

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: P476638

Luminaire Tested: **IFLD-S-SA3D-750-U-T2**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P476638  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3D-750-U-T2  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens  
Light Source: (48) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

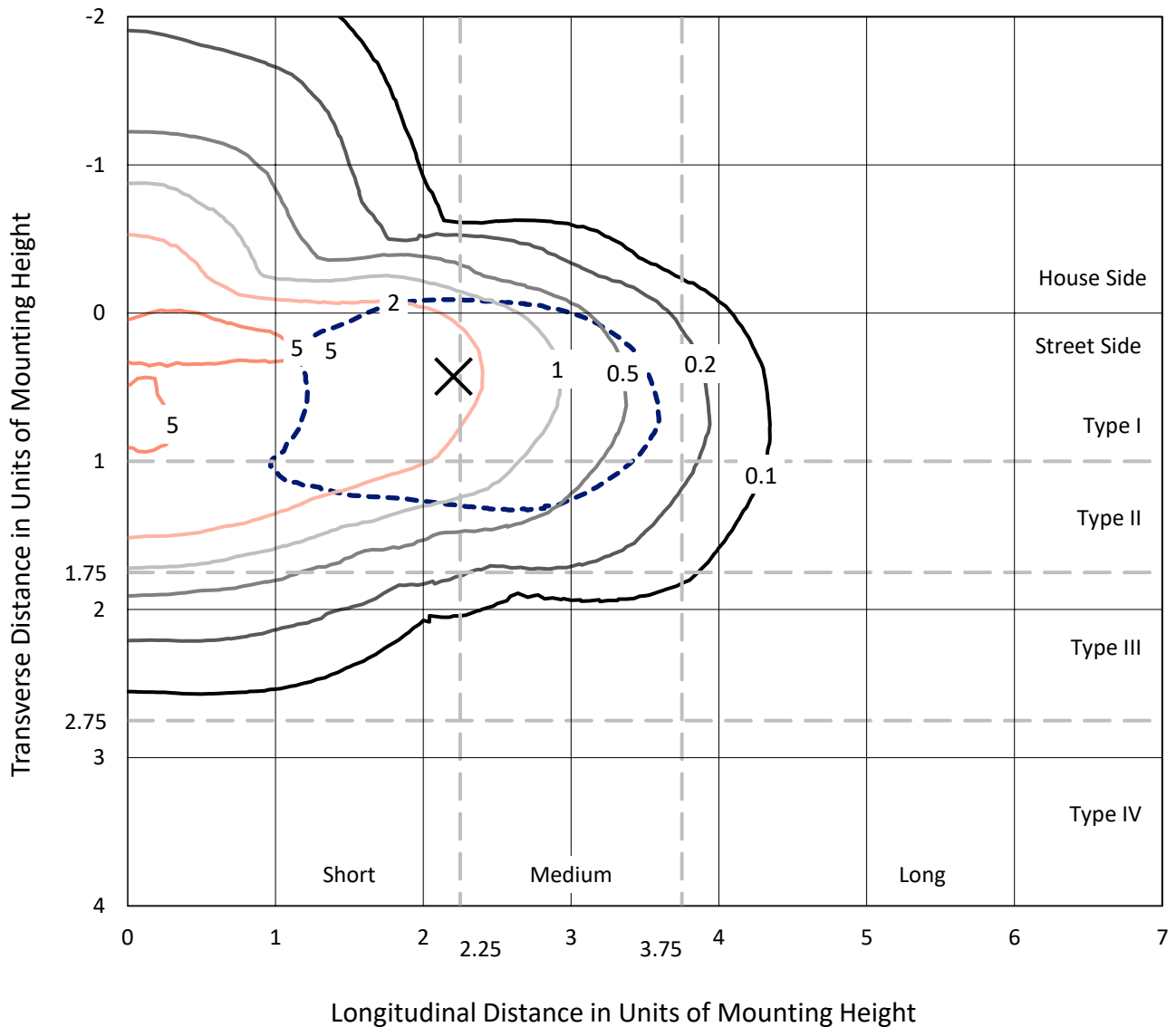
Lumens per Lamp: N/A  
Luminaire Lumens: 23812 lumens  
Efficiency: N/A  
Efficacy: 129.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

Input Watts (W): 184.1  
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

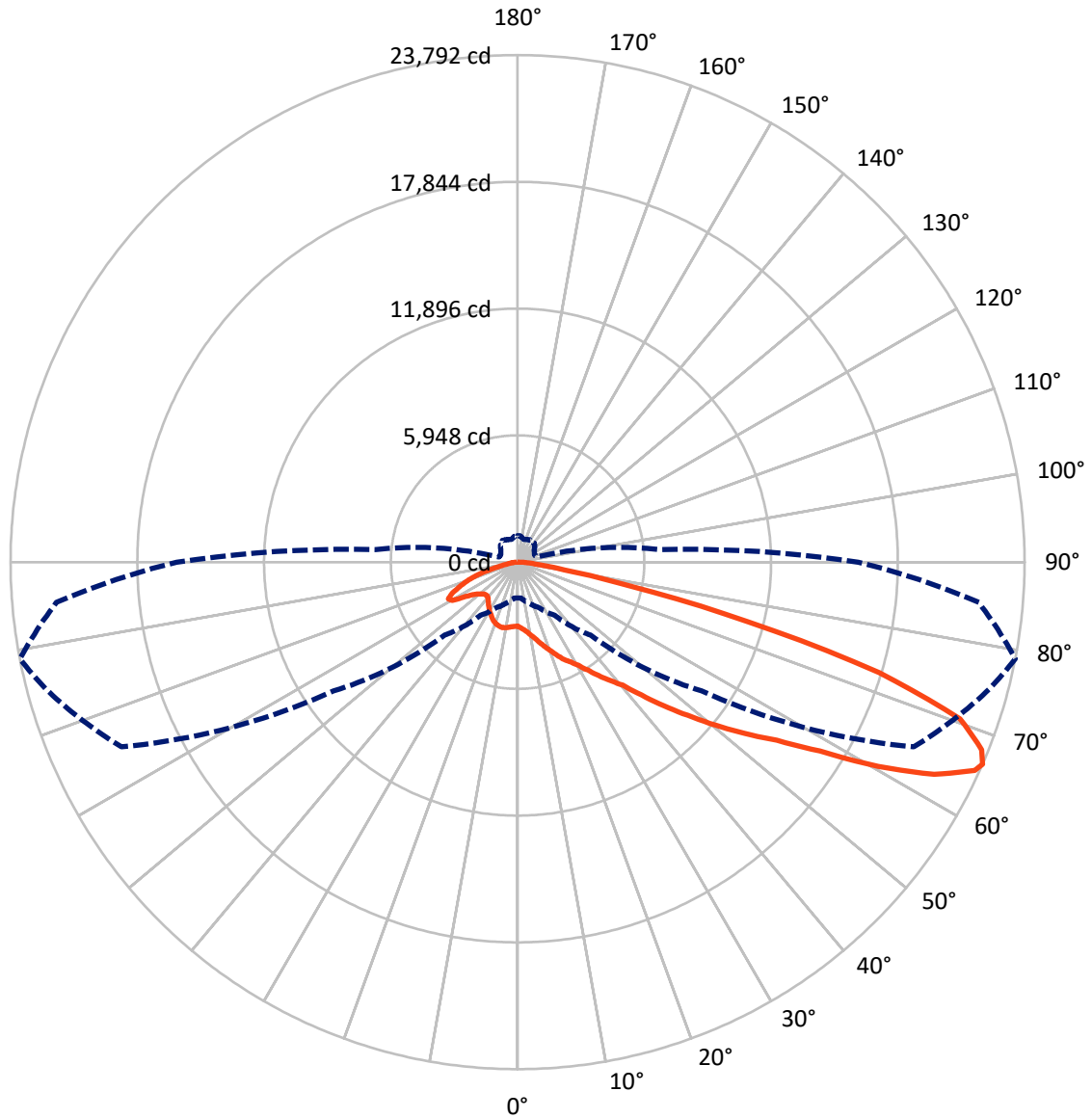
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 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	4808.5	0.0	4808.5
	% Fixture	20.2	0.0	20.2
<b>Street Side</b>	Lumens	19003.5	0.0	19003.5
	% Fixture	79.8	0.0	79.8
<b>Total</b>	Lumens	23812.0	0.0	23812.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	295.7	1.2
10°-20°	913.0	3.8
20°-30°	1567.1	6.6
30°-40°	2420.9	10.2
40°-50°	3877.7	16.3
50°-60°	5789.7	24.3
60°-70°	5948.9	25.0
70°-80°	2637.1	11.1
80°-90°	361.8	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°	23812.0	100.0
0°-180°	23812.0	100.0

**Coefficient of Utilization**



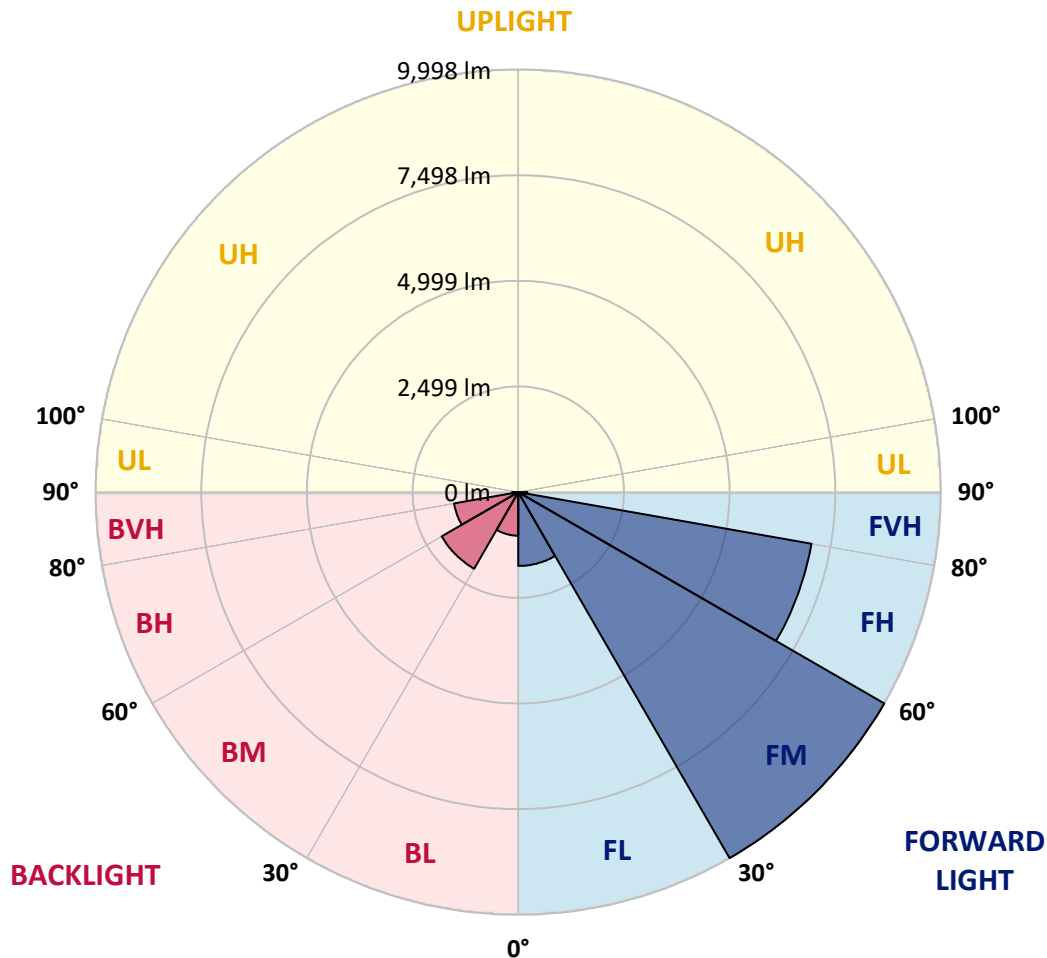
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1745.6	7.3			
FM (30°-60°)	9997.8	42.0			
FH (60°-80°)	7043.0	29.6			G3/7500
FVH (80°-90°)	217.0	0.9			G2/225
BL (0°-30°)	1030.2	4.3	B3/2500		
BM (30°-60°)	2090.5	8.8	B2/2500		
BH (60°-80°)	1543.0	6.5	B3/2500		G3/2500
BVH (80°-90°)	144.8	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°	3006.8	3006.8	3006.8	3006.8	3006.8	3006.8	3006.8	3006.8	3006.8	3006.8	3006.8
2.5°	3198.0	3200.6	3200.6	3190.1	3192.8	3200.6	3171.8	3108.9	3108.9	3098.5	3080.1
5°	3394.4	3381.3	3363.0	3365.6	3355.1	3355.1	3323.7	3263.5	3211.1	3190.1	3135.1
7.5°	3420.6	3433.7	3431.1	3462.5	3478.2	3478.2	3494.0	3444.2	3365.6	3315.9	3260.8
10°	3473.0	3439.0	3436.3	3509.7	3533.2	3588.2	3651.1	3624.9	3559.4	3488.7	3415.4
12.5°	3504.4	3525.4	3525.4	3562.1	3617.1	3698.2	3808.3	3858.0	3755.9	3682.5	3569.9
15°	3551.6	3522.8	3606.6	3638.0	3742.8	3800.4	3957.5	4085.9	4017.8	3928.7	3750.6
17.5°	3572.5	3554.2	3601.3	3659.0	3837.1	3923.5	4114.7	4292.8	4235.2	4177.6	3994.2
20°	3679.9	3677.3	3698.2	3745.4	3873.7	4044.0	4282.3	4528.5	4549.5	4444.7	4195.9
22.5°	3941.8	3907.8	3907.8	3889.4	3944.4	4119.9	4442.1	4782.6	4876.9	4753.8	4423.8
25°	4182.8	4229.9	4201.1	4117.3	4096.4	4188.0	4557.3	5052.4	5178.1	5062.8	4732.8
27.5°	4491.9	4507.6	4557.3	4444.7	4300.7	4329.5	4683.1	5204.3	5463.6	5309.0	4908.3
30°	4937.1	4908.3	4897.8	4772.1	4583.5	4544.2	4827.1	5426.9	5838.1	5620.7	5115.2
32.5°	5238.3	5309.0	5306.4	5133.5	4905.7	4819.2	5005.2	5636.4	6238.8	6037.2	5497.6
35°	5835.5	5908.8	5851.2	5597.1	5330.0	5157.1	5261.9	5908.8	6697.2	6540.0	5822.4
37.5°	6597.7	6770.5	6647.4	6178.6	5801.4	5612.9	5618.1	6204.8	7166.0	7037.7	6170.7
40°	7124.1	7357.2	7187.0	6746.9	6346.2	6168.1	6097.4	6555.7	7726.5	7590.3	6715.5
42.5°	7776.3	7970.1	7881.0	7446.3	6977.4	6825.5	6684.1	7142.4	8583.0	8520.1	7414.8
45°	8488.7	8580.4	8551.5	8276.5	7755.3	7702.9	7391.3	7915.1	9591.3	9617.5	8289.6
47.5°	9151.3	9201.1	9256.1	9057.0	8732.3	8776.8	8205.8	8742.7	10570.9	10743.8	9264.0
50°	9321.6	9491.8	9620.2	9753.7	9824.5	10125.7	9104.2	9759.0	11697.2	12032.4	10348.3
52.5°	9148.7	9135.6	9525.9	9944.9	10652.1	11283.3	10327.3	11021.4	12692.4	13355.1	11340.9
55°	8363.0	8336.8	8965.4	9520.6	10900.9	11927.6	12074.3	12702.9	13894.6	14756.3	12684.6
57.5°	6987.9	6825.5	7511.7	8423.2	10361.4	11998.4	13829.1	15199.0	15743.7	16725.9	14735.4
60°	4696.1	4628.0	5285.5	6372.4	8412.7	10995.2	14879.4	18323.6	18349.8	19455.1	17917.6
62.5°	2891.5	2904.6	3326.3	4140.9	5890.5	8716.6	14426.3	20819.7	20824.9	21932.8	20536.8
65°	1891.0	1898.9	2239.4	2689.9	3679.9	5911.4	11930.3	21016.1	22545.7	23575.0	21736.4
66°	1684.1	1686.7	1980.1	2346.8	3048.7	4837.6	10536.9	20505.4	22933.3	23792.4	21720.7
67.5°	1419.6	1453.6	1689.4	1972.2	2378.2	3475.6	8360.3	19028.2	22734.3	23488.6	21228.3
70°	1110.5	1128.9	1314.8	1602.9	1783.6	2011.5	4968.5	15510.6	20809.2	22032.3	19436.8
72.5°	890.5	906.2	1047.7	1301.7	1448.4	1325.3	2705.6	11254.5	16437.8	17742.2	15288.0
75°	751.7	754.3	822.4	1024.1	1191.7	995.3	1440.5	7223.6	10547.3	11155.0	9366.1
77.5°	607.6	618.1	665.3	780.5	958.6	783.1	859.1	4046.6	5295.9	5340.5	4329.5
80°	495.0	500.3	529.1	568.4	730.7	578.8	581.5	1974.8	2270.8	2218.4	1760.1
82.5°	390.3	395.5	429.5	421.7	536.9	413.8	361.4	950.8	1045.0	1024.1	809.3
85°	220.0	220.0	337.9	337.9	340.5	261.9	220.0	447.9	552.6	516.0	379.8
87.5°	70.7	73.3	102.1	107.4	170.2	117.9	107.4	167.6	261.9	230.5	136.2
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°	3006.8	3006.8	3006.8	3006.8	3006.8	3006.8	3006.8	3006.8	3006.8	3006.8	3006.8
2.5°	3069.7	3027.7	3009.4	2949.2	2933.5	2894.2	2875.8	2852.3	2844.4	2810.4	2841.8
5°	3093.2	3080.1	3006.8	2930.8	2873.2	2847.0	2807.7	2755.4	2750.1	2703.0	2697.7
7.5°	3192.8	3148.2	3019.9	2938.7	2823.5	2758.0	2671.5	2645.3	2611.3	2595.6	2629.6
10°	3347.3	3234.7	3043.5	2839.2	2697.7	2619.2	2556.3	2538.0	2540.6	2530.1	2514.4
12.5°	3457.3	3349.9	3004.2	2755.4	2572.0	2496.1	2490.8	2509.2	2538.0	2524.9	2543.2
15°	3614.4	3412.8	2975.4	2616.5	2469.9	2448.9	2446.3	2501.3	2498.7	2498.7	2496.1
17.5°	3761.1	3475.6	2870.6	2496.1	2362.5	2378.2	2396.5	2393.9	2420.1	2430.6	2448.9
20°	3947.1	3549.0	2723.9	2375.6	2281.3	2276.0	2273.4	2276.0	2302.2	2318.0	2304.9
22.5°	4109.5	3564.7	2600.8	2260.3	2184.4	2163.4	2129.4	2163.4	2150.3	2155.6	2171.3
25°	4250.9	3567.3	2425.3	2173.9	2087.5	2040.3	2014.1	2011.5	1987.9	1985.3	1985.3
27.5°	4368.8	3478.2	2270.8	2053.4	1972.2	1927.7	1925.1	1896.3	1836.0	1796.7	1802.0
30°	4460.4	3410.1	2163.4	1948.7	1870.1	1862.2	1838.6	1773.2	1694.6	1644.8	1644.8
32.5°	4622.8	3273.9	2016.8	1841.3	1802.0	1791.5	1736.5	1678.9	1605.5	1558.4	1550.5
35°	4743.3	3148.2	1919.8	1749.6	1731.3	1710.3	1663.2	1600.3	1579.4	1568.9	1576.7
37.5°	4879.5	3006.8	1802.0	1671.0	1689.4	1650.1	1595.1	1566.3	1639.6	1621.3	1629.1
40°	5096.9	2907.3	1686.7	1623.9	1642.2	1597.7	1527.0	1516.5	1608.2	1542.7	1527.0
42.5°	5495.0	2904.6	1616.0	1553.2	1566.3	1532.2	1469.3	1464.1	1500.8	1422.2	1398.6
45°	5990.0	2996.3	1563.6	1500.8	1490.3	1485.1	1464.1	1440.5	1409.1	1307.0	1280.8
47.5°	6581.9	3145.6	1553.2	1422.2	1435.3	1479.8	1453.6	1393.4	1312.2	1246.7	1233.6
50°	7299.6	3454.7	1527.0	1364.6	1388.2	1458.9	1437.9	1354.1	1280.8	1238.9	1231.0
52.5°	8093.2	3844.9	1492.9	1275.5	1327.9	1440.5	1451.0	1372.4	1265.1	1228.4	1223.1
55°	9028.2	4421.1	1453.6	1178.6	1257.2	1422.2	1451.0	1320.1	1244.1	1244.1	1238.9
57.5°	10874.7	5458.3	1372.4	1089.6	1194.3	1388.2	1409.1	1322.7	1246.7	1246.7	1236.2
60°	13582.9	7077.0	1217.9	1021.5	1134.1	1341.0	1377.7	1283.4	1217.9	1233.6	1231.0
62.5°	15701.8	7569.4	1086.9	956.0	1073.9	1254.6	1335.8	1241.5	1183.9	1241.5	1246.7
65°	16155.0	7071.7	953.4	885.3	990.0	1170.8	1275.5	1181.2	1134.1	1246.7	1252.0
66°	15992.6	6684.1	906.2	864.3	953.4	1128.9	1238.9	1160.3	1107.9	1241.5	1244.1
67.5°	15269.7	6102.6	853.8	819.8	903.6	1068.6	1197.0	1131.5	1066.0	1225.8	1202.2
70°	13698.2	5175.5	764.8	741.2	832.9	969.1	1100.0	1058.1	1000.5	1128.9	1086.9
72.5°	10550.0	4135.6	670.5	673.1	751.7	866.9	1003.1	974.3	924.6	990.0	963.8
75°	6424.8	2642.7	584.1	589.3	654.8	770.0	911.5	890.5	830.3	866.9	853.8
77.5°	2847.0	1309.6	492.4	502.9	555.3	678.4	793.6	759.6	696.7	704.6	699.3
80°	1105.3	620.7	400.7	413.8	447.9	542.2	657.4	626.0	571.0	560.5	555.3
82.5°	531.7	345.7	309.1	314.3	327.4	432.2	565.7	526.5	453.1	406.0	406.0
85°	267.2	214.8	217.4	199.1	217.4	293.3	382.4	319.5	264.5	235.7	241.0
87.5°	107.4	107.4	107.4	91.7	96.9	138.8	178.1	120.5	110.0	65.5	65.5
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)