

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: P476634

Luminaire Tested: **IFLD-S-SA2E-750-U-T2**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P476634  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2E-750-U-T2  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens  
Light Source: (32) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

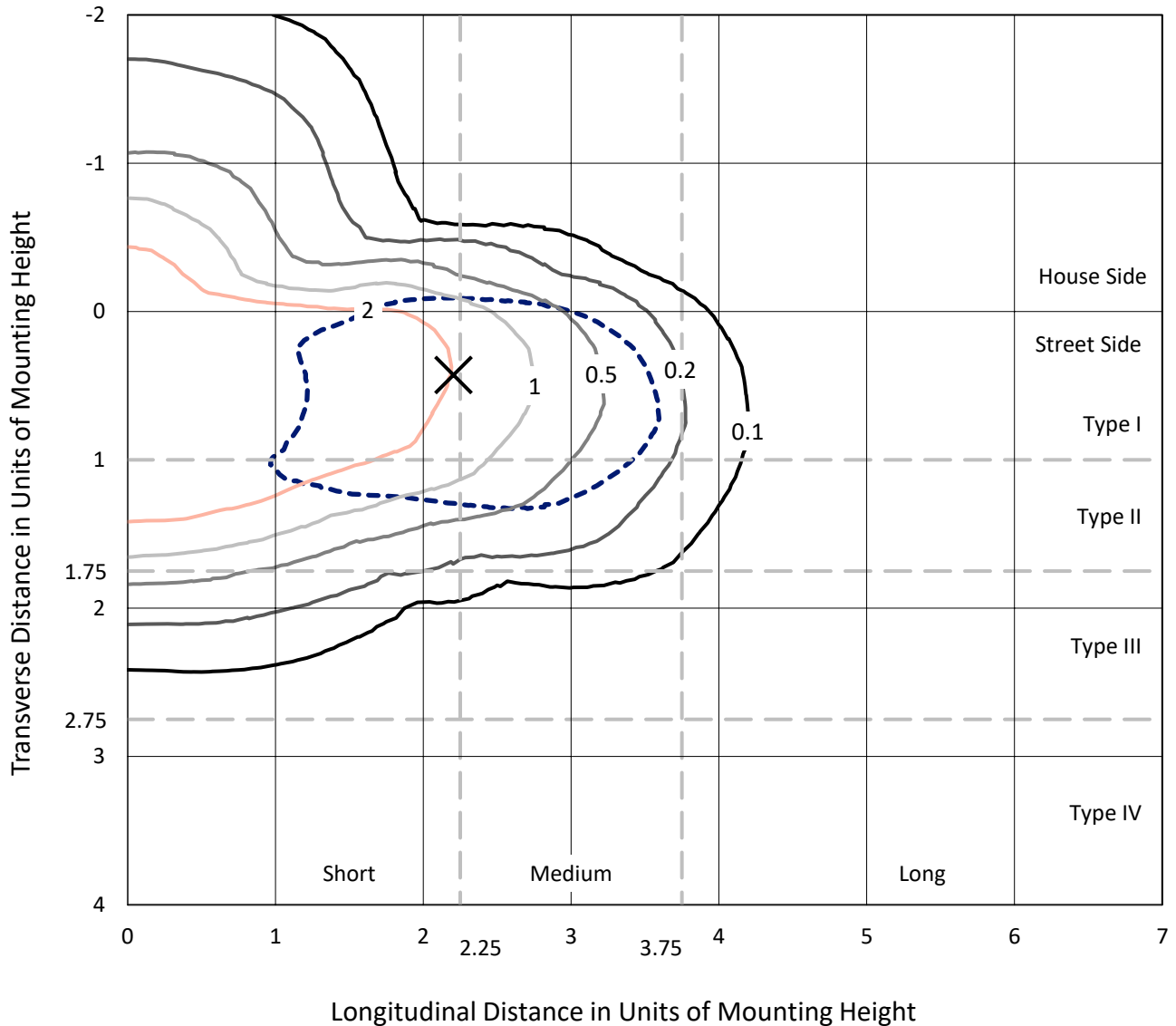
Lumens per Lamp: N/A  
Luminaire Lumens: 18491.5 lumens  
Efficiency: N/A  
Efficacy: 118.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

Input Watts (W): 156.2  
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

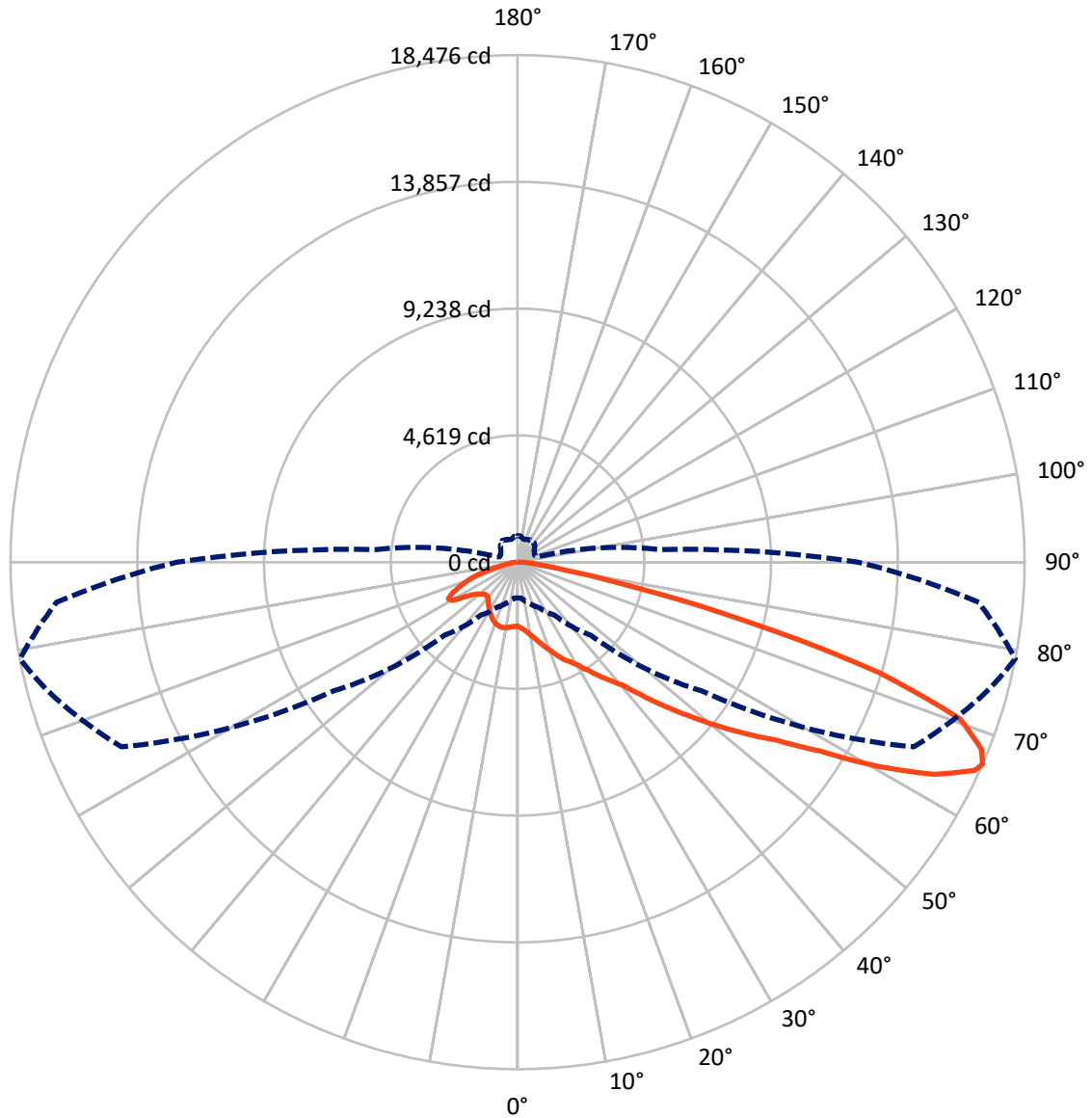
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral      - - - Horizontal Cone Through 66-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3734.1	0.0	3734.1
	% Fixture	20.2	0.0	20.2
<b>Street Side</b>	Lumens	14757.4	0.0	14757.4
	% Fixture	79.8	0.0	79.8
<b>Total</b>	Lumens	18491.5	0.0	18491.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	229.6	1.2
10°-20°	709.0	3.8
20°-30°	1217.0	6.6
30°-40°	1880.0	10.2
40°-50°	3011.3	16.3
50°-60°	4496.1	24.3
60°-70°	4619.7	25.0
70°-80°	2047.9	11.1
80°-90°	281.0	1.5
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°	18491.5	100.0
0°-180°	18491.5	100.0

**Coefficient of Utilization**



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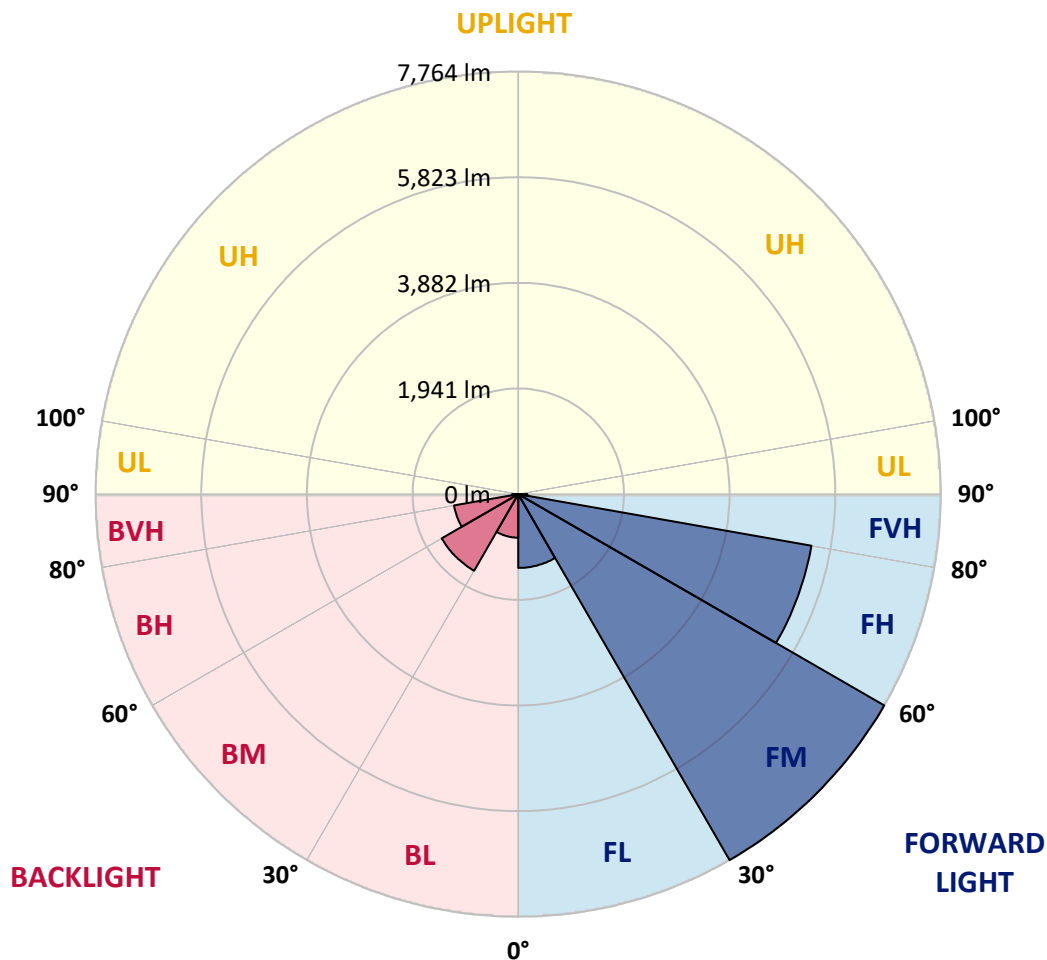
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1355.5	7.3			
FM (30°-60°)	7764.0	42.0			
FH (60°-80°)	5469.4	29.6			G3/7500
FVH (80°-90°)	168.5	0.9			G2/225
BL (0°-30°)	800.0	4.3	B2/1000		
BM (30°-60°)	1623.4	8.8	B2/2500		
BH (60°-80°)	1198.2	6.5	B3/2500		G3/2500
BVH (80°-90°)	112.5	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	2335.0	2335.0	2335.0	2335.0	2335.0	2335.0	2335.0	2335.0	2335.0	2335.0	2335.0
2.5°	2483.4	2485.5	2485.5	2477.3	2479.4	2485.5	2463.1	2414.3	2414.3	2406.2	2391.9
5°	2636.0	2625.8	2611.6	2613.6	2605.5	2605.5	2581.1	2534.3	2493.6	2477.3	2434.6
7.5°	2656.3	2666.5	2664.5	2688.9	2701.1	2701.1	2713.3	2674.6	2613.6	2575.0	2532.3
10°	2697.0	2670.6	2668.5	2725.5	2743.8	2786.5	2835.3	2815.0	2764.1	2709.2	2652.3
12.5°	2721.4	2737.7	2737.7	2766.2	2808.9	2871.9	2957.3	2996.0	2916.7	2859.7	2772.3
15°	2758.0	2735.6	2800.7	2825.1	2906.5	2951.2	3073.3	3172.9	3120.1	3050.9	2912.6
17.5°	2774.3	2760.1	2796.7	2841.4	2979.7	3046.8	3195.3	3333.6	3288.9	3244.1	3101.8
20°	2857.7	2855.7	2871.9	2908.5	3008.2	3140.4	3325.5	3516.7	3533.0	3451.6	3258.4
22.5°	3061.1	3034.6	3034.6	3020.4	3063.1	3199.4	3449.6	3714.0	3787.2	3691.6	3435.3
25°	3248.2	3284.8	3262.4	3197.4	3181.1	3252.3	3539.1	3923.5	4021.1	3931.6	3675.3
27.5°	3488.2	3500.4	3539.1	3451.6	3339.7	3362.1	3636.7	4041.4	4242.8	4122.8	3811.6
30°	3834.0	3811.6	3803.5	3705.8	3559.4	3528.9	3748.6	4214.3	4533.7	4364.8	3972.3
32.5°	4067.9	4122.8	4120.8	3986.5	3809.6	3742.4	3886.9	4377.0	4844.8	4688.2	4269.2
35°	4531.6	4588.6	4543.8	4346.5	4139.1	4004.8	4086.2	4588.6	5200.8	5078.7	4521.4
37.5°	5123.5	5257.7	5162.1	4798.1	4505.2	4358.7	4362.8	4818.4	5564.9	5465.2	4792.0
40°	5532.3	5713.3	5581.1	5239.4	4928.2	4789.9	4735.0	5091.0	6000.1	5894.4	5215.0
42.5°	6038.8	6189.3	6120.1	5782.5	5418.4	5300.4	5190.6	5546.6	6665.2	6616.4	5758.1
45°	6592.0	6663.2	6640.8	6427.3	6022.5	5981.8	5739.8	6146.6	7448.3	7468.6	6437.4
47.5°	7106.6	7145.2	7187.9	7033.4	6781.2	6815.7	6372.3	6789.3	8209.0	8343.2	7194.0
50°	7238.8	7371.0	7470.7	7574.4	7629.3	7863.2	7070.0	7578.5	9083.6	9343.9	8036.1
52.5°	7104.6	7094.4	7397.4	7722.9	8272.0	8762.2	8019.8	8558.8	9856.5	10371.1	8807.0
55°	6494.4	6474.0	6962.2	7393.4	8465.3	9262.6	9376.5	9864.6	10790.1	11459.2	9850.4
57.5°	5426.6	5300.4	5833.3	6541.2	8046.3	9317.5	10739.2	11803.0	12226.0	12988.7	11442.9
60°	3646.9	3594.0	4104.5	4948.6	6533.0	8538.5	11554.8	14229.4	14249.8	15108.1	13914.2
62.5°	2245.5	2255.6	2583.1	3215.7	4574.3	6769.0	11202.9	16167.8	16171.9	17032.2	15948.1
65°	1468.5	1474.6	1739.0	2088.9	2857.7	4590.6	9264.6	16320.3	17508.2	18307.5	16879.7
66°	1307.8	1309.9	1537.7	1822.4	2367.5	3756.7	8182.5	15923.7	17809.2	18476.3	16867.5
67.5°	1102.4	1128.8	1311.9	1531.6	1846.8	2699.0	6492.3	14776.6	17654.6	18240.4	16485.1
70°	862.4	876.6	1021.0	1244.8	1385.1	1562.1	3858.4	12045.0	16159.7	17109.5	15093.9
72.5°	691.5	703.7	813.6	1010.9	1124.8	1029.2	2101.1	8739.8	12765.0	13777.9	11872.1
75°	583.7	585.8	638.7	795.3	925.4	772.9	1118.7	5609.6	8190.7	8662.6	7273.4
77.5°	471.9	480.0	516.6	606.1	744.4	608.1	667.1	3142.4	4112.6	4147.2	3362.1
80°	384.4	388.5	410.9	441.4	567.5	449.5	451.5	1533.6	1763.4	1722.7	1366.8
82.5°	303.1	307.1	333.6	327.5	417.0	321.4	280.7	738.3	811.5	795.3	628.5
85°	170.9	170.9	262.4	262.4	264.4	203.4	170.9	347.8	429.2	400.7	294.9
87.5°	54.9	57.0	79.3	83.4	132.2	91.5	83.4	130.2	203.4	179.0	105.8
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°	2335.0	2335.0	2335.0	2335.0	2335.0	2335.0	2335.0	2335.0	2335.0	2335.0	2335.0
2.5°	2383.8	2351.2	2337.0	2290.2	2278.0	2247.5	2233.3	2215.0	2208.9	2182.4	2206.8
5°	2402.1	2391.9	2335.0	2276.0	2231.2	2210.9	2180.4	2139.7	2135.6	2099.0	2095.0
7.5°	2479.4	2444.8	2345.1	2282.1	2192.6	2141.7	2074.6	2054.3	2027.8	2015.6	2042.1
10°	2599.4	2511.9	2363.4	2204.8	2095.0	2033.9	1985.1	1970.9	1972.9	1964.8	1952.6
12.5°	2684.8	2601.4	2332.9	2139.7	1997.3	1938.3	1934.3	1948.5	1970.9	1960.7	1975.0
15°	2806.8	2650.2	2310.6	2031.9	1918.0	1901.7	1899.7	1942.4	1940.4	1940.4	1938.3
17.5°	2920.7	2699.0	2229.2	1938.3	1834.6	1846.8	1861.1	1859.0	1879.4	1887.5	1901.7
20°	3065.1	2756.0	2115.3	1844.8	1771.6	1767.5	1765.5	1767.5	1787.8	1800.0	1789.9
22.5°	3191.3	2768.2	2019.7	1755.3	1696.3	1680.0	1653.6	1680.0	1669.9	1673.9	1686.1
25°	3301.1	2770.2	1883.4	1688.2	1621.1	1584.4	1564.1	1562.1	1543.8	1541.7	1541.7
27.5°	3392.6	2701.1	1763.4	1594.6	1531.6	1497.0	1494.9	1472.6	1425.8	1395.3	1399.4
30°	3463.8	2648.2	1680.0	1513.3	1452.2	1446.1	1427.8	1377.0	1316.0	1277.3	1277.3
32.5°	3589.9	2542.4	1566.1	1429.9	1399.4	1391.2	1348.5	1303.8	1246.8	1210.2	1204.1
35°	3683.5	2444.8	1490.9	1358.7	1344.4	1328.2	1291.6	1242.7	1226.5	1218.3	1224.4
37.5°	3789.2	2335.0	1399.4	1297.7	1311.9	1281.4	1238.7	1216.3	1273.2	1259.0	1265.1
40°	3958.0	2257.7	1309.9	1261.0	1275.3	1240.7	1185.8	1177.7	1248.8	1198.0	1185.8
42.5°	4267.2	2255.6	1254.9	1206.1	1216.3	1189.9	1141.0	1137.0	1165.4	1104.4	1086.1
45°	4651.6	2326.8	1214.3	1165.4	1157.3	1153.2	1137.0	1118.7	1094.3	1014.9	994.6
47.5°	5111.3	2442.8	1206.1	1104.4	1114.6	1149.2	1128.8	1082.1	1019.0	968.2	958.0
50°	5668.6	2682.8	1185.8	1059.7	1078.0	1132.9	1116.6	1051.5	994.6	962.1	956.0
52.5°	6284.9	2985.8	1159.3	990.5	1031.2	1118.7	1126.8	1065.8	982.4	953.9	949.9
55°	7011.0	3433.3	1128.8	915.3	976.3	1104.4	1126.8	1025.1	966.1	966.1	962.1
57.5°	8444.9	4238.7	1065.8	846.1	927.5	1078.0	1094.3	1027.1	968.2	968.2	960.0
60°	10548.0	5495.7	945.8	793.2	880.7	1041.4	1069.9	996.6	945.8	958.0	956.0
62.5°	12193.5	5878.1	844.1	742.4	833.9	974.3	1037.3	964.1	919.3	964.1	968.2
65°	12545.3	5491.6	740.4	687.5	768.8	909.2	990.5	917.3	880.7	968.2	972.2
66°	12419.2	5190.6	703.7	671.2	740.4	876.6	962.1	901.0	860.4	964.1	966.1
67.5°	11857.9	4739.1	663.1	636.6	701.7	829.8	929.5	878.7	827.8	951.9	933.6
70°	10637.5	4019.1	593.9	575.6	646.8	752.6	854.3	821.7	777.0	876.6	844.1
72.5°	8192.7	3211.6	520.7	522.7	583.7	673.2	779.0	756.6	718.0	768.8	748.5
75°	4989.3	2052.2	453.6	457.6	508.5	598.0	707.8	691.5	644.8	673.2	663.1
77.5°	2210.9	1017.0	382.4	390.5	431.2	526.8	616.3	589.8	541.0	547.1	543.1
80°	858.3	482.0	311.2	321.4	347.8	421.0	510.5	486.1	443.4	435.3	431.2
82.5°	412.9	268.5	240.0	244.1	254.2	335.6	439.3	408.8	351.9	315.3	315.3
85°	207.5	166.8	168.8	154.6	168.8	227.8	297.0	248.1	205.4	183.1	187.1
87.5°	83.4	83.4	83.4	71.2	75.3	107.8	138.3	93.6	85.4	50.8	50.8
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)