

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: P476769

Luminaire Tested: **IFLD-S-SA6C-830-U-T2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476769
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6C-830-U-T2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens
Light Source: (96) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

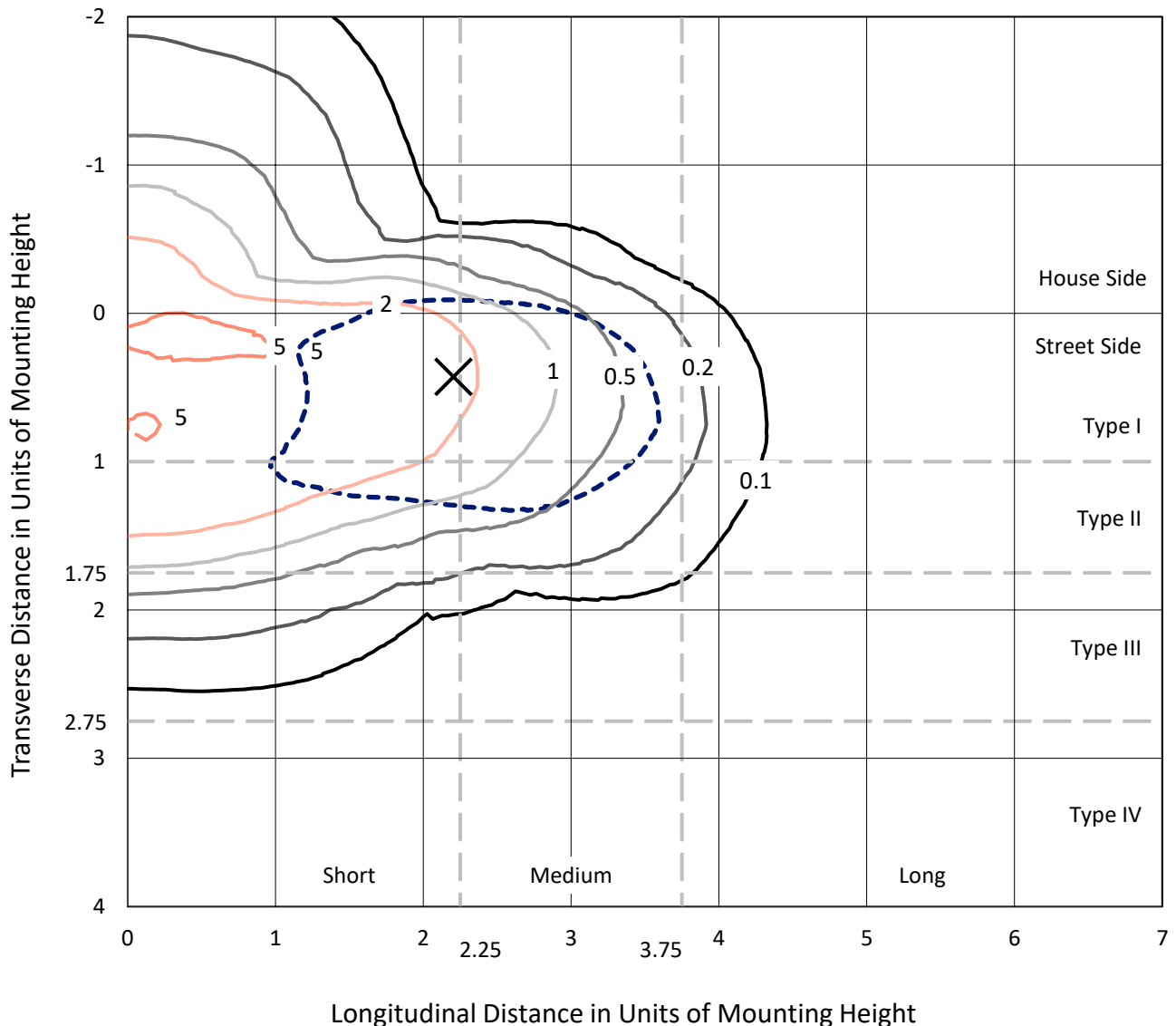
Lumens per Lamp: N/A
Luminaire Lumens: 32977.2 lumens
Efficiency: N/A
Efficacy: 102.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

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

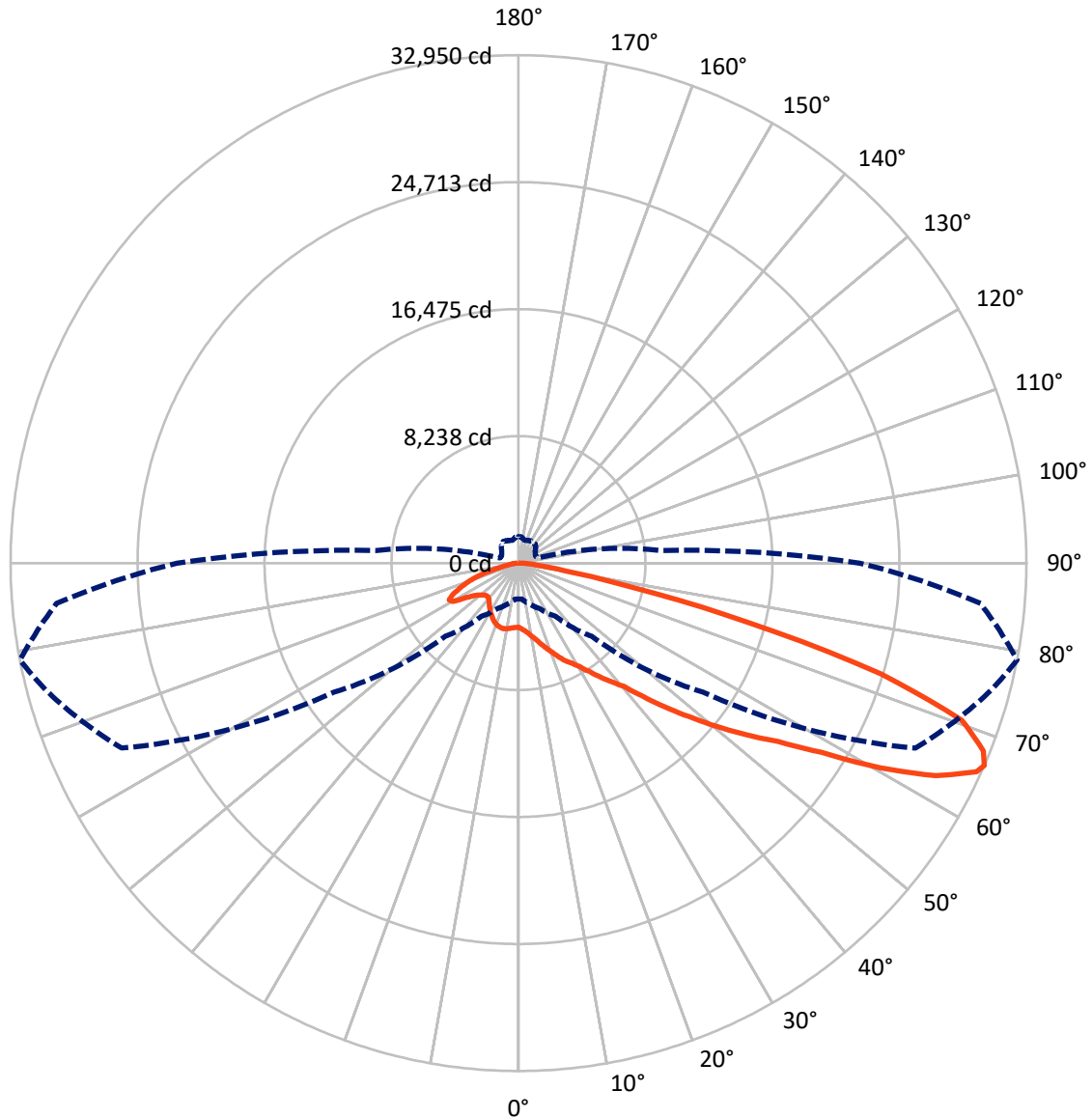
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.9 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	6659.3	0.0	6659.3
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	26317.9	0.0	26317.9
	% Fixture	79.8	0.0	79.8
Total	Lumens	32977.2	0.0	32977.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	409.5	1.2
10°-20°	1264.4	3.8
20°-30°	2170.3	6.6
30°-40°	3352.7	10.2
40°-50°	5370.3	16.3
50°-60°	8018.2	24.3
60°-70°	8238.7	25.0
70°-80°	3652.1	11.1
80°-90°	501.1	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°	32977.2	100.0
0°-180°	32977.2	100.0

Coefficient of Utilization



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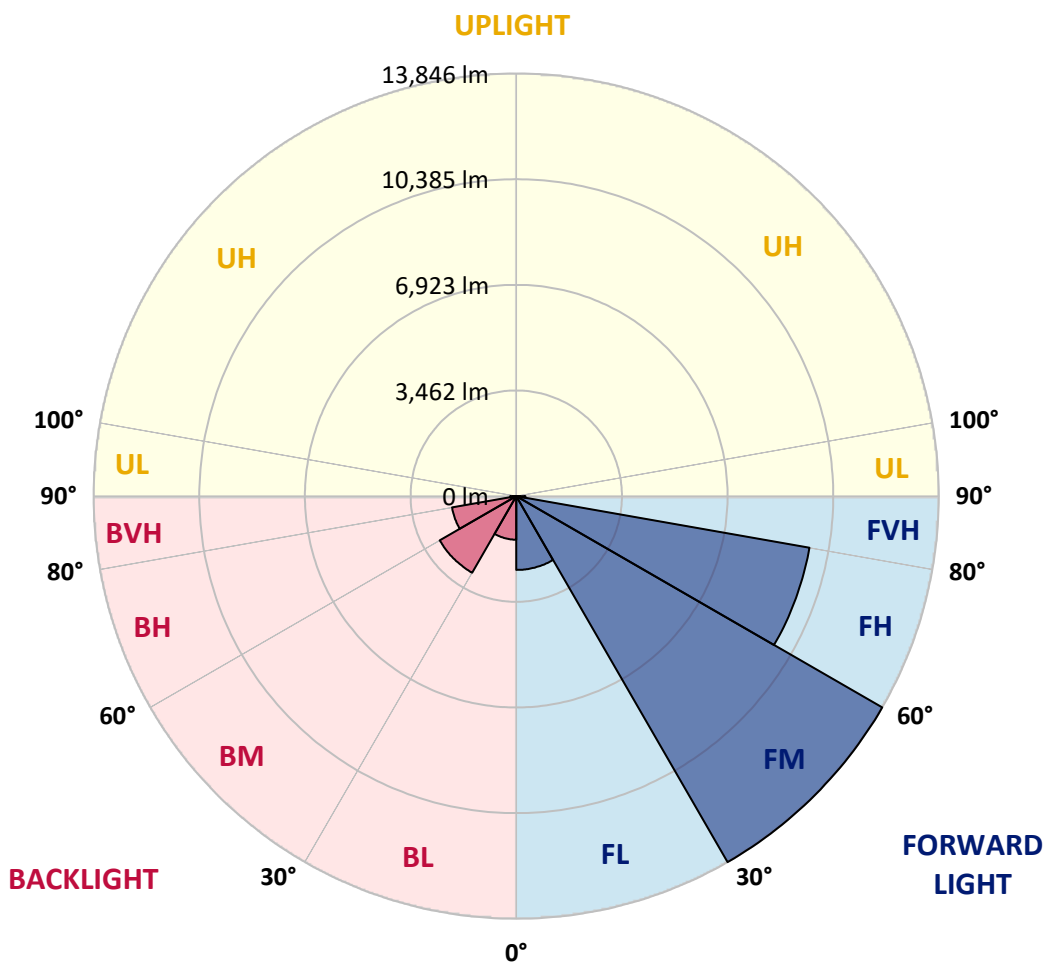
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2417.4	7.3			
FM (30°-60°)	13846.0	42.0			
FH (60°-80°)	9753.9	29.6			G4/12000
FVH (80°-90°)	300.5	0.9			G3/500
BL (0°-30°)	1426.7	4.3	B3/2500		
BM (30°-60°)	2895.2	8.8	B3/5000		
BH (60°-80°)	2136.8	6.5	B3/2500		G3/2500
BVH (80°-90°)	200.6	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-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	4164.1	4164.1	4164.1	4164.1	4164.1	4164.1	4164.1	4164.1	4164.1	4164.1	4164.1
2.5°	4428.9	4432.5	4432.5	4418.0	4421.6	4432.5	4392.6	4305.6	4305.6	4291.1	4265.7
5°	4700.9	4682.8	4657.4	4661.0	4646.5	4646.5	4603.0	4519.6	4447.0	4418.0	4341.8
7.5°	4737.2	4755.4	4751.7	4795.3	4817.0	4817.0	4838.8	4769.9	4661.0	4592.1	4516.0
10°	4809.8	4762.6	4759.0	4860.5	4893.2	4969.4	5056.4	5020.1	4929.5	4831.5	4730.0
12.5°	4853.3	4882.3	4882.3	4933.1	5009.3	5121.7	5274.1	5343.0	5201.5	5099.9	4944.0
15°	4918.6	4878.7	4994.8	5038.3	5183.4	5263.2	5480.8	5658.5	5564.2	5440.9	5194.3
17.5°	4947.6	4922.2	4987.5	5067.3	5314.0	5433.7	5698.4	5945.1	5865.3	5785.5	5531.6
20°	5096.3	5092.7	5121.7	5187.0	5364.7	5600.5	5930.6	6271.6	6300.6	6155.5	5810.9
22.5°	5459.0	5411.9	5411.9	5386.5	5462.7	5705.7	6151.9	6623.4	6754.0	6583.5	6126.5
25°	5792.8	5858.0	5818.1	5702.1	5673.1	5800.0	6311.5	6997.0	7171.1	7011.5	6554.5
27.5°	6220.8	6242.5	6311.5	6155.5	5956.0	5995.9	6485.6	7207.4	7566.5	7352.5	6797.5
30°	6837.4	6797.5	6783.0	6608.9	6347.7	6293.3	6685.1	7515.7	8085.2	7784.1	7084.1
32.5°	7254.5	7352.5	7348.9	7109.5	6793.9	6674.2	6931.7	7805.9	8640.2	8360.9	7613.6
35°	8081.6	8183.1	8103.3	7751.5	7381.5	7142.1	7287.2	8183.1	9274.9	9057.3	8063.4
37.5°	9137.1	9376.5	9206.0	8556.7	8034.4	7773.2	7780.5	8593.0	9924.2	9746.5	8545.9
40°	9866.2	10189.0	9953.2	9343.9	8788.9	8542.2	8444.3	9079.1	10700.5	10511.8	9300.3
42.5°	10769.4	11037.8	10914.5	10312.3	9663.1	9452.7	9256.8	9891.6	11886.6	11799.5	10268.8
45°	11756.0	11882.9	11843.0	11462.2	10740.4	10667.8	10236.2	10961.6	13283.1	13319.3	11480.3
47.5°	12673.7	12742.6	12818.8	12543.1	12093.3	12155.0	11364.2	12107.8	14639.7	14879.1	12829.7
50°	12909.5	13145.2	13323.0	13508.0	13605.9	14023.0	12608.4	13515.2	16199.4	16663.7	14331.4
52.5°	12670.1	12651.9	13192.4	13772.8	14752.1	15626.3	14302.3	15263.6	17577.8	18495.5	15706.1
55°	11581.9	11545.6	12416.2	13185.1	15096.7	16518.6	16721.7	17592.3	19242.7	20436.1	17566.9
57.5°	9677.6	9452.7	10403.0	11665.3	14349.5	16616.5	19152.0	21049.1	21803.5	23163.8	20407.0
60°	6503.7	6409.4	7319.8	8825.2	11650.8	15227.3	20606.5	25376.4	25412.7	26943.4	24814.2
62.5°	4004.5	4022.6	4606.6	5734.7	8157.7	12071.6	19979.0	28833.2	28840.4	30374.8	28441.4
65°	2618.9	2629.8	3101.3	3725.2	5096.3	8186.8	16522.2	29105.2	31223.6	32649.1	30102.7
66°	2332.3	2336.0	2742.2	3250.0	4222.1	6699.6	14592.5	28397.9	31760.4	32950.1	30081.0
67.5°	1966.0	2013.1	2339.6	2731.3	3293.6	4813.4	11578.3	26352.1	31484.7	32529.4	29399.0
70°	1538.0	1563.4	1820.9	2219.9	2470.2	2785.7	6880.9	21480.7	28818.7	30512.6	26918.0
72.5°	1233.3	1255.0	1450.9	1802.8	2005.9	1835.4	3747.0	15586.4	22764.8	24571.1	21172.4
75°	1041.0	1044.7	1139.0	1418.3	1650.4	1378.4	1995.0	10004.0	14607.0	15448.6	12971.1
77.5°	841.5	856.0	921.3	1080.9	1327.6	1084.6	1189.7	5604.1	7334.3	7396.0	5995.9
80°	685.6	692.8	732.7	787.1	1012.0	801.6	805.3	2735.0	3144.8	3072.3	2437.5
82.5°	540.5	547.7	594.9	584.0	743.6	573.1	500.6	1316.7	1447.3	1418.3	1120.8
85°	304.7	304.7	467.9	467.9	471.5	362.7	304.7	620.3	765.4	714.6	526.0
87.5°	97.9	101.6	141.5	148.7	235.8	163.2	148.7	232.1	362.7	319.2	188.6
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°	4164.1	4164.1	4164.1	4164.1	4164.1	4164.1	4164.1	4164.1	4164.1	4164.1	4164.1
2.5°	4251.2	4193.1	4167.7	4084.3	4062.5	4008.1	3982.7	3950.1	3939.2	3892.1	3935.6
5°	4283.8	4265.7	4164.1	4058.9	3979.1	3942.8	3888.4	3815.9	3808.6	3743.3	3736.1
7.5°	4421.6	4360.0	4182.2	4069.8	3910.2	3819.5	3699.8	3663.5	3616.4	3594.6	3641.8
10°	4635.7	4479.7	4214.9	3932.0	3736.1	3627.3	3540.2	3514.8	3518.5	3503.9	3482.2
12.5°	4788.0	4639.3	4160.5	3815.9	3562.0	3456.8	3449.5	3474.9	3514.8	3496.7	3522.1
15°	5005.6	4726.3	4120.6	3623.6	3420.5	3391.5	3387.9	3464.0	3460.4	3460.4	3456.8
17.5°	5208.8	4813.4	3975.5	3456.8	3271.8	3293.6	3319.0	3315.3	3351.6	3366.1	3391.5
20°	5466.3	4915.0	3772.4	3289.9	3159.4	3152.1	3148.5	3152.1	3188.4	3210.1	3192.0
22.5°	5691.2	4936.7	3601.9	3130.3	3025.1	2996.1	2949.0	2996.1	2978.0	2985.2	3007.0
25°	5887.1	4940.3	3358.9	3010.6	2890.9	2825.6	2789.4	2785.7	2753.1	2749.5	2749.5
27.5°	6050.3	4817.0	3144.8	2843.8	2731.3	2669.7	2666.0	2626.1	2542.7	2488.3	2495.6
30°	6177.2	4722.7	2996.1	2698.7	2589.9	2579.0	2546.3	2455.7	2346.8	2277.9	2277.9
32.5°	6402.1	4534.1	2793.0	2550.0	2495.6	2481.1	2404.9	2325.1	2223.5	2158.2	2147.3
35°	6569.0	4360.0	2658.8	2423.0	2397.6	2368.6	2303.3	2216.3	2187.2	2172.7	2183.6
37.5°	6757.6	4164.1	2495.6	2314.2	2339.6	2285.2	2209.0	2169.1	2270.7	2245.3	2256.2
40°	7058.7	4026.3	2336.0	2248.9	2274.3	2212.6	2114.7	2100.2	2227.1	2136.5	2114.7
42.5°	7610.0	4022.6	2238.0	2151.0	2169.1	2122.0	2034.9	2027.6	2078.4	1969.6	1937.0
45°	8295.6	4149.6	2165.5	2078.4	2063.9	2056.7	2027.6	1995.0	1951.5	1810.0	1773.7
47.5°	9115.3	4356.4	2151.0	1969.6	1987.7	2049.4	2013.1	1929.7	1817.3	1726.6	1708.4
50°	10109.2	4784.4	2114.7	1889.8	1922.5	2020.4	1991.4	1875.3	1773.7	1715.7	1704.8
52.5°	11208.3	5324.8	2067.5	1766.5	1839.0	1995.0	2009.5	1900.7	1752.0	1701.2	1693.9
55°	12503.2	6122.8	2013.1	1632.3	1741.1	1969.6	2009.5	1828.1	1723.0	1723.0	1715.7
57.5°	15060.4	7559.2	1900.7	1508.9	1654.0	1922.5	1951.5	1831.8	1726.6	1726.6	1712.1
60°	18811.0	9800.9	1686.7	1414.6	1570.6	1857.2	1907.9	1777.4	1686.7	1708.4	1704.8
62.5°	21745.5	10482.8	1505.3	1324.0	1487.2	1737.5	1849.9	1719.3	1639.5	1719.3	1726.6
65°	22373.0	9793.6	1320.3	1226.0	1371.1	1621.4	1766.5	1635.9	1570.6	1726.6	1733.8
66°	22148.1	9256.8	1255.0	1197.0	1320.3	1563.4	1715.7	1606.9	1534.3	1719.3	1723.0
67.5°	21147.0	8451.5	1182.5	1135.3	1251.4	1479.9	1657.7	1567.0	1476.3	1697.6	1664.9
70°	18970.6	7167.5	1059.2	1026.5	1153.5	1342.1	1523.5	1465.4	1385.6	1563.4	1505.3
72.5°	14610.7	5727.5	928.6	932.2	1041.0	1200.6	1389.2	1349.3	1280.4	1371.1	1334.8
75°	8897.7	3659.9	808.9	816.1	906.8	1066.4	1262.3	1233.3	1149.8	1200.6	1182.5
77.5°	3942.8	1813.6	681.9	696.4	769.0	939.5	1099.1	1051.9	964.9	975.7	968.5
80°	1530.7	859.7	555.0	573.1	620.3	750.8	910.4	866.9	790.7	776.2	769.0
82.5°	736.3	478.8	428.0	435.3	453.4	598.5	783.5	729.1	627.5	562.2	562.2
85°	370.0	297.4	301.1	275.7	301.1	406.3	529.6	442.5	366.4	326.5	333.7
87.5°	148.7	148.7	148.7	127.0	134.2	192.2	246.7	166.9	152.3	90.7	90.7
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)