

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: P476535

Luminaire Tested: **IFLD-S-SA6C-730-U-T2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476535
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6C-730-U-T2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens
Light Source: (96) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

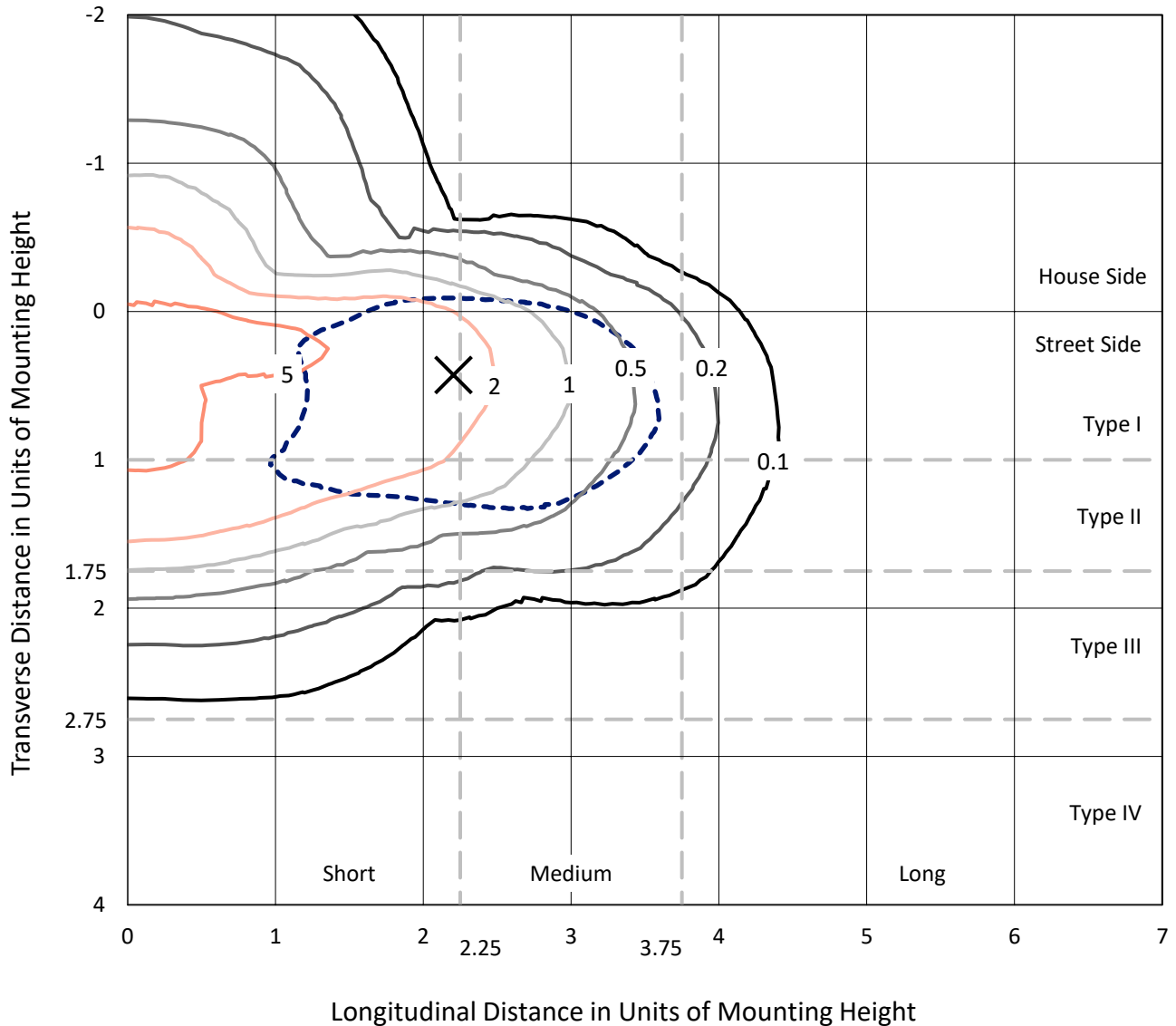
Lumens per Lamp: N/A
Luminaire Lumens: 37791.4 lumens
Efficiency: N/A
Efficacy: 117.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 321.5
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

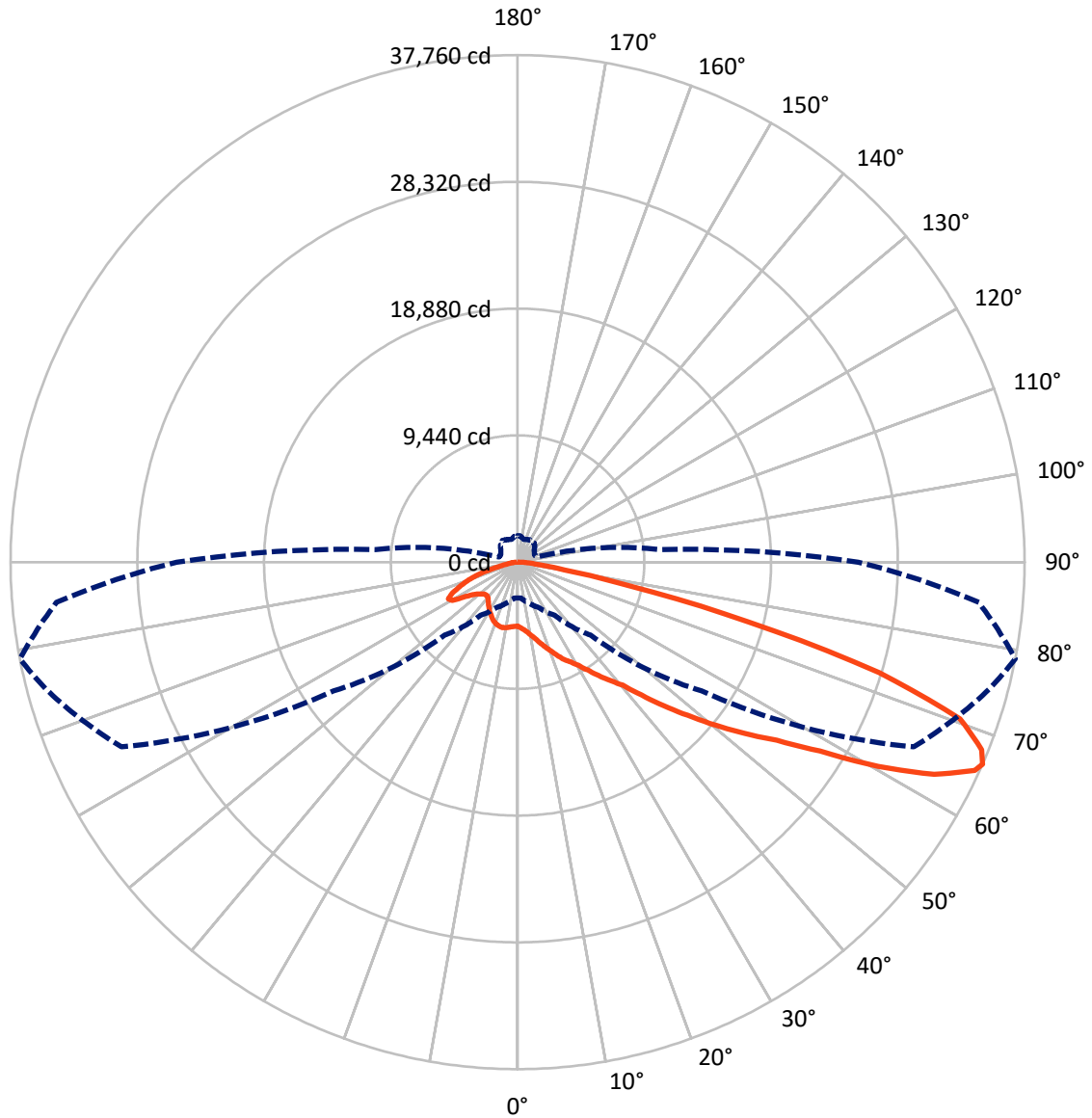
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.7 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
House Side	Lumens	7631.5	0.0	7631.5
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	30160.0	0.0	30160.0
	% Fixture	79.8	0.0	79.8
Total	Lumens	37791.4	0.0	37791.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	469.2	1.2
10°-20°	1449.0	3.8
20°-30°	2487.2	6.6
30°-40°	3842.2	10.2
40°-50°	6154.2	16.3
50°-60°	9188.7	24.3
60°-70°	9441.4	25.0
70°-80°	4185.2	11.1
80°-90°	574.2	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°	37791.4	100.0
0°-180°	37791.4	100.0



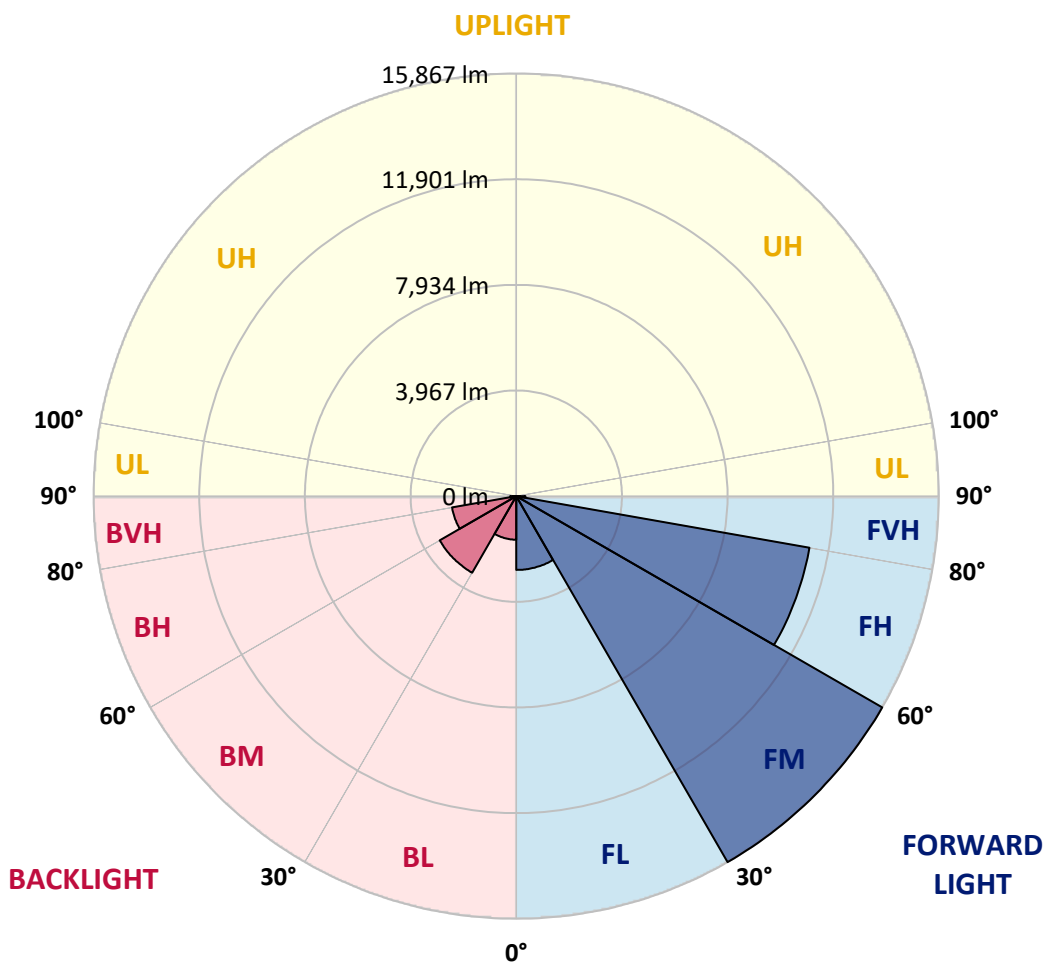
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2770.4	7.3			
FM (30°-60°)	15867.3	42.0			
FH (60°-80°)	11177.9	29.6			G4/12000
FVH (80°-90°)	344.4	0.9			G3/500
BL (0°-30°)	1635.0	4.3	B3/2500		
BM (30°-60°)	3317.8	8.8	B3/5000		
BH (60°-80°)	2448.8	6.5	B3/2500		G3/2500
BVH (80°-90°)	229.8	0.6			G3/500
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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	4772.0	4772.0	4772.0	4772.0	4772.0	4772.0	4772.0	4772.0	4772.0	4772.0	4772.0
2.5°	5075.5	5079.6	5079.6	5063.0	5067.1	5079.6	5033.9	4934.1	4934.1	4917.5	4888.4
5°	5387.2	5366.4	5337.3	5341.5	5324.9	5324.9	5275.0	5179.4	5096.2	5063.0	4975.7
7.5°	5428.8	5449.6	5445.4	5495.3	5520.2	5520.2	5545.2	5466.2	5341.5	5262.5	5175.2
10°	5511.9	5457.9	5453.7	5570.1	5607.5	5694.8	5794.6	5753.0	5649.1	5536.9	5420.5
12.5°	5561.8	5595.1	5595.1	5653.3	5740.5	5869.4	6044.0	6123.0	5960.9	5844.5	5665.7
15°	5636.6	5590.9	5723.9	5773.8	5940.1	6031.5	6280.9	6484.6	6376.5	6235.2	5952.5
17.5°	5669.9	5640.8	5715.6	5807.1	6089.7	6226.9	6530.3	6813.0	6721.5	6630.1	6339.1
20°	5840.3	5836.1	5869.4	5944.2	6147.9	6418.1	6796.4	7187.1	7220.4	7054.1	6659.2
22.5°	6256.0	6201.9	6201.9	6172.9	6260.1	6538.6	7049.9	7590.3	7740.0	7544.6	7020.8
25°	6638.4	6713.2	6667.5	6534.5	6501.2	6646.7	7232.8	8018.5	8218.0	8035.1	7511.3
27.5°	7128.9	7153.9	7232.8	7054.1	6825.5	6871.2	7432.4	8259.6	8671.1	8425.8	7789.8
30°	7835.6	7789.8	7773.2	7573.7	7274.4	7212.1	7661.0	8612.9	9265.5	8920.5	8118.2
32.5°	8313.6	8425.8	8421.7	8147.3	7785.7	7648.5	7943.6	8945.4	9901.5	9581.4	8725.1
35°	9261.4	9377.7	9286.3	8883.1	8459.1	8184.7	8351.0	9377.7	10628.9	10379.5	9240.6
37.5°	10471.0	10745.3	10550.0	9805.9	9207.3	8908.0	8916.3	9847.5	11373.0	11169.3	9793.4
40°	11306.5	11676.5	11406.3	10707.9	10071.9	9789.3	9677.0	10404.5	12262.6	12046.4	10658.0
42.5°	12341.5	12649.1	12507.8	11817.8	11073.7	10832.6	10608.2	11335.6	13621.8	13522.1	11767.9
45°	13472.2	13617.7	13572.0	13135.5	12308.3	12225.2	11730.5	12561.9	15222.2	15263.8	13156.3
47.5°	14523.9	14602.8	14690.1	14374.2	13858.8	13929.4	13023.3	13875.4	16776.9	17051.2	14702.6
50°	14794.1	15064.2	15267.9	15479.9	15592.2	16070.2	14449.0	15488.2	18564.3	19096.3	16423.5
52.5°	14519.7	14498.9	15118.3	15783.4	16905.7	17907.5	16390.3	17491.8	20143.9	21195.5	17999.0
55°	13272.7	13231.1	14228.7	15110.0	17300.6	18930.1	19162.9	20160.5	22051.8	23419.4	20131.4
57.5°	11090.3	10832.6	11921.7	13368.3	16444.3	19042.3	21947.9	24121.9	24986.5	26545.3	23386.2
60°	7453.1	7345.1	8388.4	10113.5	13351.6	17450.3	23614.8	29081.0	29122.6	30876.7	28436.7
62.5°	4589.1	4609.9	5279.1	6571.9	9348.6	13833.8	22895.7	33042.4	33050.7	34809.1	32593.5
65°	3001.2	3013.7	3554.1	4269.0	5840.3	9381.9	18934.2	33354.2	35781.7	37415.4	34497.3
66°	2672.8	2677.0	3142.5	3724.5	4838.5	7677.6	16722.8	32543.6	36397.0	37760.4	34472.4
67.5°	2253.0	2307.0	2681.1	3130.1	3774.4	5516.1	13268.5	30199.2	36081.0	37278.2	33690.9
70°	1762.5	1791.6	2086.7	2544.0	2830.8	3192.4	7885.5	24616.6	33025.8	34967.0	30847.6
72.5°	1413.3	1438.3	1662.7	2065.9	2298.7	2103.3	4294.0	17861.8	26088.1	28158.2	24263.3
75°	1193.0	1197.2	1305.2	1625.3	1891.3	1579.6	2286.2	11464.5	16739.4	17703.8	14864.7
77.5°	964.4	981.0	1055.8	1238.7	1521.4	1242.9	1363.4	6422.3	8405.1	8475.7	6871.2
80°	785.6	793.9	839.7	902.0	1159.7	918.7	922.8	3134.2	3603.9	3520.8	2793.4
82.5°	619.4	627.7	681.7	669.2	852.1	656.8	573.6	1508.9	1658.6	1625.3	1284.5
85°	349.2	349.2	536.2	536.2	540.4	415.7	349.2	710.8	877.1	818.9	602.7
87.5°	112.2	116.4	162.1	170.4	270.2	187.1	170.4	266.0	415.7	365.8	216.2
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°	4772.0	4772.0	4772.0	4772.0	4772.0	4772.0	4772.0	4772.0	4772.0	4772.0	4772.0
2.5°	4871.8	4805.3	4776.2	4680.6	4655.6	4593.3	4564.2	4526.8	4514.3	4460.2	4510.1
5°	4909.2	4888.4	4772.0	4651.5	4560.0	4518.4	4456.1	4373.0	4364.6	4289.8	4281.5
7.5°	5067.1	4996.5	4792.8	4663.9	4481.0	4377.1	4239.9	4198.4	4144.3	4119.4	4173.4
10°	5312.4	5133.7	4830.2	4506.0	4281.5	4156.8	4057.0	4027.9	4032.1	4015.5	3990.5
12.5°	5487.0	5316.5	4767.9	4373.0	4082.0	3961.4	3953.1	3982.2	4027.9	4007.2	4036.3
15°	5736.4	5416.3	4722.1	4152.6	3919.9	3886.6	3882.5	3969.7	3965.6	3965.6	3961.4
17.5°	5969.2	5516.1	4555.9	3961.4	3749.4	3774.4	3803.5	3799.3	3840.9	3857.5	3886.6
20°	6264.3	5632.5	4323.1	3770.2	3620.6	3612.3	3608.1	3612.3	3653.8	3678.8	3658.0
22.5°	6522.0	5657.4	4127.7	3587.3	3466.8	3433.5	3379.5	3433.5	3412.7	3421.0	3446.0
25°	6746.5	5661.6	3849.2	3450.1	3313.0	3238.1	3196.6	3192.4	3155.0	3150.9	3150.9
27.5°	6933.5	5520.2	3603.9	3258.9	3130.1	3059.4	3055.2	3009.5	2913.9	2851.6	2859.9
30°	7079.0	5412.2	3433.5	3092.7	2968.0	2955.5	2918.1	2814.2	2689.5	2610.5	2610.5
32.5°	7336.8	5196.0	3200.7	2922.2	2859.9	2843.3	2756.0	2664.5	2548.1	2473.3	2460.8
35°	7528.0	4996.5	3046.9	2776.7	2747.6	2714.4	2639.6	2539.8	2506.6	2489.9	2502.4
37.5°	7744.1	4772.0	2859.9	2652.0	2681.1	2618.8	2531.5	2485.8	2602.2	2573.1	2585.5
40°	8089.1	4614.0	2677.0	2577.2	2606.3	2535.6	2423.4	2406.8	2552.3	2448.4	2423.4
42.5°	8721.0	4609.9	2564.7	2465.0	2485.8	2431.7	2332.0	2323.7	2381.8	2257.1	2219.7
45°	9506.6	4755.4	2481.6	2381.8	2365.2	2356.9	2323.7	2286.2	2236.4	2074.2	2032.7
47.5°	10446.0	4992.3	2465.0	2257.1	2277.9	2348.6	2307.0	2211.4	2082.6	1978.6	1957.9
50°	11585.0	5482.8	2423.4	2165.7	2203.1	2315.3	2282.1	2149.1	2032.7	1966.2	1953.7
52.5°	12844.5	6102.2	2369.4	2024.4	2107.5	2286.2	2302.9	2178.2	2007.7	1949.5	1941.2
55°	14328.5	7016.7	2307.0	1870.6	1995.3	2257.1	2302.9	2095.0	1974.5	1974.5	1966.2
57.5°	17259.0	8662.8	2178.2	1729.2	1895.5	2203.1	2236.4	2099.2	1978.6	1978.6	1962.0
60°	21557.2	11231.7	1932.9	1621.2	1799.9	2128.3	2186.5	2036.8	1932.9	1957.9	1953.7
62.5°	24920.0	12013.2	1725.1	1517.2	1704.3	1991.1	2120.0	1970.3	1878.9	1970.3	1978.6
65°	25639.2	11223.4	1513.1	1405.0	1571.3	1858.1	2024.4	1874.7	1799.9	1978.6	1987.0
66°	25381.4	10608.2	1438.3	1371.7	1513.1	1791.6	1966.2	1841.5	1758.3	1970.3	1974.5
67.5°	24234.2	9685.3	1355.1	1301.1	1434.1	1696.0	1899.7	1795.7	1691.8	1945.4	1908.0
70°	21740.1	8213.8	1213.8	1176.4	1321.9	1538.0	1745.9	1679.3	1587.9	1791.6	1725.1
72.5°	16743.6	6563.6	1064.1	1068.3	1193.0	1375.9	1592.1	1546.3	1467.4	1571.3	1529.7
75°	10196.6	4194.2	927.0	935.3	1039.2	1222.1	1446.6	1413.3	1317.7	1375.9	1355.1
77.5°	4518.4	2078.4	781.5	798.1	881.2	1076.6	1259.5	1205.5	1105.7	1118.2	1109.9
80°	1754.2	985.2	636.0	656.8	710.8	860.5	1043.4	993.5	906.2	889.6	881.2
82.5°	843.8	548.7	490.5	498.8	519.6	685.9	897.9	835.5	719.1	644.3	644.3
85°	424.0	340.9	345.0	315.9	345.0	465.6	606.9	507.1	419.8	374.1	382.4
87.5°	170.4	170.4	170.4	145.5	153.8	220.3	282.7	191.2	174.6	103.9	103.9
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)