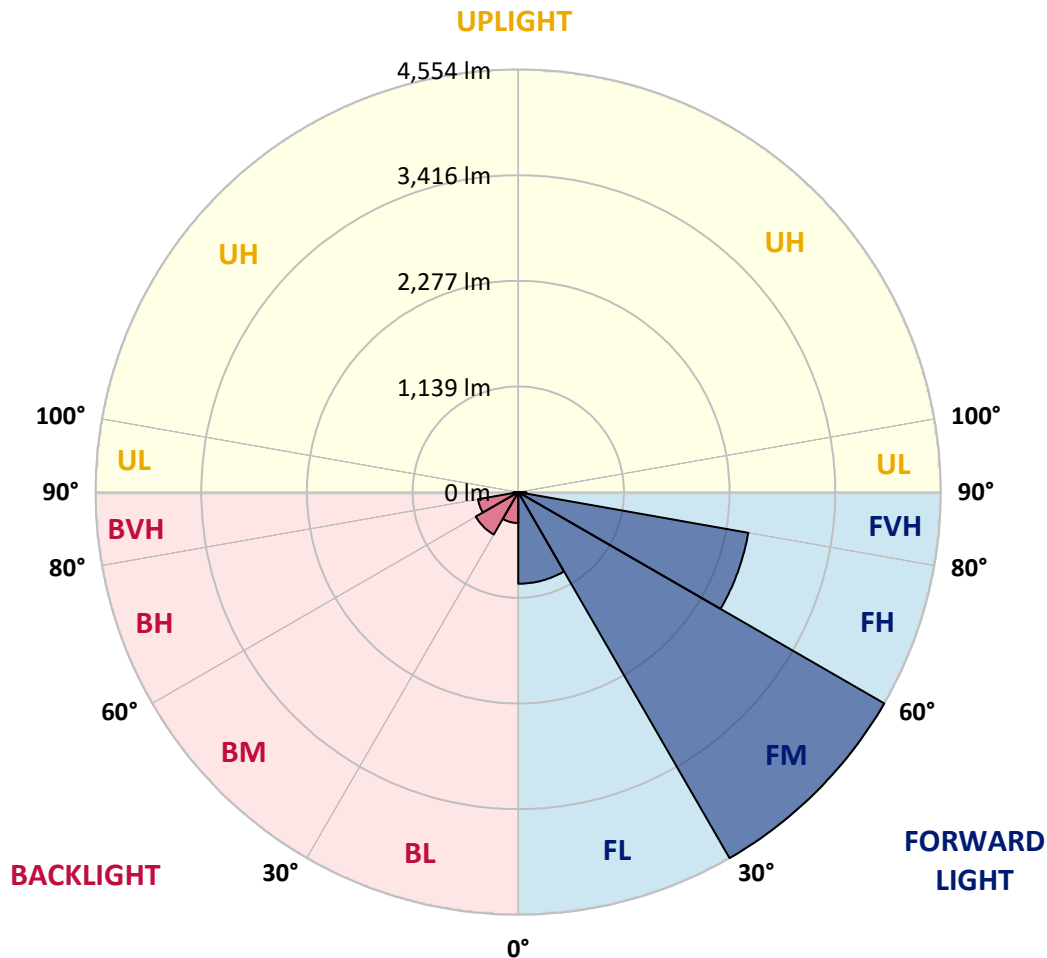
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	987.0	10.4			
FM (30°-60°)	4554.3	48.0			
FH (60°-80°)	2517.5	26.5			G2/5000
FVH (80°-90°)	86.8	0.9			G1/100
BL (0°-30°)	332.7	3.5	B1/500		
BM (30°-60°)	528.0	5.6	B1/1000		
BH (60°-80°)	440.9	4.6	B1/500		G1/500
BVH (80°-90°)	49.5	0.5			G1/100
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°	76°	85°
0°	971.8	971.8	971.8	971.8	971.8	971.8	971.8	971.8	971.8	971.8	971.8
2.5°	1348.5	1332.2	1316.0	1281.4	1269.5	1237.0	1177.5	1111.5	1057.3	1049.8	1011.9
5°	1673.1	1649.3	1643.9	1624.4	1562.7	1500.0	1402.6	1296.5	1164.5	1174.2	1044.4
7.5°	1916.6	1902.6	1873.3	1854.9	1818.1	1734.8	1634.2	1493.5	1325.7	1293.3	1116.9
10°	2100.6	2081.1	2080.0	2063.8	2044.3	1958.8	1882.0	1692.6	1477.2	1432.9	1205.6
12.5°	2193.7	2190.4	2247.8	2247.8	2240.2	2204.5	2072.5	1899.3	1621.2	1606.0	1308.4
15°	2294.3	2267.3	2317.1	2354.9	2374.4	2392.8	2283.5	2100.6	1805.2	1775.9	1418.8
17.5°	2294.3	2292.2	2341.9	2404.7	2506.4	2530.3	2470.7	2285.7	1957.8	1936.1	1540.0
20°	2255.4	2286.8	2321.4	2405.8	2516.2	2612.5	2629.8	2475.1	2126.6	2109.3	1677.5
22.5°	2437.2	2406.9	2442.6	2475.1	2560.6	2706.7	2754.3	2641.7	2304.1	2238.1	1801.9
25°	2742.4	2721.8	2695.8	2648.2	2683.9	2747.8	2820.3	2765.1	2455.6	2382.0	1922.0
27.5°	3040.0	3041.1	2984.8	2880.9	2804.1	2817.0	2902.5	2873.3	2583.3	2550.8	2004.3
30°	3463.1	3437.2	3374.4	3233.7	3083.3	2959.9	2945.8	2974.0	2745.6	2682.9	2122.3
32.5°	3780.2	3785.6	3696.9	3494.5	3288.9	3188.3	3064.9	3076.8	2848.4	2801.9	2216.4
35°	4036.7	4030.2	3967.5	3799.7	3556.2	3435.0	3268.3	3200.2	3087.6	3014.0	2360.3
37.5°	4313.8	4260.7	4159.0	3969.6	3813.8	3646.0	3483.7	3330.0	3246.7	3157.9	2483.7
40°	4425.2	4425.2	4288.9	4202.3	4017.2	3890.6	3785.6	3501.0	3440.4	3423.1	2641.7
42.5°	4346.2	4394.9	4338.7	4240.2	4164.4	4004.3	3976.1	3678.5	3679.6	3645.0	2831.1
45°	4338.7	4271.6	4225.0	4249.9	4214.2	4205.5	4277.0	3924.2	3930.7	3926.3	3085.4
47.5°	4121.1	4090.8	4160.1	4201.2	4230.4	4364.6	4570.3	4217.5	4264.0	4231.5	3378.7
50°	3904.7	3899.3	3942.6	4091.9	4218.5	4439.3	4849.5	4669.8	4822.4	4820.3	3910.1
52.5°	3311.6	3369.0	3538.9	3854.9	4167.7	4541.0	5060.5	5247.7	5538.9	5617.9	4350.6
55°	2744.5	2714.2	2965.3	3424.2	3945.8	4581.1	5296.4	5595.1	6023.7	6081.1	4802.9
57.5°	2135.2	2191.5	2389.6	2830.0	3486.9	4383.0	5469.6	5938.2	6571.3	6615.7	5327.8
60°	1593.0	1600.6	1818.1	2173.1	2876.6	3936.1	5525.9	6289.9	7199.0	7325.6	5877.6
62.5°	1002.1	1047.6	1213.2	1562.7	2165.5	3310.5	5273.7	6503.1	7857.0	7890.5	6431.7
65°	540.0	569.3	693.7	913.4	1513.0	2504.3	4604.9	6375.4	8166.5	8365.6	6678.4
67°	399.3	404.8	462.1	583.3	1011.9	1885.2	3839.8	5913.3	8307.2	8452.2	6688.2
67.5°	374.5	382.0	427.5	523.8	897.2	1735.9	3639.5	5748.8	8244.4	8400.3	6612.4
70°	320.3	322.5	333.3	360.4	503.2	1044.4	2478.3	4711.0	7641.6	7791.0	6081.1
72.5°	284.6	286.8	291.1	296.5	340.9	603.9	1507.5	3625.5	6641.7	6879.7	5246.7
75°	250.0	257.6	259.7	255.4	290.0	392.8	801.9	2664.5	5417.6	5533.4	4080.0
77.5°	212.1	215.4	219.7	224.0	258.7	293.3	385.3	1798.7	3718.5	3648.2	2206.7
80°	178.6	179.7	182.9	186.1	224.0	224.0	218.6	971.8	1624.4	1553.0	745.7
82.5°	127.7	135.3	142.9	151.5	186.1	150.4	142.9	432.9	514.1	489.2	252.2
85°	49.8	60.6	94.2	103.9	118.0	81.2	95.2	187.2	214.3	212.1	94.2
87.5°	8.7	9.7	26.0	40.0	43.3	28.1	45.5	67.1	80.1	86.6	34.6
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°	971.8	971.8	971.8	971.8	971.8	971.8	971.8	971.8	971.8	971.8	971.8
2.5°	980.5	947.0	906.9	866.9	840.9	799.8	796.5	771.6	768.4	759.7	764.1
5°	988.1	948.0	866.9	803.0	773.8	750.0	755.4	744.6	741.3	735.9	727.3
7.5°	1047.6	968.6	847.4	792.2	770.5	759.7	759.7	746.7	737.0	743.5	750.0
10°	1086.6	978.3	862.5	807.3	790.0	766.2	774.9	758.6	764.1	751.1	751.1
12.5°	1149.3	1033.5	893.9	830.1	801.9	780.3	788.9	770.5	766.2	767.3	764.1
15°	1233.7	1070.3	908.0	843.1	823.6	796.5	790.0	773.8	757.6	752.2	758.6
17.5°	1312.7	1115.8	917.7	850.6	819.2	788.9	781.4	760.8	755.4	739.2	726.2
20°	1406.9	1169.9	930.7	857.1	803.0	772.7	753.2	732.7	714.3	704.5	708.9
22.5°	1469.7	1198.0	937.2	844.1	779.2	751.1	709.9	695.9	669.9	659.1	650.4
25°	1572.5	1232.7	921.0	808.4	737.0	691.5	654.7	635.3	616.9	602.8	598.5
27.5°	1598.5	1258.6	883.1	747.8	669.9	622.3	590.9	567.1	555.2	533.5	529.2
30°	1674.2	1232.7	826.8	674.2	606.0	557.3	526.0	508.6	480.5	475.1	463.2
32.5°	1722.9	1240.2	755.4	602.8	532.5	489.2	468.6	451.3	443.7	417.7	411.2
35°	1804.1	1214.3	682.9	536.8	471.9	438.3	421.0	415.6	390.7	378.8	368.0
37.5°	1856.0	1199.1	610.4	462.1	405.8	391.8	397.2	374.5	344.1	321.4	313.8
40°	1946.9	1193.7	528.1	400.4	360.4	357.1	374.5	331.2	276.0	256.5	245.7
42.5°	2077.9	1156.9	464.3	345.2	324.7	338.7	342.0	276.0	244.6	228.4	220.8
45°	2203.4	1164.5	401.5	285.7	282.5	303.0	295.4	233.8	215.4	203.5	210.0
47.5°	2444.8	1202.4	339.8	238.1	254.3	273.8	229.4	208.9	191.6	182.9	184.0
50°	2818.1	1239.2	285.7	217.5	240.3	247.8	197.0	189.4	188.3	171.0	169.9
52.5°	3042.2	1225.1	276.0	243.5	257.6	247.8	214.3	208.9	200.2	192.6	184.0
55°	3398.2	1266.2	296.5	284.6	292.2	238.1	240.3	238.1	231.6	212.1	217.5
57.5°	3681.7	1293.3	323.6	318.2	313.8	247.8	251.1	252.2	247.8	239.2	246.7
60°	4071.4	1347.4	351.7	352.8	353.9	269.5	274.9	281.4	280.3	277.1	279.2
62.5°	4310.5	1322.5	383.1	400.4	395.0	313.8	312.8	317.1	317.1	322.5	325.8
65°	4274.8	1230.5	399.3	442.6	414.5	346.3	346.3	348.5	349.6	360.4	361.5
67°	4060.5	1066.0	390.7	449.1	414.5	359.3	359.3	361.5	353.9	382.0	373.4
67.5°	3961.0	1017.3	383.1	443.7	411.2	358.2	358.2	359.3	352.8	379.9	371.2
70°	3444.7	755.4	330.1	392.8	380.9	348.5	348.5	342.0	336.6	372.3	364.7
72.5°	2940.4	548.7	265.1	334.4	344.1	335.5	337.7	321.4	306.3	331.2	324.7
75°	2252.1	403.7	206.7	257.6	291.1	313.8	327.9	286.8	267.3	273.8	261.9
77.5°	1256.5	263.0	163.4	190.5	221.9	292.2	314.9	258.7	218.6	211.0	211.0
80°	426.4	153.7	120.1	141.8	152.6	258.7	294.4	210.0	172.1	164.5	159.1
82.5°	161.3	94.2	82.2	97.4	97.4	204.5	240.3	161.3	129.9	167.7	171.0
85°	73.6	56.3	54.1	56.3	56.3	125.5	169.9	105.0	116.9	100.6	88.7
87.5°	29.2	27.1	24.9	23.8	19.5	21.6	58.4	28.1	53.0	14.1	13.0
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)