

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: P476947

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

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P476947  
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  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens  
Light Source: (48) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

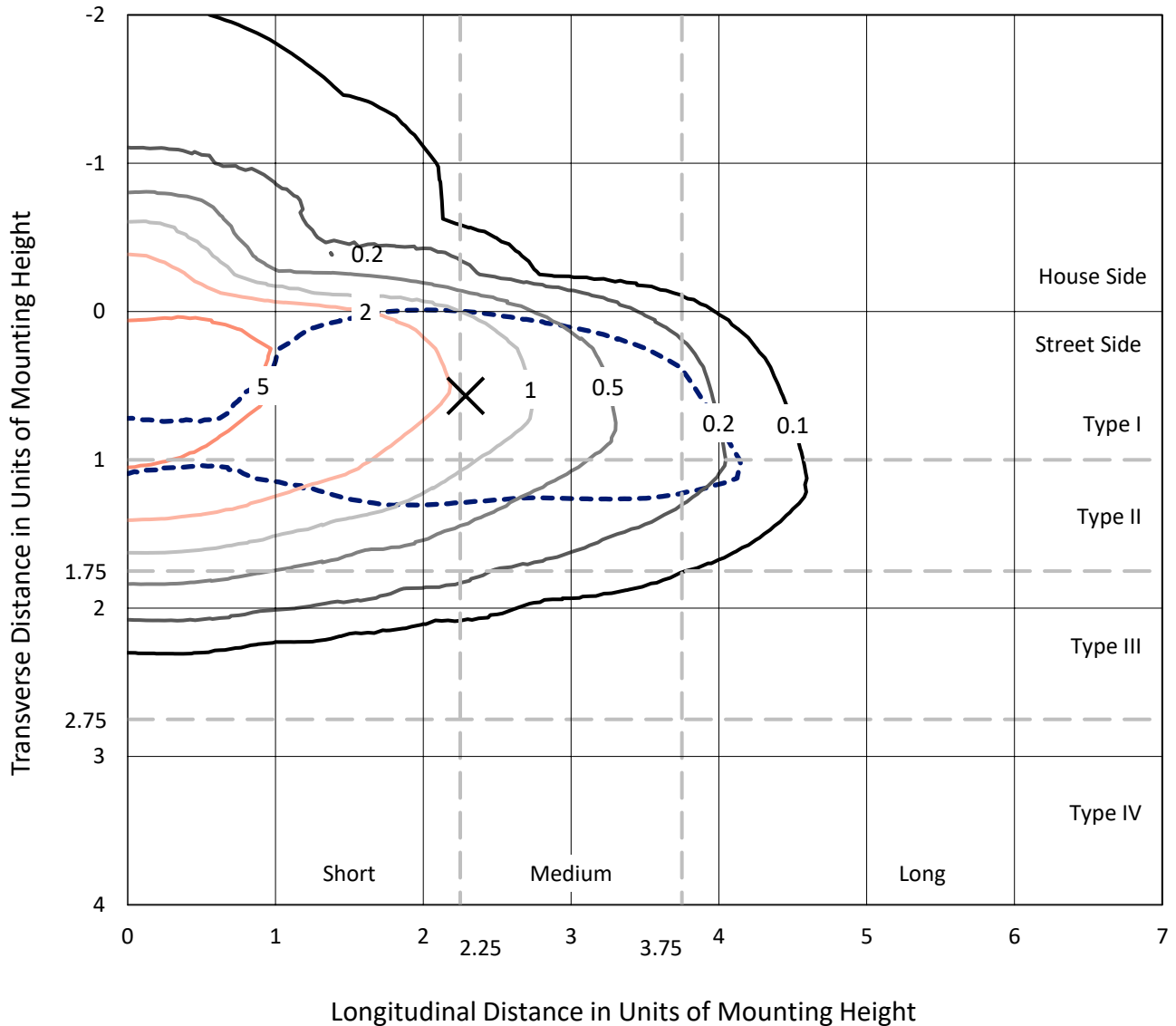
Lumens per Lamp: N/A  
Luminaire Lumens: 13646.3 lumens  
Efficiency: N/A  
Efficacy: 143.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G2

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

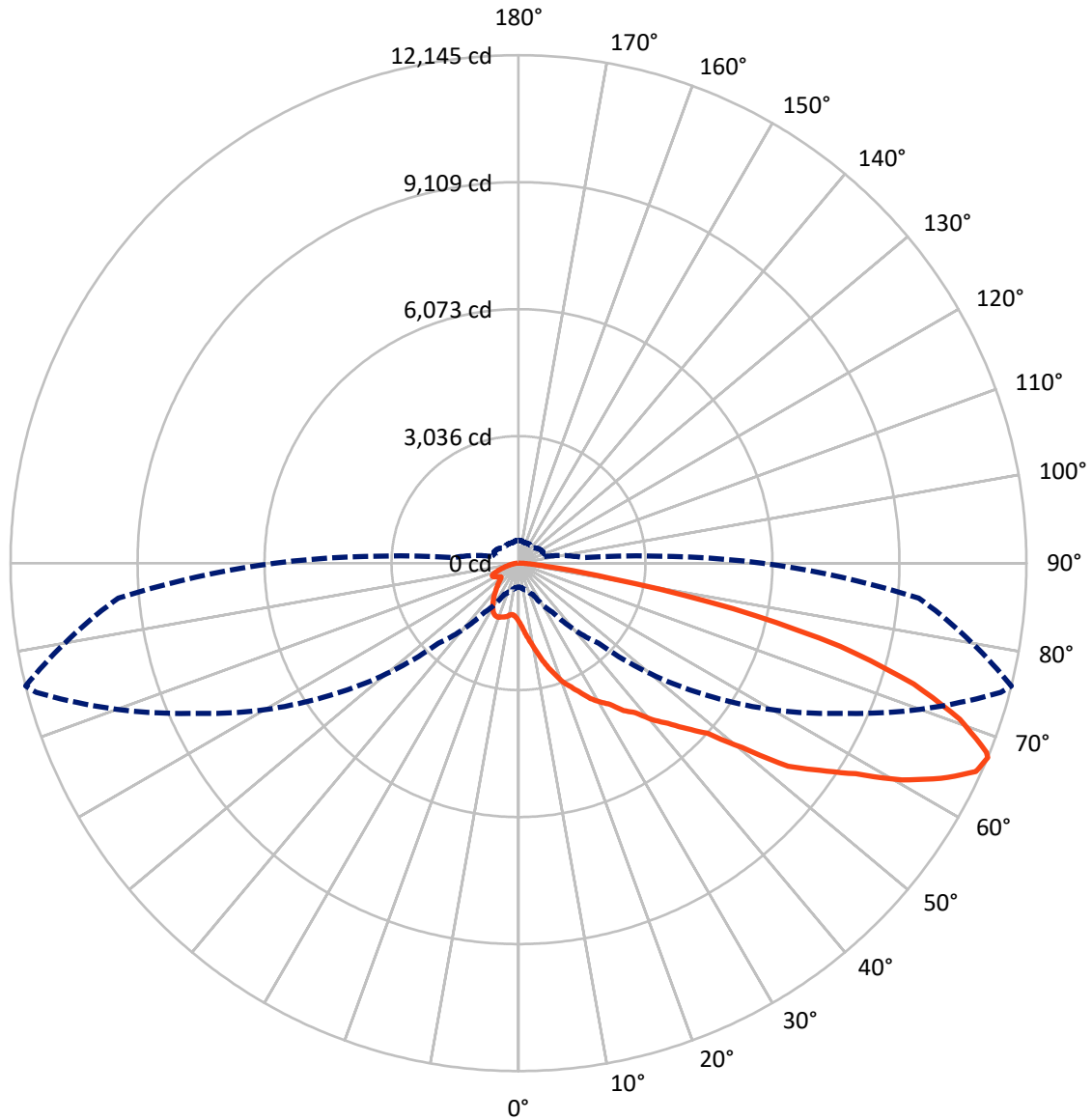
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.1 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	1941.4	0.0	1941.4
	% Fixture	14.2	0.0	14.2
<b>Street Side</b>	Lumens	11704.9	0.0	11704.9
	% Fixture	85.8	0.0	85.8
<b>Total</b>	Lumens	13646.3	0.0	13646.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	161.8	1.2
10°-20°	606.7	4.4
20°-30°	1127.9	8.3
30°-40°	1788.0	13.1
40°-50°	2473.0	18.1
50°-60°	3041.9	22.3
60°-70°	2830.7	20.7
70°-80°	1420.4	10.4
80°-90°	195.9	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°	13646.3	100.0
0°-180°	13646.3	100.0

**Coefficient of Utilization**



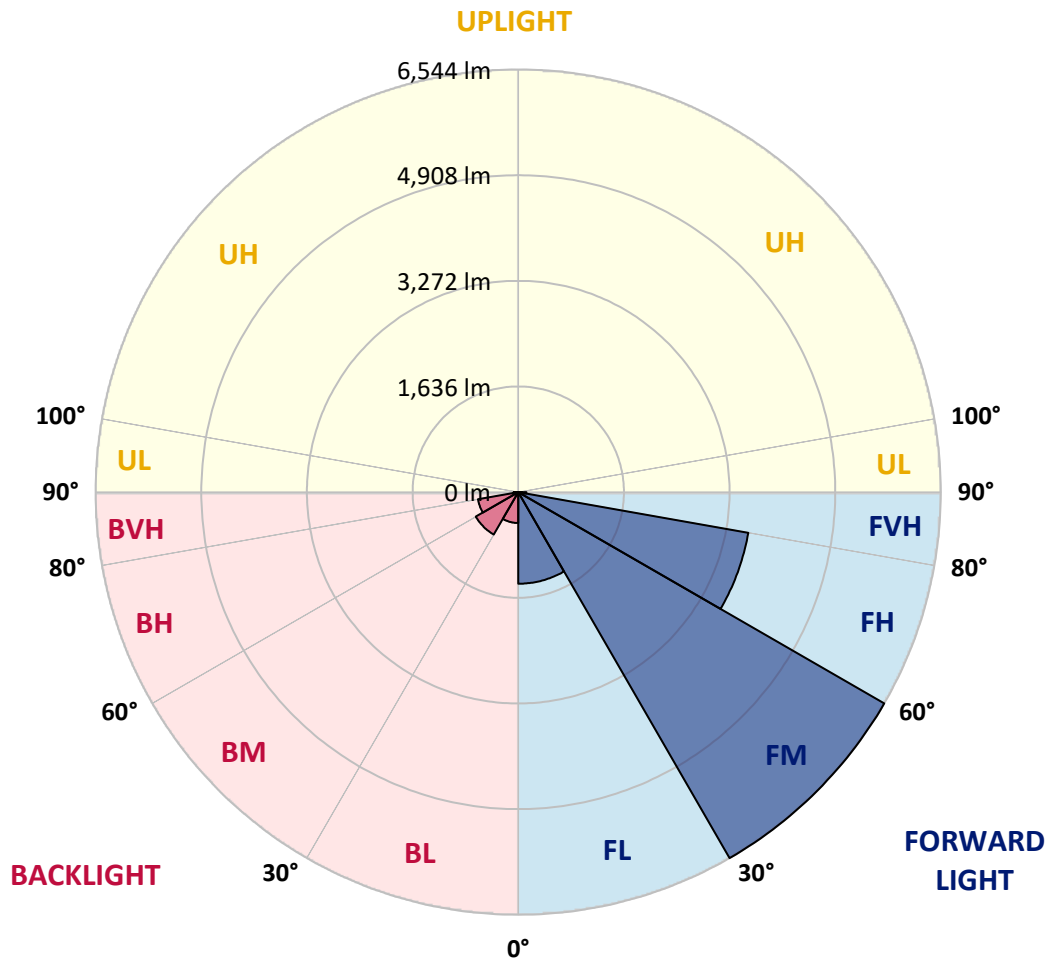
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1418.3	10.4			
FM (30°-60°)	6544.3	48.0			
FH (60°-80°)	3617.5	26.5			G2/5000
FVH (80°-90°)	124.8	0.9			G2/225
BL (0°-30°)	478.1	3.5	B1/500		
BM (30°-60°)	758.6	5.6	B1/1000		
BH (60°-80°)	633.6	4.6	B2/1000		G2/1000
BVH (80°-90°)	71.1	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1396.5	1396.5	1396.5	1396.5	1396.5	1396.5	1396.5	1396.5	1396.5	1396.5	1396.5
2.5°	1937.7	1914.3	1891.0	1841.3	1824.1	1777.5	1692.0	1597.1	1519.3	1508.5	1454.0
5°	2404.2	2370.0	2362.2	2334.2	2245.6	2155.4	2015.4	1863.0	1673.3	1687.3	1500.7
7.5°	2754.1	2733.9	2691.9	2665.5	2612.6	2492.8	2348.2	2146.1	1905.0	1858.4	1604.9
10°	3018.5	2990.5	2988.9	2965.6	2937.6	2814.8	2704.3	2432.2	2122.7	2059.0	1732.4
12.5°	3152.2	3147.5	3230.0	3230.0	3219.1	3167.8	2978.0	2729.2	2329.6	2307.8	1880.1
15°	3296.8	3258.0	3329.5	3383.9	3411.9	3438.4	3281.3	3018.5	2593.9	2551.9	2038.8
17.5°	3296.8	3293.7	3365.3	3455.5	3601.6	3635.9	3550.3	3284.4	2813.2	2782.1	2212.9
20°	3240.9	3286.0	3335.7	3457.0	3615.6	3754.0	3778.9	3556.5	3055.8	3030.9	2410.4
22.5°	3502.1	3458.6	3509.9	3556.5	3679.4	3889.3	3957.8	3796.0	3310.8	3216.0	2589.3
25°	3940.7	3911.1	3873.8	3805.4	3856.7	3948.4	4052.6	3973.3	3528.5	3422.8	2761.9
27.5°	4368.3	4369.9	4289.0	4139.7	4029.3	4048.0	4170.8	4128.8	3712.1	3665.4	2880.1
30°	4976.4	4939.0	4848.8	4646.7	4430.5	4253.2	4233.0	4273.4	3945.3	3855.1	3049.6
32.5°	5432.0	5439.8	5312.3	5021.5	4726.0	4581.4	4404.1	4421.2	4093.1	4026.2	3184.9
35°	5800.6	5791.2	5701.0	5460.0	5110.1	4935.9	4696.4	4598.5	4436.7	4331.0	3391.7
37.5°	6198.7	6122.5	5976.3	5704.1	5480.2	5239.2	5005.9	4785.1	4665.3	4537.8	3569.0
40°	6358.9	6358.9	6162.9	6038.5	5772.6	5590.6	5439.8	5030.8	4943.7	4918.8	3796.0
42.5°	6245.3	6315.3	6234.4	6092.9	5984.1	5753.9	5713.5	5285.8	5287.4	5237.6	4068.2
45°	6234.4	6138.0	6071.2	6106.9	6055.6	6043.2	6145.8	5638.8	5648.2	5641.9	4433.6
47.5°	5921.9	5878.3	5977.8	6036.9	6078.9	6271.8	6567.2	6060.3	6127.1	6080.5	4855.1
50°	5610.8	5603.1	5665.3	5879.9	6061.8	6379.1	6968.5	6710.3	6929.6	6926.5	5618.6
52.5°	4758.6	4841.1	5085.2	5539.3	5988.7	6525.2	7271.7	7540.7	7959.1	8072.6	6251.5
55°	3943.8	3900.2	4261.0	4920.4	5669.9	6582.8	7610.7	8039.9	8655.8	8738.2	6901.6
57.5°	3068.2	3149.1	3433.7	4066.6	5010.6	6298.2	7859.5	8532.9	9442.6	9506.4	7655.8
60°	2289.1	2300.0	2612.6	3122.7	4133.5	5655.9	7940.4	9038.3	10344.6	10526.5	8445.8
62.5°	1440.0	1505.3	1743.3	2245.6	3111.8	4757.1	7578.1	9344.7	11290.1	11338.3	9242.0
65°	776.0	818.0	996.8	1312.5	2174.0	3598.5	6617.0	9161.2	11734.9	12021.0	9596.6
67°	573.8	581.6	664.0	838.2	1454.0	2709.0	5517.5	8497.1	11937.0	12145.4	9610.6
67.5°	538.1	549.0	614.3	752.7	1289.2	2494.4	5229.8	8260.8	11846.8	12070.8	9501.7
70°	460.3	463.4	479.0	517.9	723.1	1500.7	3561.2	6769.4	10980.6	11195.2	8738.2
72.5°	409.0	412.1	418.3	426.1	489.9	867.8	2166.3	5209.6	9543.7	9885.8	7539.2
75°	359.2	370.1	373.2	367.0	416.8	564.5	1152.3	3828.7	7784.9	7951.3	5862.8
77.5°	304.8	309.5	315.7	321.9	371.7	421.4	553.6	2584.6	5343.4	5242.3	3170.9
80°	256.6	258.1	262.8	267.5	321.9	321.9	314.1	1396.5	2334.2	2231.6	1071.5
82.5°	183.5	194.4	205.3	217.7	267.5	216.2	205.3	622.0	738.7	702.9	362.3
85°	71.5	87.1	135.3	149.3	169.5	116.6	136.8	269.0	307.9	304.8	135.3
87.5°	12.4	14.0	37.3	57.5	62.2	40.4	65.3	96.4	115.1	124.4	49.8
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°	1396.5	1396.5	1396.5	1396.5	1396.5	1396.5	1396.5	1396.5	1396.5	1396.5	1396.5
2.5°	1408.9	1360.7	1303.2	1245.6	1208.3	1149.2	1144.6	1108.8	1104.1	1091.7	1097.9
5°	1419.8	1362.3	1245.6	1153.9	1111.9	1077.7	1085.5	1069.9	1065.3	1057.5	1045.0
7.5°	1505.3	1391.8	1217.7	1138.3	1107.2	1091.7	1091.7	1073.0	1059.0	1068.4	1077.7
10°	1561.3	1405.8	1239.4	1160.1	1135.2	1101.0	1113.5	1090.1	1097.9	1079.2	1079.2
12.5°	1651.5	1485.1	1284.5	1192.8	1152.3	1121.2	1133.7	1107.2	1101.0	1102.6	1097.9
15°	1772.8	1538.0	1304.7	1211.4	1183.4	1144.6	1135.2	1111.9	1088.6	1080.8	1090.1
17.5°	1886.4	1603.3	1318.7	1222.3	1177.2	1133.7	1122.8	1093.2	1085.5	1062.1	1043.5
20°	2021.6	1681.1	1337.4	1231.6	1153.9	1110.3	1082.4	1052.8	1026.4	1012.4	1018.6
22.5°	2111.8	1721.5	1346.7	1213.0	1119.7	1079.2	1020.2	999.9	962.6	947.1	934.6
25°	2259.6	1771.3	1323.4	1161.7	1059.0	993.7	940.8	912.9	886.4	866.2	860.0
27.5°	2296.9	1808.6	1269.0	1074.6	962.6	894.2	849.1	814.9	797.8	766.7	760.4
30°	2405.8	1771.3	1188.1	968.8	870.9	800.9	755.8	730.9	690.5	682.7	665.6
32.5°	2475.7	1782.2	1085.5	866.2	765.1	702.9	673.4	648.5	637.6	600.3	590.9
35°	2592.4	1744.8	981.3	771.3	678.0	629.8	604.9	597.2	561.4	544.3	528.7
37.5°	2667.0	1723.1	877.1	664.0	583.2	563.0	570.7	538.1	494.5	461.9	451.0
40°	2797.6	1715.3	758.9	575.4	517.9	513.2	538.1	475.9	396.6	368.6	353.0
42.5°	2985.8	1662.4	667.1	496.1	466.5	486.7	491.4	396.6	351.5	328.1	317.2
45°	3166.2	1673.3	576.9	410.5	405.9	435.4	424.5	335.9	309.5	292.4	301.7
47.5°	3513.0	1727.7	488.3	342.1	365.5	393.4	329.7	300.1	275.3	262.8	264.4
50°	4049.5	1780.6	410.5	312.6	345.2	356.1	283.0	272.1	270.6	245.7	244.2
52.5°	4371.4	1760.4	396.6	349.9	370.1	356.1	307.9	300.1	287.7	276.8	264.4
55°	4883.1	1819.5	426.1	409.0	419.9	342.1	345.2	342.1	332.8	304.8	312.6
57.5°	5290.5	1858.4	465.0	457.2	451.0	356.1	360.8	362.3	356.1	343.7	354.6
60°	5850.3	1936.1	505.4	507.0	508.5	387.2	395.0	404.3	402.8	398.1	401.2
62.5°	6194.0	1900.3	550.5	575.4	567.6	451.0	449.4	455.6	455.6	463.4	468.1
65°	6142.7	1768.2	573.8	636.0	595.6	497.6	497.6	500.7	502.3	517.9	519.4
67°	5834.8	1531.8	561.4	645.4	595.6	516.3	516.3	519.4	508.5	549.0	536.5
67.5°	5691.7	1461.8	550.5	637.6	590.9	514.7	514.7	516.3	507.0	545.8	533.4
70°	4949.9	1085.5	474.3	564.5	547.4	500.7	500.7	491.4	483.6	535.0	524.1
72.5°	4225.2	788.4	381.0	480.5	494.5	482.1	485.2	461.9	440.1	475.9	466.5
75°	3236.2	580.1	297.0	370.1	418.3	451.0	471.2	412.1	384.1	393.4	376.3
77.5°	1805.5	377.9	234.8	273.7	318.8	419.9	452.5	371.7	314.1	303.2	303.2
80°	612.7	220.8	172.6	203.7	219.3	371.7	423.0	301.7	247.3	236.4	228.6
82.5°	231.7	135.3	118.2	140.0	140.0	293.9	345.2	231.7	186.6	241.0	245.7
85°	105.7	80.9	77.8	80.9	80.9	180.4	244.2	150.8	168.0	144.6	127.5
87.5°	42.0	38.9	35.8	34.2	28.0	31.1	84.0	40.4	76.2	20.2	18.7
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)