

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: P476930

Luminaire Tested: **IFLD-M-SA4C-730-U-T2R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476930
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-730-U-T2R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens
Light Source: (64) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

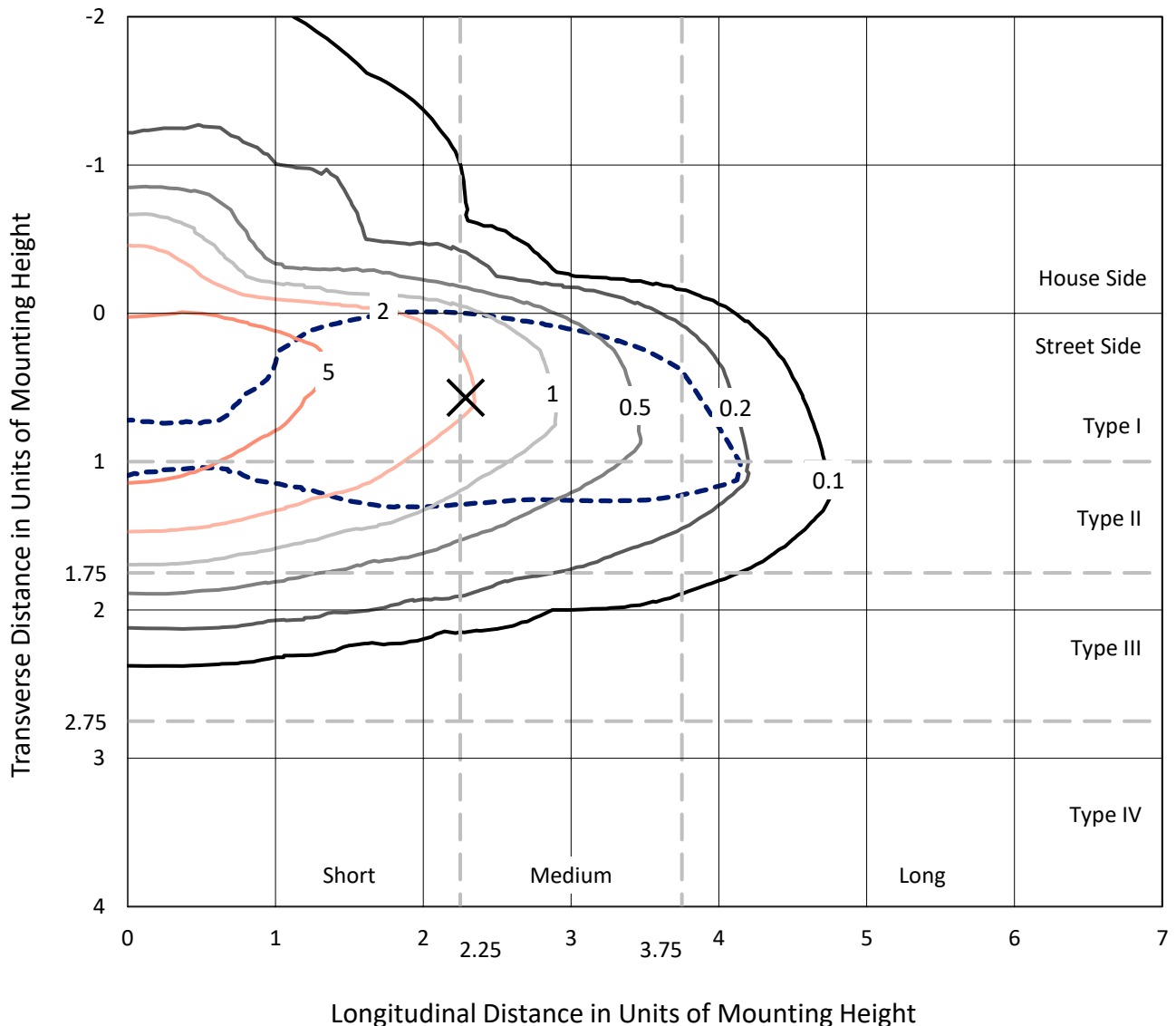
Lumens per Lamp: N/A
Luminaire Lumens: 26035.4 lumens
Efficiency: N/A
Efficacy: 119.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 218.1
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

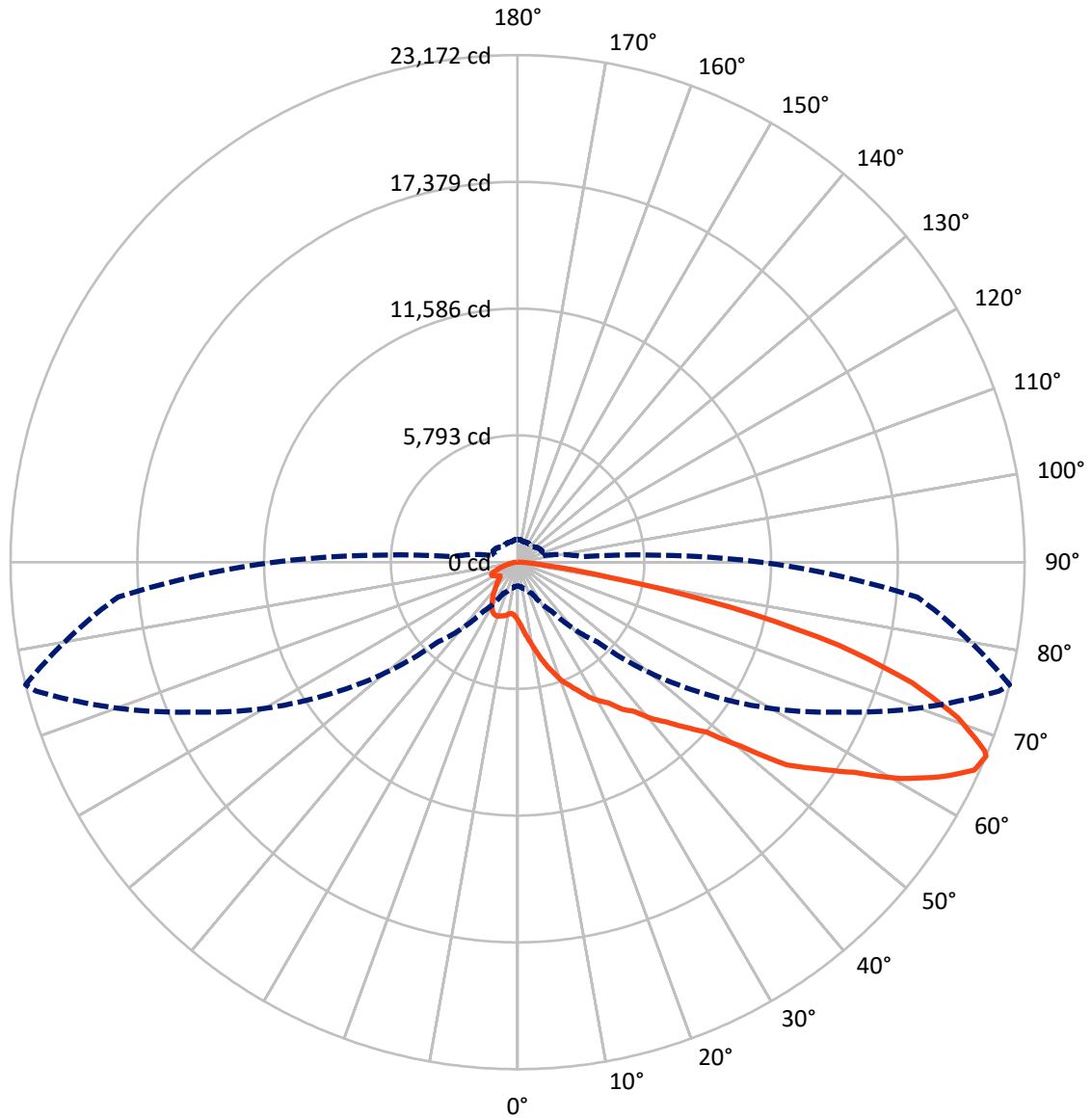
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 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	3703.9	0.0	3703.9
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	22331.5	0.0	22331.5
	% Fixture	85.8	0.0	85.8
Total	Lumens	26035.4	0.0	26035.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	308.6	1.2
10°-20°	1157.5	4.4
20°-30°	2152.0	8.3
30°-40°	3411.3	13.1
40°-50°	4718.2	18.1
50°-60°	5803.6	22.3
60°-70°	5400.6	20.7
70°-80°	2710.0	10.4
80°-90°	373.7	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°	26035.4	100.0
0°-180°	26035.4	100.0

Coefficient of Utilization



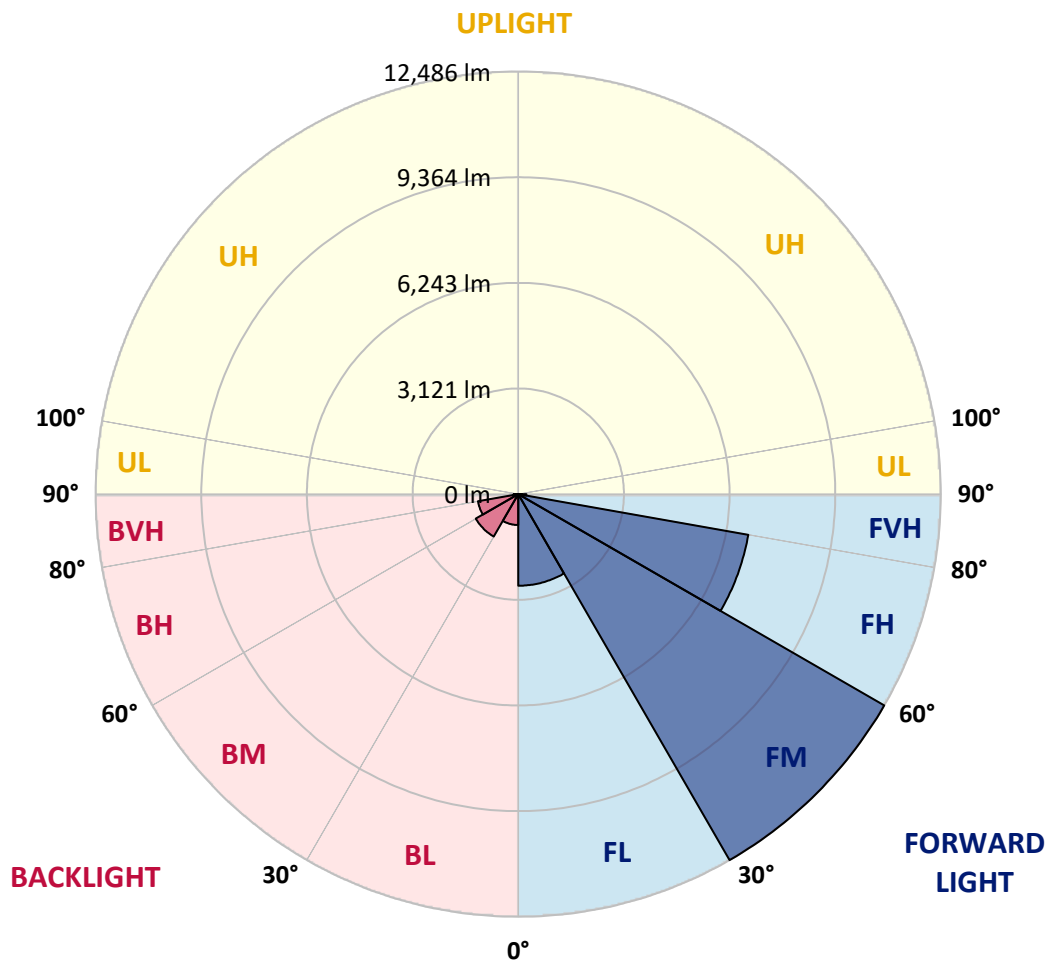
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2706.0	10.4			
FM (30°-60°)	12485.7	48.0			
FH (60°-80°)	6901.8	26.5			G3/7500
FVH (80°-90°)	238.1	0.9			G3/500
BL (0°-30°)	912.1	3.5	B2/1000		
BM (30°-60°)	1447.4	5.6	B2/2500		
BH (60°-80°)	1208.8	4.6	B3/2500		G3/2500
BVH (80°-90°)	135.6	0.5			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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2664.3	2664.3	2664.3	2664.3	2664.3	2664.3	2664.3	2664.3	2664.3	2664.3	2664.3
2.5°	3696.8	3652.3	3607.8	3512.9	3480.2	3391.2	3228.0	3047.1	2898.7	2877.9	2774.1
5°	4586.9	4521.6	4506.8	4453.4	4284.3	4112.2	3845.2	3554.4	3192.4	3219.1	2863.1
7.5°	5254.5	5215.9	5135.8	5085.4	4984.5	4756.0	4480.1	4094.4	3634.5	3545.5	3061.9
10°	5758.9	5705.5	5702.5	5658.0	5604.6	5370.2	5159.5	4640.3	4049.9	3928.2	3305.2
12.5°	6014.0	6005.1	6162.4	6162.4	6141.6	6043.7	5681.7	5207.0	4444.5	4403.0	3587.0
15°	6289.9	6215.8	6352.2	6456.1	6509.5	6559.9	6260.3	5758.9	4948.9	4868.8	3889.7
17.5°	6289.9	6284.0	6420.5	6592.6	6871.5	6936.7	6773.6	6266.2	5367.2	5307.9	4222.0
20°	6183.1	6269.2	6364.1	6595.5	6898.2	7162.2	7209.7	6785.4	5830.1	5782.6	4598.8
22.5°	6681.6	6598.5	6696.4	6785.4	7019.8	7420.4	7550.9	7242.3	6316.6	6135.7	4940.0
25°	7518.3	7461.9	7390.7	7260.1	7358.0	7533.1	7731.9	7580.6	6732.0	6530.3	5269.3
27.5°	8334.2	8337.1	8182.9	7898.0	7687.4	7723.0	7957.4	7877.3	7082.1	6993.1	5494.8
30°	9494.3	9423.0	9251.0	8865.3	8452.9	8114.6	8076.0	8153.2	7527.2	7355.1	5818.2
32.5°	10363.6	10378.4	10135.1	9580.3	9016.6	8740.6	8402.4	8435.1	7809.0	7681.4	6076.3
35°	11066.7	11048.9	10876.9	10417.0	9749.4	9417.1	8960.2	8773.3	8464.7	8263.0	6470.9
37.5°	11826.3	11680.9	11402.0	10882.8	10455.5	9995.7	9550.6	9129.3	8900.9	8657.6	6809.2
40°	12131.9	12131.9	11758.0	11520.7	11013.3	10666.2	10378.4	9598.1	9431.9	9384.5	7242.3
42.5°	11915.3	12048.8	11894.5	11624.5	11416.8	10977.7	10900.6	10084.7	10087.6	9992.7	7761.6
45°	11894.5	11710.6	11583.0	11651.2	11553.3	11529.6	11725.4	10758.2	10776.0	10764.1	8458.8
47.5°	11298.2	11215.1	11405.0	11517.7	11597.8	11965.7	12529.4	11562.2	11689.8	11600.8	9262.8
50°	10704.8	10689.9	10808.6	11218.1	11565.2	12170.4	13294.9	12802.4	13220.7	13214.8	10719.6
52.5°	9078.9	9236.1	9701.9	10568.3	11425.7	12449.3	13873.5	14386.8	15184.9	15401.5	11927.2
55°	7524.2	7441.1	8129.5	9387.4	10817.5	12559.1	14520.3	15339.2	16514.1	16671.3	13167.3
57.5°	5853.8	6008.1	6551.0	7758.6	9559.5	12016.2	14995.0	16279.7	18015.3	18137.0	14606.3
60°	4367.4	4388.1	4984.5	5957.6	7886.2	10790.8	15149.3	17243.9	19736.2	20083.3	16113.5
62.5°	2747.4	2872.0	3326.0	4284.3	5936.9	9075.9	14458.0	17828.4	21540.1	21632.1	17632.6
65°	1480.5	1560.6	1901.8	2504.1	4147.8	6865.5	12624.4	17478.3	22388.6	22934.6	18309.1
67°	1094.8	1109.6	1266.9	1599.2	2774.1	5168.4	10526.8	16211.4	22774.3	23171.9	18335.8
67.5°	1026.6	1047.3	1171.9	1436.0	2459.6	4759.0	9977.9	15760.5	22602.3	23029.5	18128.1
70°	878.2	884.2	913.8	988.0	1379.6	2863.1	6794.3	12915.2	20949.7	21359.1	16671.3
72.5°	780.3	786.2	798.1	812.9	934.6	1655.6	4133.0	9939.3	18208.2	18860.9	14383.8
75°	685.4	706.1	712.1	700.2	795.1	1077.0	2198.5	7304.6	14852.6	15170.0	11185.4
77.5°	581.5	590.4	602.3	614.2	709.1	804.0	1056.2	4931.1	10194.5	10001.6	6049.6
80°	489.5	492.5	501.4	510.3	614.2	614.2	599.3	2664.3	4453.4	4257.6	2044.2
82.5°	350.1	370.9	391.6	415.4	510.3	412.4	391.6	1186.8	1409.3	1341.1	691.3
85°	136.5	166.1	258.1	284.8	323.4	222.5	261.1	513.3	587.5	581.5	258.1
87.5°	23.7	26.7	71.2	109.8	118.7	77.1	124.6	184.0	219.6	237.4	94.9
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°	2664.3	2664.3	2664.3	2664.3	2664.3	2664.3	2664.3	2664.3	2664.3	2664.3	2664.3
2.5°	2688.1	2596.1	2486.3	2376.5	2305.3	2192.6	2183.7	2115.4	2106.5	2082.8	2094.7
5°	2708.8	2599.1	2376.5	2201.5	2121.4	2056.1	2070.9	2041.3	2032.4	2017.5	1993.8
7.5°	2872.0	2655.4	2323.1	2171.8	2112.5	2082.8	2082.8	2047.2	2020.5	2038.3	2056.1
10°	2978.8	2682.1	2364.7	2213.3	2165.9	2100.6	2124.3	2079.8	2094.7	2059.1	2059.1
12.5°	3150.9	2833.4	2450.7	2275.7	2198.5	2139.2	2162.9	2112.5	2100.6	2103.6	2094.7
15°	3382.3	2934.3	2489.3	2311.3	2257.9	2183.7	2165.9	2121.4	2076.9	2062.0	2079.8
17.5°	3598.9	3058.9	2516.0	2332.0	2246.0	2162.9	2142.1	2085.8	2070.9	2026.4	1990.8
20°	3857.0	3207.3	2551.6	2349.8	2201.5	2118.4	2065.0	2008.6	1958.2	1931.5	1943.4
22.5°	4029.1	3284.4	2569.4	2314.2	2136.2	2059.1	1946.3	1907.8	1836.5	1806.9	1783.1
25°	4311.0	3379.4	2524.9	2216.3	2020.5	1895.9	1795.0	1741.6	1691.2	1652.6	1640.7
27.5°	4382.2	3450.6	2421.0	2050.2	1836.5	1706.0	1620.0	1554.7	1522.0	1462.7	1450.8
30°	4589.9	3379.4	2266.8	1848.4	1661.5	1528.0	1441.9	1394.5	1317.3	1302.5	1269.9
32.5°	4723.4	3400.1	2070.9	1652.6	1459.7	1341.1	1284.7	1237.2	1216.5	1145.2	1127.4
35°	4945.9	3328.9	1872.1	1471.6	1293.6	1201.6	1154.1	1139.3	1071.1	1038.4	1008.8
37.5°	5088.3	3287.4	1673.4	1266.9	1112.6	1074.0	1088.9	1026.6	943.5	881.2	860.4
40°	5337.6	3272.6	1447.9	1097.8	988.0	979.1	1026.6	907.9	756.6	703.2	673.5
42.5°	5696.6	3171.7	1272.8	946.5	890.1	928.7	937.6	756.6	670.5	626.0	605.3
45°	6040.7	3192.4	1100.7	783.3	774.4	830.7	810.0	640.9	590.4	557.8	575.6
47.5°	6702.3	3296.3	931.6	652.7	697.2	750.6	629.0	572.6	525.2	501.4	504.4
50°	7725.9	3397.2	783.3	596.4	658.7	679.4	540.0	519.2	516.3	468.8	465.8
52.5°	8340.1	3358.6	756.6	667.6	706.1	679.4	587.5	572.6	548.9	528.1	504.4
55°	9316.2	3471.3	812.9	780.3	801.1	652.7	658.7	652.7	634.9	581.5	596.4
57.5°	10093.6	3545.5	887.1	872.3	860.4	679.4	688.3	691.3	679.4	655.7	676.5
60°	11161.7	3693.9	964.3	967.2	970.2	738.8	753.6	771.4	768.4	759.5	765.5
62.5°	11817.4	3625.6	1050.3	1097.8	1082.9	860.4	857.4	869.3	869.3	884.2	893.1
65°	11719.5	3373.4	1094.8	1213.5	1136.3	949.4	949.4	955.4	958.3	988.0	991.0
67°	11132.0	2922.4	1071.1	1231.3	1136.3	985.0	985.0	991.0	970.2	1047.3	1023.6
67.5°	10859.1	2788.9	1050.3	1216.5	1127.4	982.1	982.1	985.0	967.2	1041.4	1017.7
70°	9443.8	2070.9	904.9	1077.0	1044.4	955.4	955.4	937.6	922.7	1020.6	999.9
72.5°	8061.2	1504.2	726.9	916.8	943.5	919.8	925.7	881.2	839.6	907.9	890.1
75°	6174.2	1106.7	566.7	706.1	798.1	860.4	899.0	786.2	732.8	750.6	718.0
77.5°	3444.6	721.0	448.0	522.2	608.2	801.1	863.4	709.1	599.3	578.6	578.6
80°	1169.0	421.3	329.3	388.7	418.3	709.1	807.0	575.6	471.7	451.0	436.1
82.5°	442.1	258.1	225.5	267.0	267.0	560.8	658.7	442.1	356.0	459.9	468.8
85°	201.8	154.3	148.3	154.3	154.3	344.2	465.8	287.8	320.4	275.9	243.3
87.5°	80.1	74.2	68.2	65.3	53.4	59.3	160.2	77.1	145.4	38.6	35.6
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)