

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: P480942

Luminaire Tested: **IFLD-S-SA6C-750-U-SL4**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480942
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6C-750-U-SL4
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (96) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

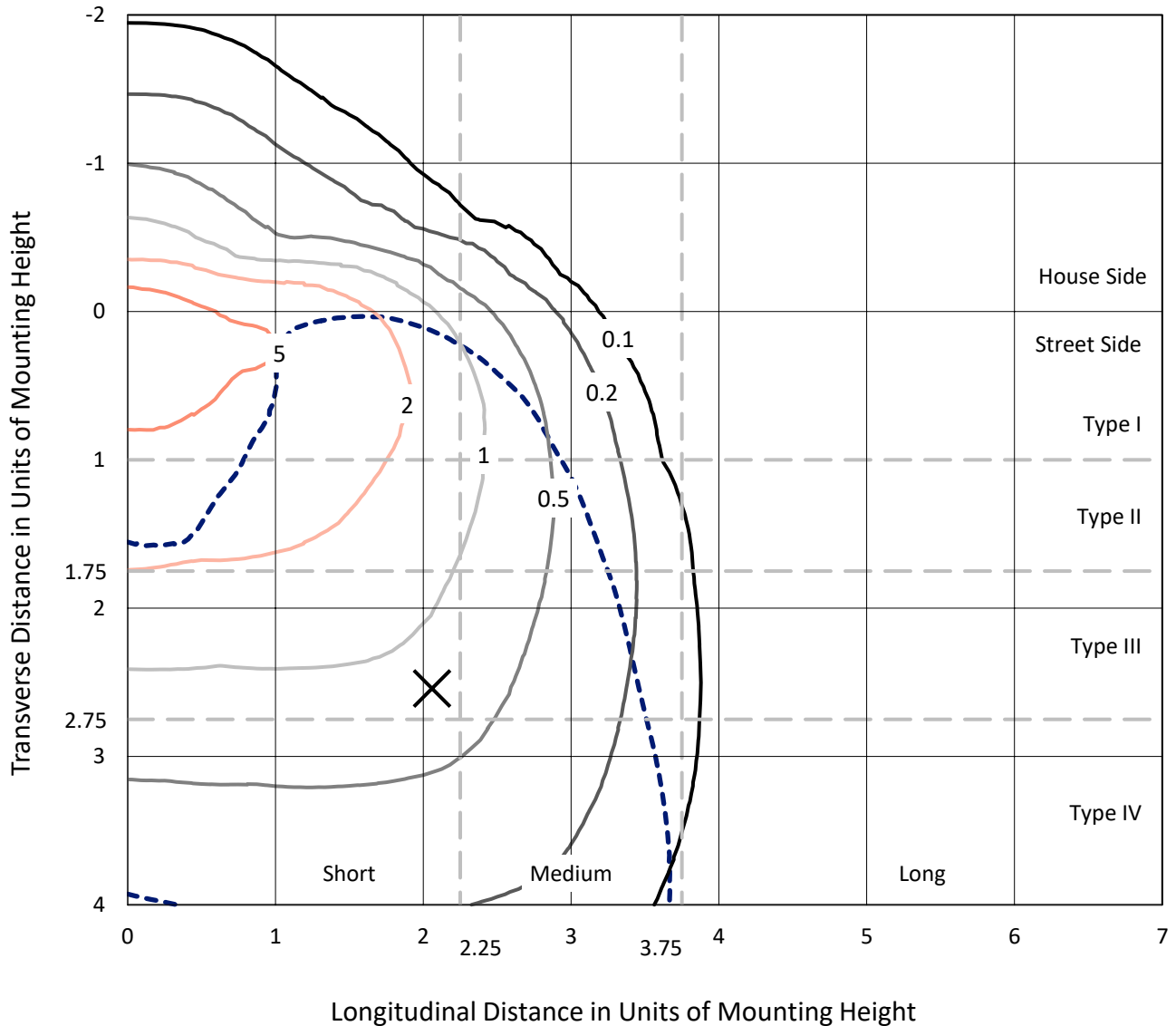
Lumens per Lamp: N/A
Luminaire Lumens: 41112.7 lumens
Efficiency: N/A
Efficacy: 127.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

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

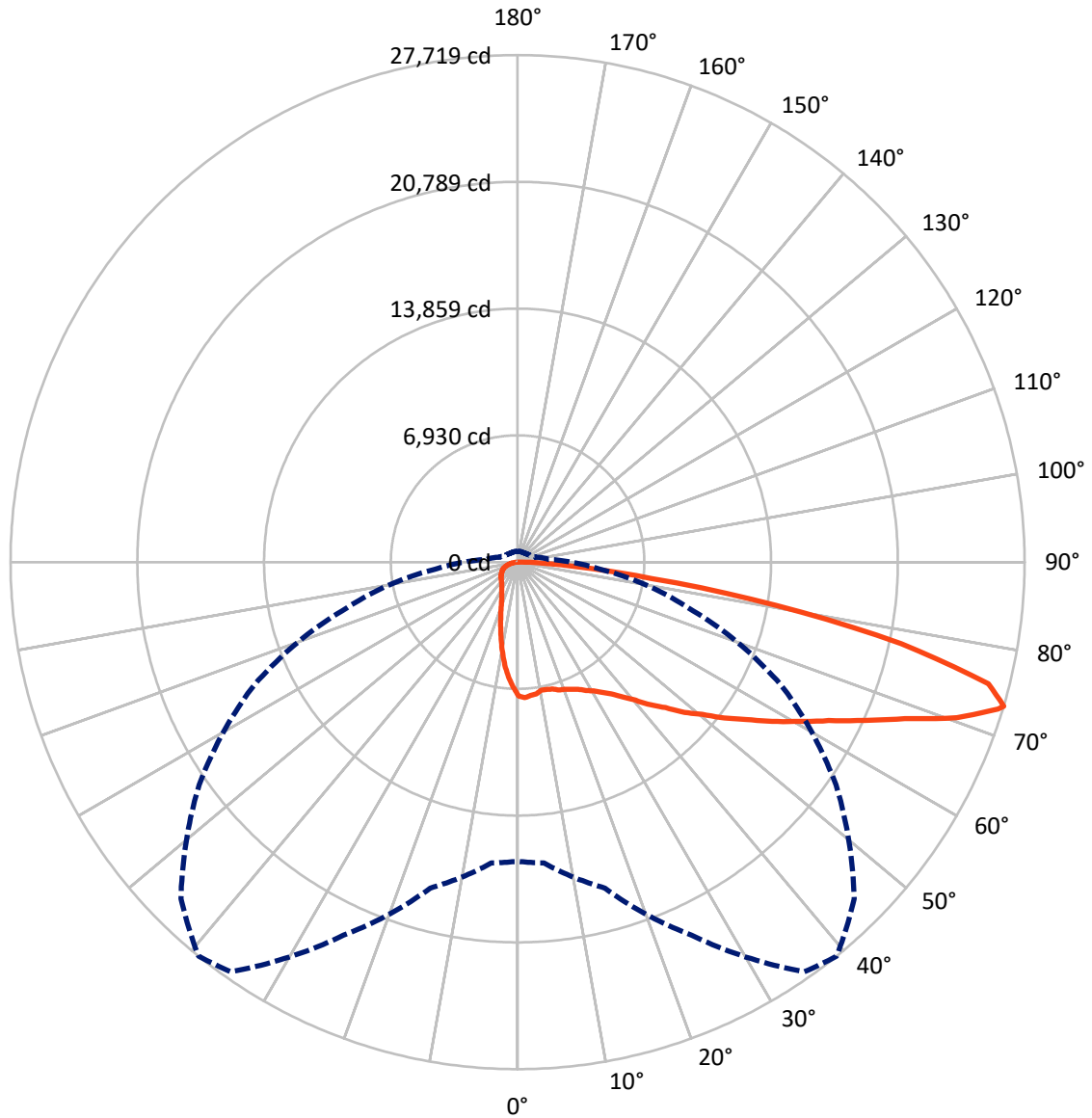
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5779.3	0.0	5779.3
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	35333.4	0.0	35333.4
	% Fixture	85.9	0.0	85.9
Total	Lumens	41112.7	0.0	41112.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	635.3	1.5
10°-20°	1615.0	3.9
20°-30°	2467.9	6.0
30°-40°	3598.2	8.8
40°-50°	5437.3	13.2
50°-60°	7873.6	19.2
60°-70°	10003.7	24.3
70°-80°	8109.6	19.7
80°-90°	1372.1	3.3
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°	41112.7	100.0
0°-180°	41112.7	100.0

Coefficient of Utilization



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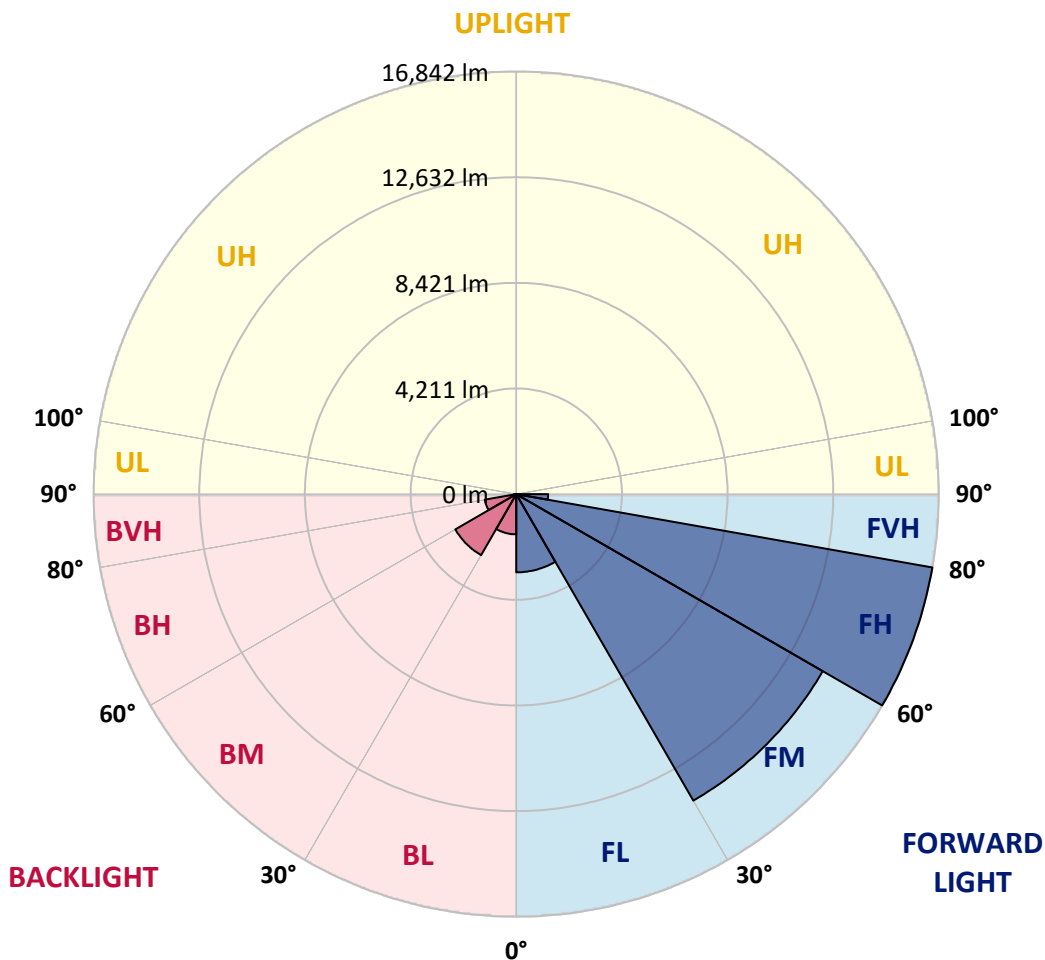
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3115.4	7.6			
FM (30°-60°)	14104.3	34.3			
FH (60°-80°)	16842.2	41.0			G5
FVH (80°-90°)	1271.4	3.1			G5
BL (0°-30°)	1602.7	3.9	B3/2500		
BM (30°-60°)	2804.8	6.8	B3/5000		
BH (60°-80°)	1271.1	3.1	B3/2500		G3/2500
BVH (80°-90°)	100.7	0.2			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	7318.3	7318.3	7318.3	7318.3	7318.3	7318.3	7318.3	7318.3	7318.3	7318.3	7318.3
2.5°	7493.1	7414.9	7428.7	7401.1	7428.7	7419.5	7405.7	7336.7	7405.7	7336.7	7318.3
5°	7391.9	7391.9	7437.9	7368.9	7378.1	7332.1	7378.1	7327.5	7281.5	7166.5	7134.3
7.5°	7359.7	7355.1	7359.7	7263.1	7309.1	7281.5	7235.5	7180.3	7088.3	7014.7	6908.9
10°	7138.9	7184.9	7134.3	7161.9	7198.7	7115.9	7111.3	7097.5	7056.1	6959.5	6895.1
12.5°	7019.3	7097.5	7125.1	7102.1	7134.3	7143.5	7115.9	7097.5	7046.9	6982.5	6798.5
15°	7069.9	6977.9	7056.1	7207.9	7175.7	7198.7	7203.3	7184.9	7161.9	7042.3	6922.7
17.5°	7083.7	7028.5	7194.1	7226.3	7267.7	7350.5	7295.3	7290.7	7203.3	7120.5	6945.7
20°	7115.9	7092.9	7226.3	7396.5	7401.1	7414.9	7442.5	7373.5	7327.5	7184.9	6918.1
22.5°	7235.5	7313.7	7437.9	7511.5	7552.9	7562.1	7562.1	7424.1	7373.5	7258.5	7046.9
25°	7594.3	7511.5	7686.3	7773.7	7713.9	7700.1	7667.9	7543.7	7488.5	7387.3	7106.7
27.5°	7856.5	7851.9	7953.1	8072.7	7911.7	7943.9	7828.9	7792.1	7667.9	7612.7	7212.5
30°	8215.3	8316.5	8311.9	8348.7	8137.1	8173.9	8026.7	7957.7	7888.7	7920.9	7525.3
32.5°	8675.2	8638.4	8698.2	8670.6	8459.1	8491.3	8316.5	8210.7	8233.7	8330.3	7953.1
35°	8969.6	8932.8	8955.8	8955.8	8891.4	8854.6	8781.0	8643.0	8753.4	8932.8	8431.5
37.5°	9287.0	9333.0	9466.4	9438.8	9356.0	9356.0	9346.8	9250.2	9392.8	9834.4	9195.0
40°	9567.6	9691.8	9774.6	9829.8	9926.4	9926.4	10004.6	9949.4	10207.0	10915.4	10128.8
42.5°	9862.0	9866.6	10317.4	10358.8	10575.0	10667.0	10726.8	10772.8	11255.7	12046.9	11126.9
45°	10239.2	10262.2	10657.8	10975.2	11310.9	11343.1	11568.5	11720.3	12313.7	13284.3	12212.5
47.5°	10736.0	10708.4	11131.5	11637.5	12056.1	12276.9	12548.3	12713.9	13445.3	14627.4	13399.3
50°	11389.1	11306.3	11550.1	12345.9	12838.1	13081.9	13564.8	13840.8	14696.4	15910.7	14213.4
52.5°	12184.9	12046.9	12240.1	13109.5	13661.4	14153.6	14613.6	14921.8	15814.2	16904.3	14816.0
55°	13026.7	12741.5	12796.7	13919.0	14714.8	15179.4	15809.6	16131.5	17042.3	17796.7	15418.6
57.5°	13859.2	13679.8	13569.4	14696.4	15970.5	16416.7	16996.3	17414.9	18187.7	18587.8	15929.1
60°	14558.4	14512.4	14333.0	15901.5	17299.9	17681.7	18288.9	18546.4	19130.6	19319.2	15938.3
62.5°	15133.4	14977.0	15262.2	16872.1	18652.2	19084.6	19751.6	19774.6	20188.6	19774.6	15469.2
65°	15584.2	15593.4	16048.7	18045.1	20216.2	20855.5	21393.7	21333.9	21067.1	19503.2	14360.6
67.5°	15993.5	16168.3	16835.3	19333.0	22226.3	22828.9	23426.8	22635.7	21306.3	18233.7	12194.1
70°	16315.5	16490.3	17897.9	20901.5	24595.2	25478.4	25611.8	23150.9	20207.0	15446.2	9199.6
72.5°	16278.7	16596.1	18500.4	22152.7	26697.3	27460.9	26384.5	21701.9	16835.3	10768.2	5368.0
73°	16356.9	16513.3	18449.8	22502.3	27336.7	27718.5	26025.7	21246.5	15878.6	9659.6	4540.0
75°	14848.2	15377.2	17534.5	21931.9	26651.3	26582.3	23965.0	17704.7	11287.9	5073.6	2198.7
77.5°	10984.4	11320.1	13817.8	18035.9	21876.7	21435.1	18077.3	11315.5	5358.8	1881.3	1186.8
80°	5368.0	5630.2	7322.9	10414.0	14305.4	14342.2	11218.9	5887.8	2295.3	1062.6	809.6
82.5°	2681.7	2838.1	3518.9	4576.8	7037.7	7373.5	5690.0	3348.7	1421.3	602.6	460.0
85°	1752.5	1862.9	2166.5	2240.1	2985.3	3150.9	2649.5	2612.7	924.6	326.6	372.6
87.5°	1163.8	1182.2	1329.3	1131.6	1196.0	1150.0	1278.7	1646.7	271.4	138.0	101.2
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°	7318.3	7318.3	7318.3	7318.3	7318.3	7318.3	7318.3	7318.3	7318.3	7318.3	7318.3
2.5°	7295.3	7230.9	7161.9	7065.3	6996.3	6890.5	6793.9	6752.5	6743.3	6747.9	6701.9
5°	7106.7	7014.7	6876.7	6678.9	6563.9	6389.1	6241.9	6163.7	6081.0	6094.8	6058.0
7.5°	6844.5	6743.3	6531.7	6301.7	6016.6	5768.2	5630.2	5437.0	5326.6	5243.8	5289.8
10°	6761.7	6586.9	6269.5	5952.2	5510.6	5184.0	4866.6	4645.8	4494.0	4346.8	4411.2
12.5°	6720.3	6545.5	6104.0	5634.8	5064.4	4567.6	4121.4	3850.0	3633.9	3505.1	3555.7
15°	6683.5	6467.3	5947.6	5285.2	4645.8	3992.6	3491.3	3132.5	2925.5	2801.3	2815.1
17.5°	6734.1	6425.9	5717.6	4944.8	4185.8	3486.7	2930.1	2557.5	2345.9	2267.7	2249.3
20°	6683.5	6379.9	5492.2	4604.4	3725.8	3003.7	2470.1	2161.9	2014.7	1950.3	1936.5
22.5°	6701.9	6269.5	5257.6	4227.2	3298.1	2598.9	2161.9	1927.3	1812.3	1780.1	1789.3
25°	6789.3	6205.1	5023.0	3813.2	2874.9	2299.9	1964.1	1784.7	1701.9	1669.7	1678.9
27.5°	6853.7	6260.3	4811.4	3422.3	2516.1	2033.1	1798.5	1678.9	1623.7	1600.7	1596.1
30°	7014.7	6292.5	4604.4	3072.7	2221.7	1858.3	1683.5	1586.9	1550.1	1536.3	1531.7
32.5°	7253.9	6352.3	4365.2	2750.7	2005.5	1692.7	1591.5	1508.7	1499.5	1485.7	1490.3
35°	7644.9	6559.3	4098.4	2474.7	1798.5	1582.3	1494.9	1439.7	1439.7	1439.7	1453.5
37.5°	8206.1	6849.1	3859.2	2212.5	1665.1	1485.7	1412.1	1393.7	1384.5	1398.3	1407.5
40°	8928.2	7198.7	3666.1	2005.5	1550.1	1421.3	1356.9	1347.7	1343.1	1338.5	1347.7
42.5°	9719.4	7644.9	3500.5	1844.5	1467.3	1352.3	1306.3	1297.1	1278.7	1287.9	1301.7
45°	10506.0	8196.9	3353.3	1715.7	1412.1	1315.5	1251.1	1246.5	1237.3	1232.7	1255.7
47.5°	11379.9	8739.6	3307.3	1637.5	1370.7	1260.3	1214.4	1209.8	1182.2	1177.6	1196.0
50°	12060.7	9139.8	3357.9	1600.7	1310.9	1219.0	1186.8	1163.8	1140.8	1117.8	1117.8
52.5°	12529.9	9415.8	3394.7	1573.1	1278.7	1163.8	1122.4	1113.2	1090.2	1067.2	1058.0
55°	12953.1	9581.4	3403.9	1577.7	1246.5	1099.4	1071.8	1067.2	1053.4	1016.6	1007.4
57.5°	13095.7	9512.4	3219.9	1536.3	1228.1	1058.0	1021.2	1030.4	1012.0	979.8	975.2
60°	13081.9	9034.0	2801.3	1481.1	1186.8	1012.0	966.0	993.6	993.6	956.8	952.2
62.5°	12286.1	7930.1	2290.7	1375.3	1140.8	966.0	915.4	956.8	970.6	947.6	943.0
65°	10634.8	6458.1	1913.5	1269.5	1071.8	915.4	864.8	910.8	933.8	924.6	920.0
67.5°	8799.4	4940.2	1591.5	1131.6	984.4	846.4	805.0	837.2	851.0	855.6	860.2
70°	6218.9	3288.9	1329.3	979.8	864.8	772.8	726.8	731.4	726.8	740.6	740.6
72.5°	3380.9	1895.1	1081.0	832.6	745.2	671.6	639.4	616.4	616.4	611.8	611.8
73°	2893.3	1701.9	1030.4	809.6	713.0	653.2	616.4	598.0	598.0	593.4	588.8
75°	1623.7	1246.5	883.2	694.6	616.4	570.4	542.8	515.2	510.6	510.6	510.6
77.5°	1067.2	970.6	703.8	556.6	496.8	455.4	446.2	418.6	418.6	418.6	414.0
80°	800.4	763.6	542.8	423.2	381.8	349.6	340.4	322.0	317.4	299.0	303.6
82.5°	533.6	602.6	395.6	299.0	257.6	239.2	239.2	234.6	220.8	197.8	197.8
85°	423.2	492.2	285.2	184.0	151.8	128.8	133.4	128.8	124.2	101.2	96.6
87.5°	78.2	197.8	82.8	50.6	36.8	23.0	23.0	13.8	9.2	0.0	0.0
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)