

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: P477002

Luminaire Tested: **IFLD-S-SA6B-740-U-T2R**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P477002  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6B-740-U-T2R  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens  
Light Source: (96) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

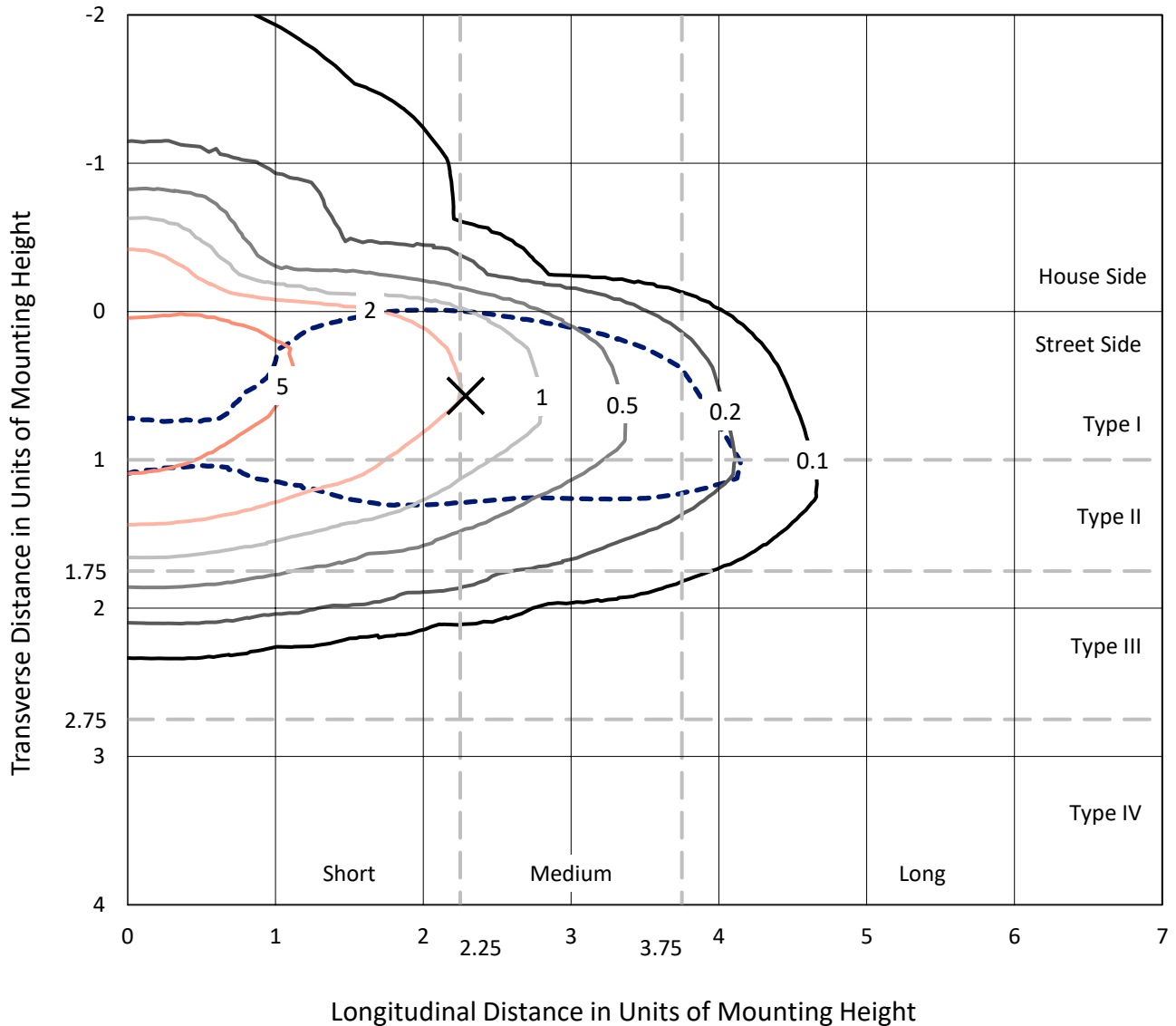
Lumens per Lamp: N/A  
Luminaire Lumens: 33567.3 lumens  
Efficiency: N/A  
Efficacy: 137.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G4

Input Watts (W): 244.9  
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

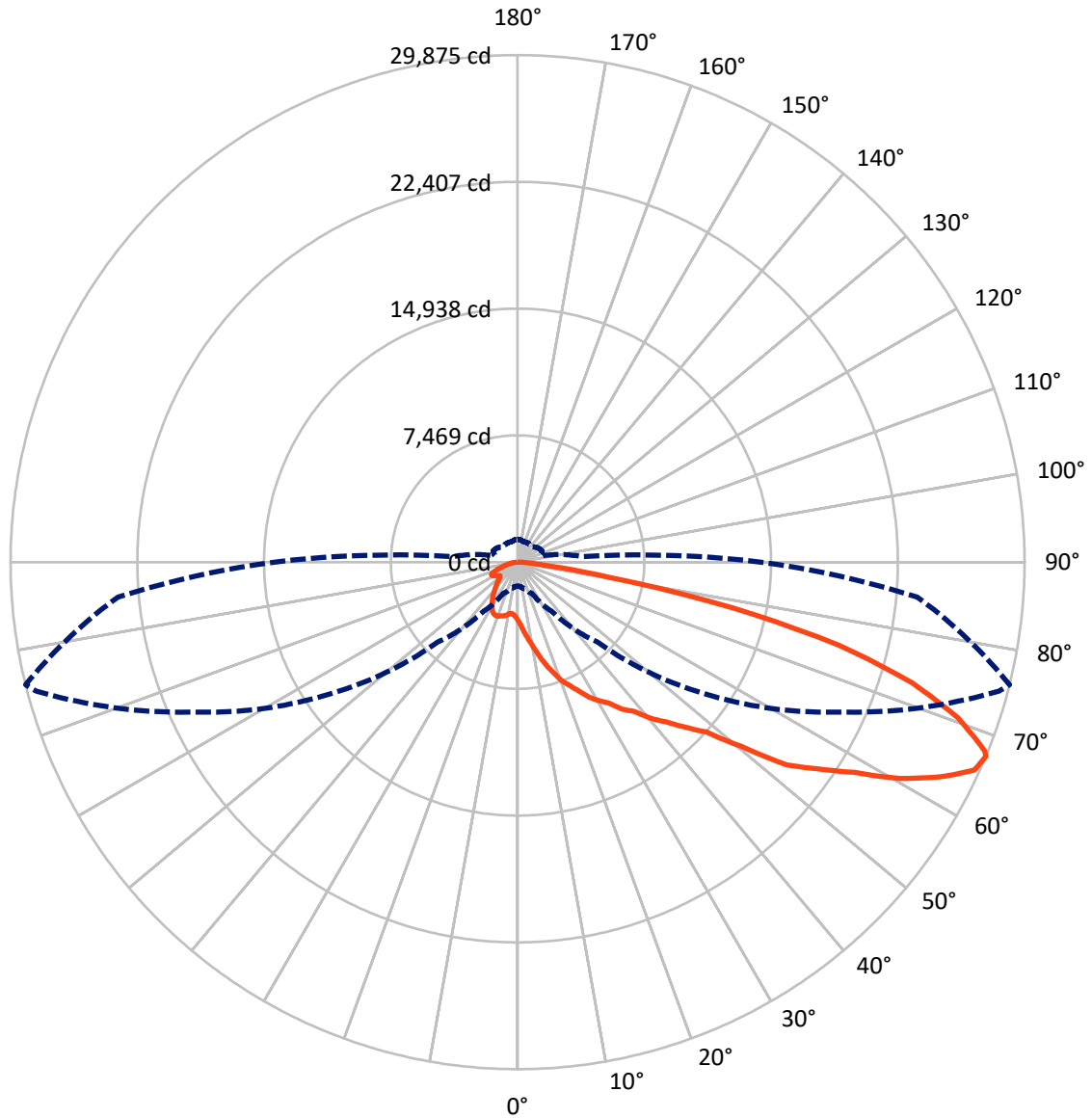
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.9 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	4775.4	0.0	4775.4
	% Fixture	14.2	0.0	14.2
<b>Street Side</b>	Lumens	28791.9	0.0	28791.9
	% Fixture	85.8	0.0	85.8
<b>Total</b>	Lumens	33567.3	0.0	33567.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	397.9	1.2
10°-20°	1492.4	4.4
20°-30°	2774.5	8.3
30°-40°	4398.2	13.1
40°-50°	6083.1	18.1
50°-60°	7482.6	22.3
60°-70°	6962.9	20.7
70°-80°	3493.9	10.4
80°-90°	481.8	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°	33567.3	100.0
0°-180°	33567.3	100.0

**Coefficient of Utilization**



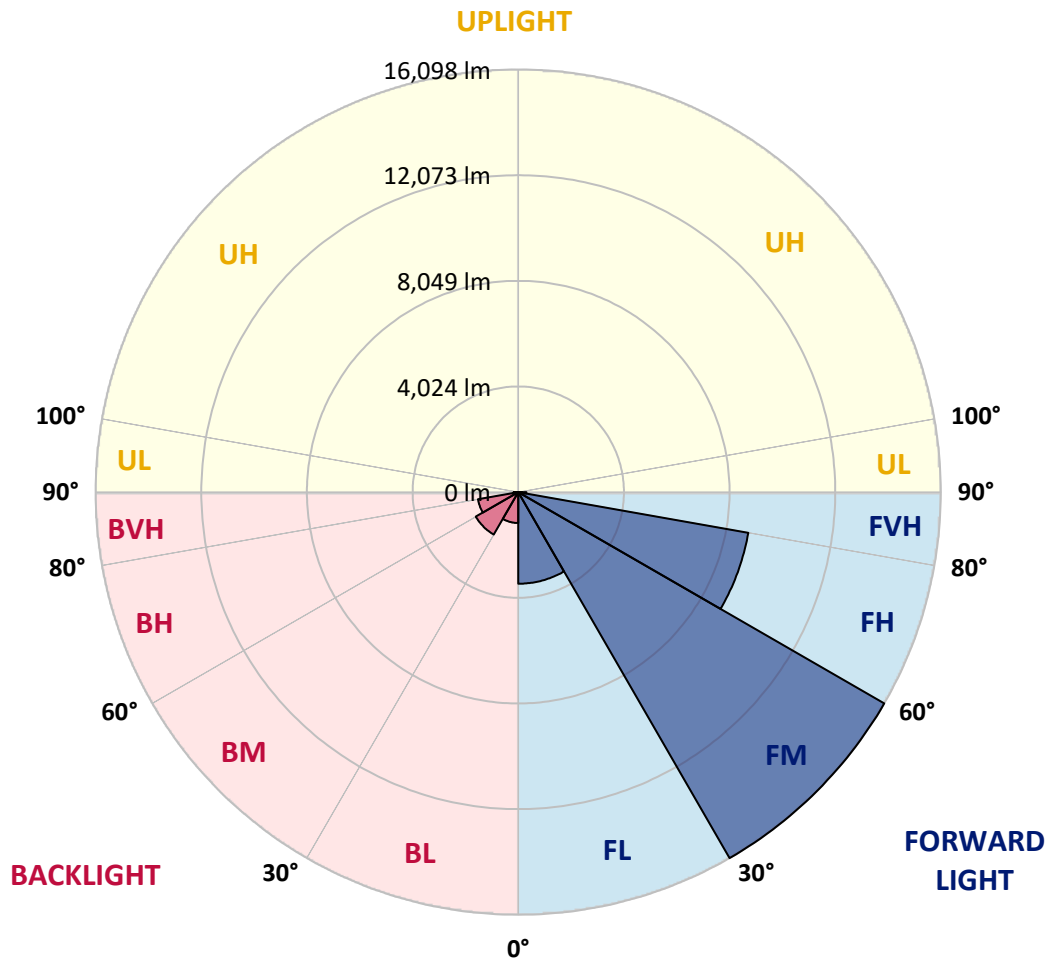
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3488.8	10.4			
FM (30°-60°)	16097.8	48.0			
FH (60°-80°)	8898.4	26.5			G4/12000
FVH (80°-90°)	306.9	0.9			G3/500
BL (0°-30°)	1176.0	3.5	B3/2500		
BM (30°-60°)	1866.1	5.6	B2/2500		
BH (60°-80°)	1558.4	4.6	B3/2500		G3/2500
BVH (80°-90°)	174.8	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3435.1	3435.1	3435.1	3435.1	3435.1	3435.1	3435.1	3435.1	3435.1	3435.1	3435.1
2.5°	4766.3	4708.9	4651.5	4529.1	4487.0	4372.3	4161.9	3928.6	3737.3	3710.5	3576.6
5°	5913.9	5829.7	5810.6	5741.7	5523.7	5301.8	4957.6	4582.7	4116.0	4150.4	3691.4
7.5°	6774.6	6724.8	6621.6	6556.5	6426.5	6131.9	5776.2	5278.9	4686.0	4571.2	3947.7
10°	7424.9	7356.0	7352.2	7294.8	7225.9	6923.7	6652.2	5982.7	5221.5	5064.7	4261.4
12.5°	7753.8	7742.4	7945.1	7945.1	7918.3	7792.1	7325.4	6713.4	5730.3	5676.7	4624.8
15°	8109.6	8014.0	8189.9	8323.8	8392.7	8457.7	8071.3	7424.9	6380.6	6277.3	5014.9
17.5°	8109.6	8101.9	8277.9	8499.8	8859.3	8943.5	8733.1	8079.0	6919.9	6843.4	5443.4
20°	7971.9	8082.8	8205.2	8503.6	8893.8	9234.2	9295.4	8748.4	7516.7	7455.5	5929.2
22.5°	8614.5	8507.4	8633.6	8748.4	9050.6	9567.0	9735.3	9337.5	8144.0	7910.7	6369.1
25°	9693.2	9620.6	9528.8	9360.4	9486.7	9712.4	9968.7	9773.6	8679.6	8419.4	6793.7
27.5°	10745.2	10749.0	10550.1	10182.9	9911.3	9957.2	10259.4	10156.1	9130.9	9016.2	7084.4
30°	12240.9	12149.1	11927.2	11429.9	10898.2	10462.1	10412.4	10511.9	9704.7	9482.9	7501.4
32.5°	13361.7	13380.8	13067.1	12351.8	11625.0	11269.3	10833.2	10875.3	10068.1	9903.6	7834.2
35°	14268.3	14245.3	14023.5	13430.5	12569.9	12141.4	11552.3	11311.3	10913.5	10653.4	8342.9
37.5°	15247.5	15060.1	14700.5	14031.1	13480.3	12887.4	12313.6	11770.4	11475.8	11162.2	8779.0
40°	15641.6	15641.6	15159.6	14853.5	14199.4	13751.9	13380.8	12374.8	12160.6	12099.3	9337.5
42.5°	15362.3	15534.4	15335.5	14987.4	14719.7	14153.5	14054.1	13002.1	13005.9	12883.5	10006.9
45°	15335.5	15098.4	14933.9	15021.9	14895.6	14865.0	15117.5	13870.4	13893.4	13878.1	10905.9
47.5°	14566.6	14459.5	14704.4	14849.7	14953.0	15427.3	16154.1	14907.1	15071.6	14956.8	11942.5
50°	13801.6	13782.5	13935.5	14463.4	14910.9	15691.3	17141.1	16506.1	17045.4	17037.8	13820.7
52.5°	11705.3	11908.1	12508.7	13625.6	14731.1	16050.9	17887.0	18548.8	19577.8	19857.0	15377.6
55°	9700.9	9593.8	10481.3	12103.2	13947.0	16192.4	18720.9	19776.7	21291.5	21494.2	16976.6
57.5°	7547.3	7746.2	8446.2	10003.1	12325.0	15492.4	19332.9	20989.3	23227.1	23383.9	18831.8
60°	5630.8	5657.6	6426.5	7681.2	10167.6	13912.5	19531.9	22232.5	25445.7	25893.3	20775.1
62.5°	3542.2	3702.9	4288.1	5523.7	7654.4	11701.5	18640.6	22986.1	27771.5	27890.1	22733.6
65°	1908.8	2012.1	2452.0	3228.5	5347.7	8851.7	16276.5	22534.7	28865.5	29569.4	23605.8
67°	1411.5	1430.7	1633.4	2061.8	3576.6	6663.6	13572.1	20901.3	29362.8	29875.4	23640.2
67.5°	1323.5	1350.3	1511.0	1851.4	3171.2	6135.7	12864.4	20319.9	29140.9	29691.8	23372.4
70°	1132.3	1139.9	1178.2	1273.8	1778.8	3691.4	8759.9	16651.4	27010.3	27538.2	21494.2
72.5°	1006.0	1013.7	1029.0	1048.1	1205.0	2134.5	5328.6	12814.7	23475.7	24317.3	18544.9
75°	883.6	910.4	918.1	902.8	1025.2	1388.6	2834.5	9417.8	19149.3	19558.6	14421.3
77.5°	749.8	761.2	776.5	791.8	914.2	1036.6	1361.8	6357.6	13143.6	12895.0	7799.7
80°	631.2	635.0	646.5	657.9	791.8	791.8	772.7	3435.1	5741.7	5489.3	2635.6
82.5°	451.4	478.2	504.9	535.5	657.9	531.7	504.9	1530.1	1817.0	1729.0	891.3
85°	176.0	214.2	332.8	367.2	417.0	286.9	336.6	661.8	757.4	749.8	332.8
87.5°	30.6	34.4	91.8	141.5	153.0	99.5	160.7	237.2	283.1	306.0	122.4
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°	3435.1	3435.1	3435.1	3435.1	3435.1	3435.1	3435.1	3435.1	3435.1	3435.1	3435.1
2.5°	3465.7	3347.1	3205.6	3064.0	2972.2	2826.9	2815.4	2727.4	2715.9	2685.3	2700.6
5°	3492.5	3350.9	3064.0	2838.4	2735.1	2650.9	2670.0	2631.8	2620.3	2601.2	2570.6
7.5°	3702.9	3423.6	2995.2	2800.1	2723.6	2685.3	2685.3	2639.4	2605.0	2628.0	2650.9
10°	3840.6	3458.0	3048.7	2853.7	2792.5	2708.3	2738.9	2681.5	2700.6	2654.7	2654.7
12.5°	4062.4	3653.1	3159.7	2934.0	2834.5	2758.0	2788.6	2723.6	2708.3	2712.1	2700.6
15°	4360.8	3783.2	3209.4	2979.9	2911.0	2815.4	2792.5	2735.1	2677.7	2658.6	2681.5
17.5°	4640.1	3943.9	3243.8	3006.7	2895.7	2788.6	2761.8	2689.2	2670.0	2612.7	2566.8
20°	4972.9	4135.1	3289.7	3029.6	2838.4	2731.2	2662.4	2589.7	2524.7	2490.3	2505.6
22.5°	5194.7	4234.6	3312.7	2983.7	2754.2	2654.7	2509.4	2459.7	2367.8	2329.6	2299.0
25°	5558.1	4357.0	3255.3	2857.5	2605.0	2444.4	2314.3	2245.4	2180.4	2130.7	2115.4
27.5°	5649.9	4448.8	3121.4	2643.3	2367.8	2199.5	2088.6	2004.4	1962.4	1885.9	1870.6
30°	5917.7	4357.0	2922.5	2383.1	2142.2	1970.0	1859.1	1797.9	1698.4	1679.3	1637.2
32.5°	6089.8	4383.8	2670.0	2130.7	1882.0	1729.0	1656.3	1595.1	1568.4	1476.6	1453.6
35°	6376.7	4292.0	2413.7	1897.3	1667.8	1549.2	1488.0	1468.9	1380.9	1338.8	1300.6
37.5°	6560.3	4238.4	2157.5	1633.4	1434.5	1384.7	1403.9	1323.5	1216.4	1136.1	1109.3
40°	6881.7	4219.3	1866.7	1415.4	1273.8	1262.3	1323.5	1170.5	975.4	906.6	868.3
42.5°	7344.5	4089.2	1641.0	1220.3	1147.6	1197.3	1208.8	975.4	864.5	807.1	780.4
45°	7788.3	4116.0	1419.2	1009.9	998.4	1071.1	1044.3	826.3	761.2	719.2	742.1
47.5°	8641.3	4249.9	1201.1	841.6	898.9	967.8	811.0	738.3	677.1	646.5	650.3
50°	9961.0	4379.9	1009.9	768.9	849.2	876.0	696.2	669.4	665.6	604.4	600.6
52.5°	10752.8	4330.2	975.4	860.7	910.4	876.0	757.4	738.3	707.7	680.9	650.3
55°	12011.4	4475.6	1048.1	1006.0	1032.8	841.6	849.2	841.6	818.6	749.8	768.9
57.5°	13013.6	4571.2	1143.8	1124.6	1109.3	876.0	887.5	891.3	876.0	845.4	872.2
60°	14390.7	4762.5	1243.2	1247.0	1250.9	952.5	971.6	994.6	990.7	979.3	986.9
62.5°	15236.1	4674.5	1354.1	1415.4	1396.2	1109.3	1105.5	1120.8	1120.8	1139.9	1151.4
65°	15109.8	4349.3	1411.5	1564.5	1465.1	1224.1	1224.1	1231.7	1235.6	1273.8	1277.6
67°	14352.4	3767.9	1380.9	1587.5	1465.1	1270.0	1270.0	1277.6	1250.9	1350.3	1319.7
67.5°	14000.5	3595.8	1354.1	1568.4	1453.6	1266.2	1266.2	1270.0	1247.0	1342.7	1312.1
70°	12175.9	2670.0	1166.7	1388.6	1346.5	1231.7	1231.7	1208.8	1189.7	1315.9	1289.1
72.5°	10393.3	1939.4	937.2	1182.0	1216.4	1185.8	1193.5	1136.1	1082.6	1170.5	1147.6
75°	7960.4	1426.8	730.6	910.4	1029.0	1109.3	1159.1	1013.7	944.8	967.8	925.7
77.5°	4441.1	929.5	577.6	673.2	784.2	1032.8	1113.2	914.2	772.7	745.9	745.9
80°	1507.2	543.2	424.6	501.1	539.4	914.2	1040.5	742.1	608.2	581.4	562.3
82.5°	570.0	332.8	290.7	344.3	344.3	723.0	849.2	570.0	459.0	592.9	604.4
85°	260.1	198.9	191.3	198.9	198.9	443.7	600.6	371.1	413.1	355.8	313.7
87.5°	103.3	95.6	88.0	84.2	68.9	76.5	206.6	99.5	187.4	49.7	45.9
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)