

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: P477043

Luminaire Tested: **IFLD-S-SA6D-750-U-T2R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P477043
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-750-U-T2R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens
Light Source: (96) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

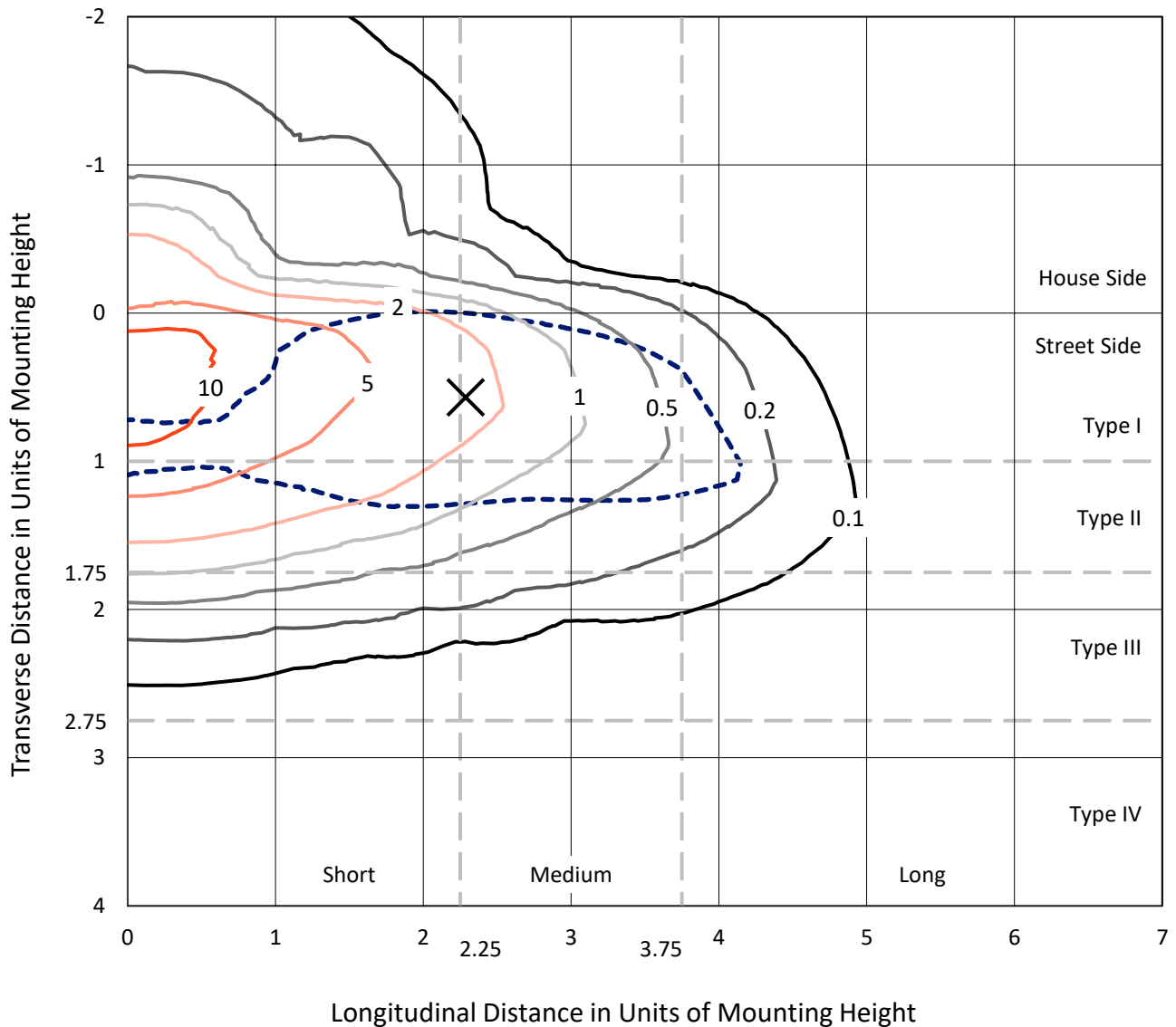
Lumens per Lamp: N/A
Luminaire Lumens: 47031.7 lumens
Efficiency: N/A
Efficacy: 127.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G5

Input Watts (W): 368.2
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

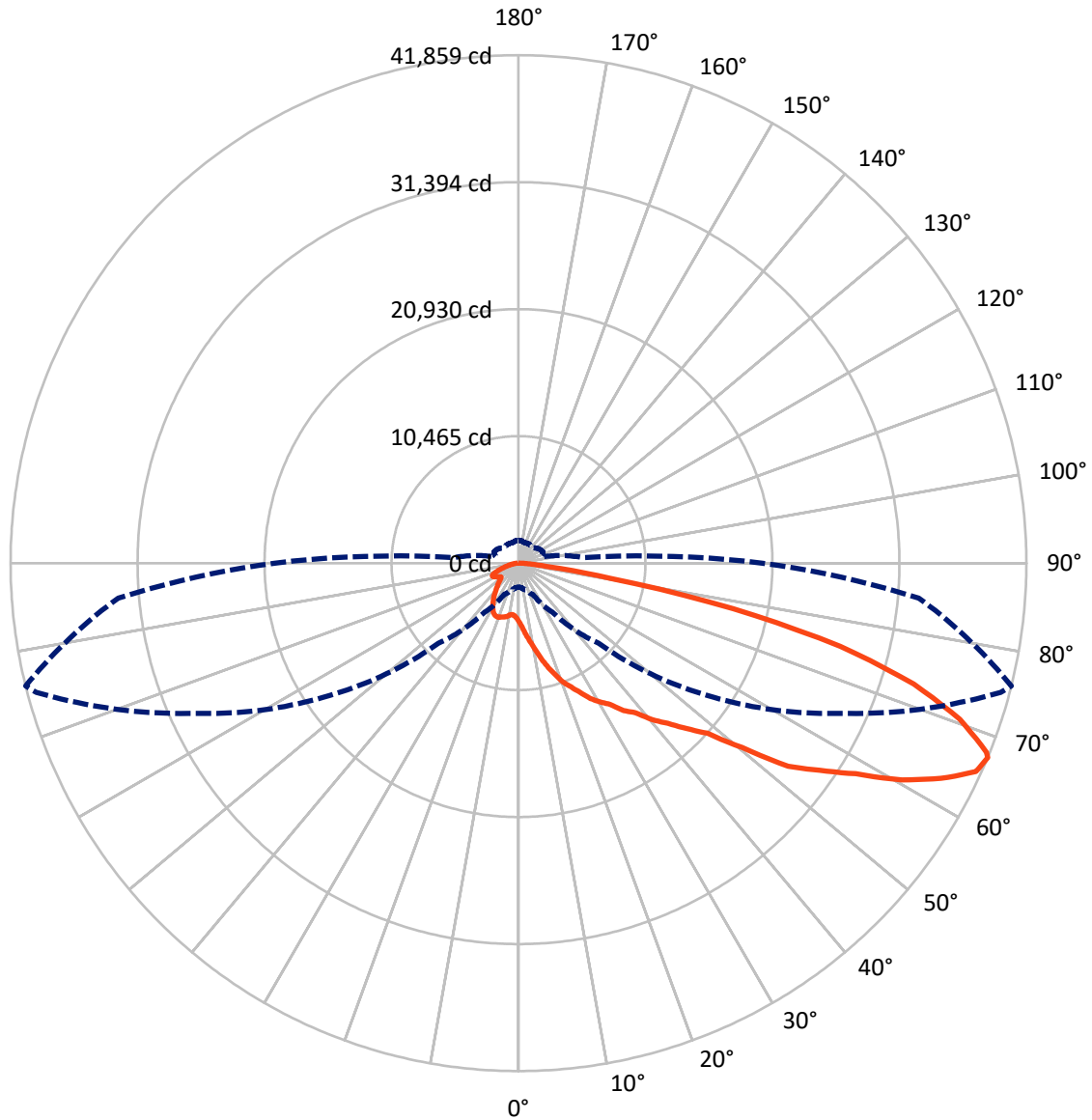
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12.5 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
House Side	Lumens	6690.9	0.0	6690.9
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	40340.9	0.0	40340.9
	% Fixture	85.8	0.0	85.8
Total	Lumens	47031.7	0.0	47031.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	557.5	1.2
10°-20°	2091.0	4.4
20°-30°	3887.4	8.3
30°-40°	6162.4	13.1
40°-50°	8523.1	18.1
50°-60°	10484.0	22.3
60°-70°	9755.9	20.7
70°-80°	4895.4	10.4
80°-90°	675.0	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°	47031.7	100.0
0°-180°	47031.7	100.0

Coefficient of Utilization



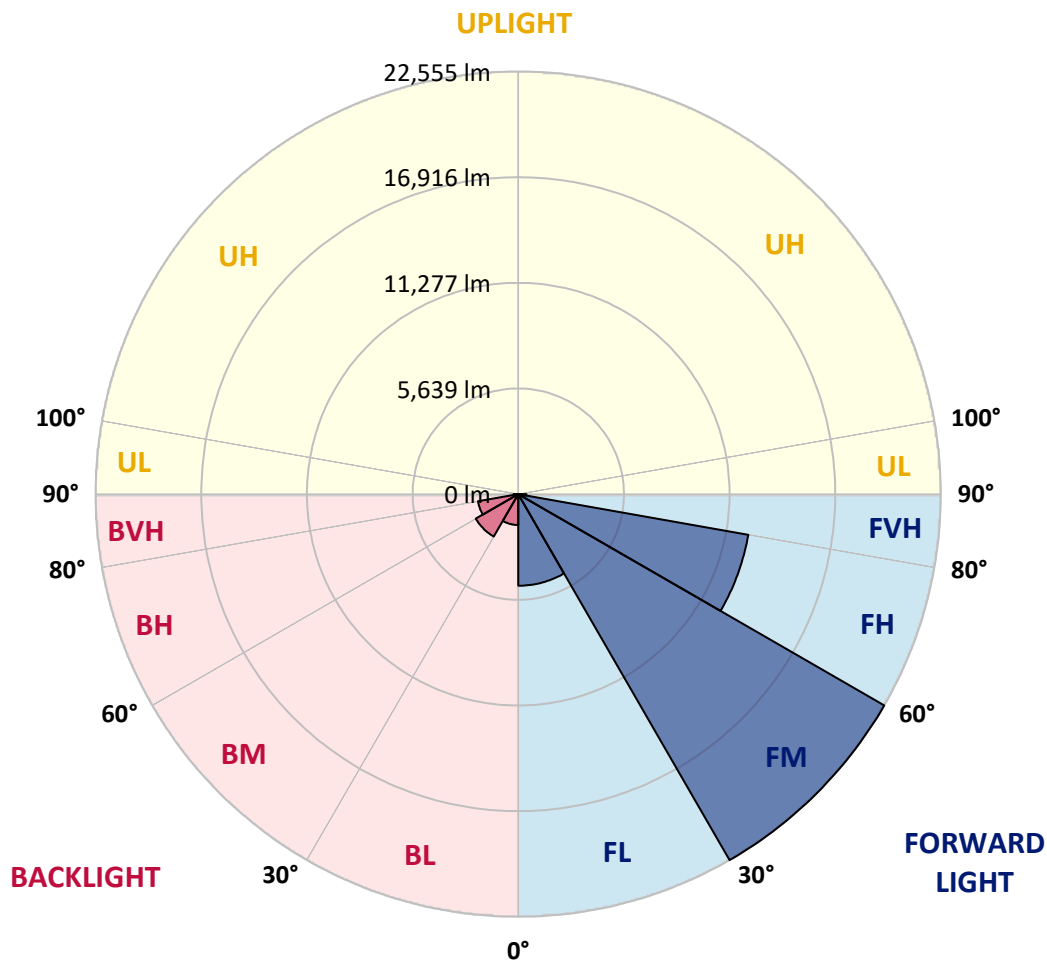
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4888.2	10.4			
FM (30°-60°)	22554.9	48.0			
FH (60°-80°)	12467.7	26.5			G5
FVH (80°-90°)	430.1	0.9			G3/500
BL (0°-30°)	1647.7	3.5	B3/2500		
BM (30°-60°)	2614.7	5.6	B3/5000		
BH (60°-80°)	2183.6	4.6	B3/2500		G3/2500
BVH (80°-90°)	244.9	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4813.0	4813.0	4813.0	4813.0	4813.0	4813.0	4813.0	4813.0	4813.0	4813.0	4813.0
2.5°	6678.1	6597.7	6517.4	6345.8	6286.9	6126.1	5831.3	5504.4	5236.4	5198.9	5011.3
5°	8286.0	8168.1	8141.3	8044.9	7739.4	7428.5	6946.1	6420.9	5767.0	5815.2	5172.1
7.5°	9492.0	9422.3	9277.6	9186.5	9004.2	8591.5	8093.1	7396.3	6565.6	6404.8	5531.2
10°	10403.1	10306.6	10301.3	10220.9	10124.4	9701.0	9320.5	8382.5	7315.9	7096.2	5970.7
12.5°	10864.0	10848.0	11132.0	11132.0	11094.5	10917.6	10263.8	9406.2	8028.8	7953.7	6479.8
15°	11362.5	11228.5	11475.0	11662.6	11759.1	11850.2	11308.9	10403.1	8939.9	8795.2	7026.5
17.5°	11362.5	11351.8	11598.3	11909.2	12413.0	12530.9	12236.1	11319.6	9695.6	9588.4	7626.8
20°	11169.5	11325.0	11496.5	11914.5	12461.2	12938.2	13024.0	12257.5	10531.7	10446.0	8307.5
22.5°	12070.0	11919.9	12096.8	12257.5	12681.0	13404.5	13640.3	13082.9	11410.7	11083.8	8923.8
25°	13581.4	13479.6	13350.9	13115.1	13292.0	13608.2	13967.3	13693.9	12161.1	11796.6	9518.8
27.5°	15055.3	15060.7	14782.0	14267.4	13886.9	13951.2	14374.6	14229.9	12793.5	12632.7	9926.1
30°	17150.9	17022.3	16711.4	16014.7	15269.7	14658.7	14589.0	14728.4	13597.5	13286.6	10510.3
32.5°	18721.3	18748.1	18308.6	17306.4	16288.0	15789.6	15178.6	15237.5	14106.6	13876.2	10976.6
35°	19991.5	19959.4	19648.5	18817.8	17611.9	17011.6	16186.2	15848.5	15291.1	14926.7	11689.4
37.5°	21363.6	21101.0	20597.2	19659.2	18887.5	18056.7	17252.8	16491.7	16079.0	15639.5	12300.4
40°	21915.7	21915.7	21240.3	20811.6	19895.1	19268.0	18748.1	17338.5	17038.4	16952.6	13082.9
42.5°	21524.4	21765.6	21486.9	20999.2	20624.0	19830.8	19691.4	18217.5	18222.9	18051.3	14020.9
45°	21486.9	21154.6	20924.1	21047.4	20870.5	20827.7	21181.4	19434.1	19466.3	19444.9	15280.4
47.5°	20409.6	20259.5	20602.5	20806.2	20950.9	21615.5	22633.9	20886.6	21117.1	20956.3	16732.9
50°	19337.7	19310.9	19525.3	20264.9	20892.0	21985.3	24016.7	23126.9	23882.7	23871.9	19364.5
52.5°	16400.6	16684.6	17526.1	19091.1	20640.1	22489.1	25061.8	25989.0	27430.8	27822.0	21545.8
55°	13592.1	13442.0	14685.5	16958.0	19541.3	22687.5	26230.2	27709.5	29831.9	30115.9	23786.2
57.5°	10574.6	10853.3	11834.1	14015.5	17268.8	21706.6	27087.7	29408.5	32543.9	32763.6	26385.6
60°	7889.4	7926.9	9004.2	10762.2	14246.0	19493.1	27366.4	31150.4	35652.5	36279.6	29108.3
62.5°	4963.0	5188.2	6008.2	7739.4	10724.7	16395.2	26117.6	32206.2	38911.2	39077.3	31852.5
65°	2674.5	2819.2	3435.5	4523.6	7492.8	12402.3	22805.4	31573.8	40444.0	41430.2	33074.5
67°	1977.7	2004.5	2288.6	2888.9	5011.3	9336.5	19016.1	29285.2	41140.8	41859.0	33122.7
67.5°	1854.4	1892.0	2117.1	2594.1	4443.2	8596.9	18024.5	28470.5	40829.9	41601.7	32747.5
70°	1586.5	1597.2	1650.8	1784.8	2492.2	5172.1	12273.6	23330.6	37844.6	38584.2	30115.9
72.5°	1409.6	1420.3	1441.7	1468.5	1688.3	2990.7	7466.0	17954.9	32892.3	34071.4	25983.6
75°	1238.1	1275.6	1286.3	1264.9	1436.4	1945.6	3971.5	13195.5	26830.5	27404.0	20205.9
77.5°	1050.5	1066.6	1088.0	1109.5	1281.0	1452.5	1908.0	8907.8	18415.8	18067.4	10928.4
80°	884.3	889.7	905.8	921.9	1109.5	1109.5	1082.7	4813.0	8044.9	7691.1	3692.8
82.5°	632.4	670.0	707.5	750.4	921.9	745.0	707.5	2143.9	2545.8	2422.6	1248.8
85°	246.5	300.1	466.3	514.5	584.2	402.0	471.7	927.2	1061.2	1050.5	466.3
87.5°	42.9	48.2	128.6	198.3	214.4	139.4	225.1	332.3	396.6	428.8	171.5
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°	4813.0	4813.0	4813.0	4813.0	4813.0	4813.0	4813.0	4813.0	4813.0	4813.0	4813.0
2.5°	4855.9	4689.7	4491.4	4293.1	4164.5	3960.8	3944.7	3821.4	3805.4	3762.5	3783.9
5°	4893.4	4695.1	4293.1	3976.9	3832.2	3714.2	3741.0	3687.4	3671.4	3644.6	3601.7
7.5°	5188.2	4796.9	4196.6	3923.3	3816.1	3762.5	3762.5	3698.2	3649.9	3682.1	3714.2
10°	5381.1	4845.1	4271.7	3998.3	3912.6	3794.6	3837.5	3757.1	3783.9	3719.6	3719.6
12.5°	5692.0	5118.5	4427.1	4110.9	3971.5	3864.3	3907.2	3816.1	3794.6	3800.0	3783.9
15°	6110.0	5300.7	4496.8	4175.2	4078.7	3944.7	3912.6	3832.2	3751.8	3725.0	3757.1
17.5°	6501.3	5525.8	4545.0	4212.7	4057.3	3907.2	3869.7	3767.8	3741.0	3660.6	3596.3
20°	6967.6	5793.8	4609.3	4244.9	3976.9	3826.8	3730.3	3628.5	3537.4	3489.1	3510.6
22.5°	7278.4	5933.1	4641.5	4180.5	3859.0	3719.6	3515.9	3446.3	3317.6	3264.0	3221.2
25°	7787.6	6104.7	4561.1	4003.7	3649.9	3424.8	3242.6	3146.1	3055.0	2985.3	2963.9
27.5°	7916.2	6233.3	4373.5	3703.5	3317.6	3081.8	2926.4	2808.5	2749.5	2642.3	2620.9
30°	8291.4	6104.7	4094.8	3339.1	3001.4	2760.2	2604.8	2519.0	2379.7	2352.9	2293.9
32.5°	8532.6	6142.2	3741.0	2985.3	2637.0	2422.6	2320.7	2235.0	2197.5	2068.8	2036.7
35°	8934.6	6013.5	3381.9	2658.4	2336.8	2170.7	2084.9	2058.1	1934.8	1875.9	1822.3
37.5°	9191.8	5938.5	3022.8	2288.6	2009.9	1940.2	1967.0	1854.4	1704.4	1591.8	1554.3
40°	9642.0	5911.7	2615.5	1983.1	1784.8	1768.7	1854.4	1640.1	1366.7	1270.2	1216.6
42.5°	10290.6	5729.5	2299.3	1709.7	1607.9	1677.6	1693.7	1366.7	1211.3	1130.9	1093.4
45°	10912.3	5767.0	1988.4	1415.0	1398.9	1500.7	1463.2	1157.7	1066.6	1007.6	1039.8
47.5°	12107.5	5954.6	1682.9	1179.1	1259.5	1356.0	1136.2	1034.4	948.7	905.8	911.1
50°	13956.6	6136.8	1415.0	1077.3	1189.8	1227.4	975.5	937.9	932.6	846.8	841.5
52.5°	15066.0	6067.1	1366.7	1205.9	1275.6	1227.4	1061.2	1034.4	991.5	954.0	911.1
55°	16829.3	6270.8	1468.5	1409.6	1447.1	1179.1	1189.8	1179.1	1147.0	1050.5	1077.3
57.5°	18233.6	6404.8	1602.5	1575.7	1554.3	1227.4	1243.4	1248.8	1227.4	1184.5	1222.0
60°	20163.1	6672.8	1741.9	1747.3	1752.6	1334.6	1361.4	1393.5	1388.2	1372.1	1382.8
62.5°	21347.5	6549.5	1897.3	1983.1	1956.3	1554.3	1548.9	1570.4	1570.4	1597.2	1613.3
65°	21170.7	6093.9	1977.7	2192.1	2052.8	1715.1	1715.1	1725.8	1731.2	1784.8	1790.1
67°	20109.5	5279.3	1934.8	2224.3	2052.8	1779.4	1779.4	1790.1	1752.6	1892.0	1849.1
67.5°	19616.4	5038.1	1897.3	2197.5	2036.7	1774.0	1774.0	1779.4	1747.3	1881.2	1838.4
70°	17059.8	3741.0	1634.7	1945.6	1886.6	1725.8	1725.8	1693.7	1666.9	1843.7	1806.2
72.5°	14562.2	2717.3	1313.1	1656.1	1704.4	1661.5	1672.2	1591.8	1516.8	1640.1	1607.9
75°	11153.5	1999.2	1023.7	1275.6	1441.7	1554.3	1624.0	1420.3	1323.8	1356.0	1297.0
77.5°	6222.6	1302.4	809.3	943.3	1098.7	1447.1	1559.7	1281.0	1082.7	1045.1	1045.1
80°	2111.7	761.1	594.9	702.1	755.7	1281.0	1457.8	1039.8	852.2	814.7	787.9
82.5°	798.6	466.3	407.3	482.4	482.4	1013.0	1189.8	798.6	643.2	830.7	846.8
85°	364.5	278.7	268.0	278.7	278.7	621.7	841.5	519.9	578.8	498.4	439.5
87.5°	144.7	134.0	123.3	117.9	96.5	107.2	289.4	139.4	262.6	69.7	64.3
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)