

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: P477084

Luminaire Tested: **IFLD-M-SA4A-760-U-T2R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P477084
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-760-U-T2R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens
Light Source: (64) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

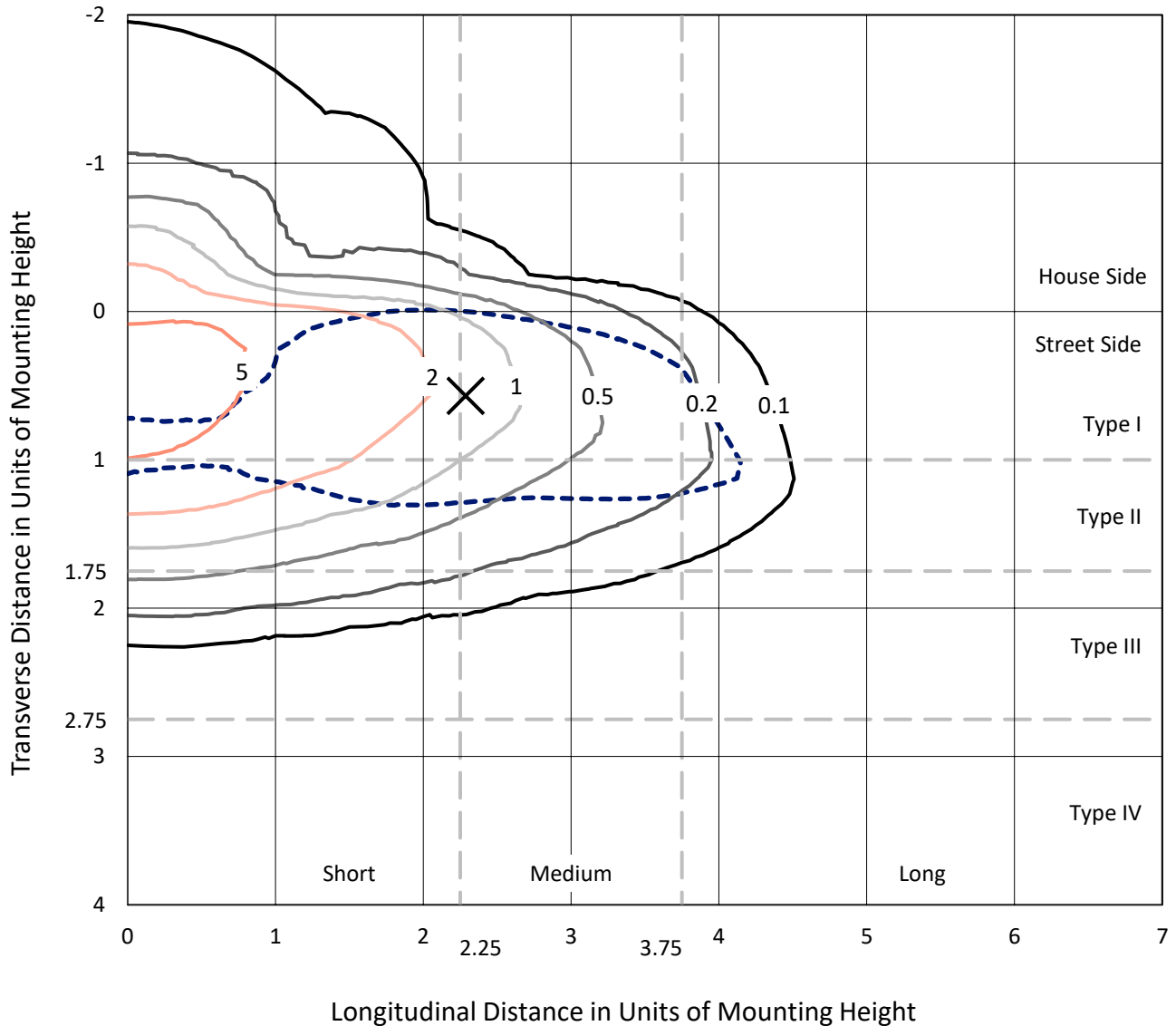
Lumens per Lamp: N/A
Luminaire Lumens: 18996.4 lumens
Efficiency: N/A
Efficacy: 147.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G3

Input Watts (W): 128.6
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

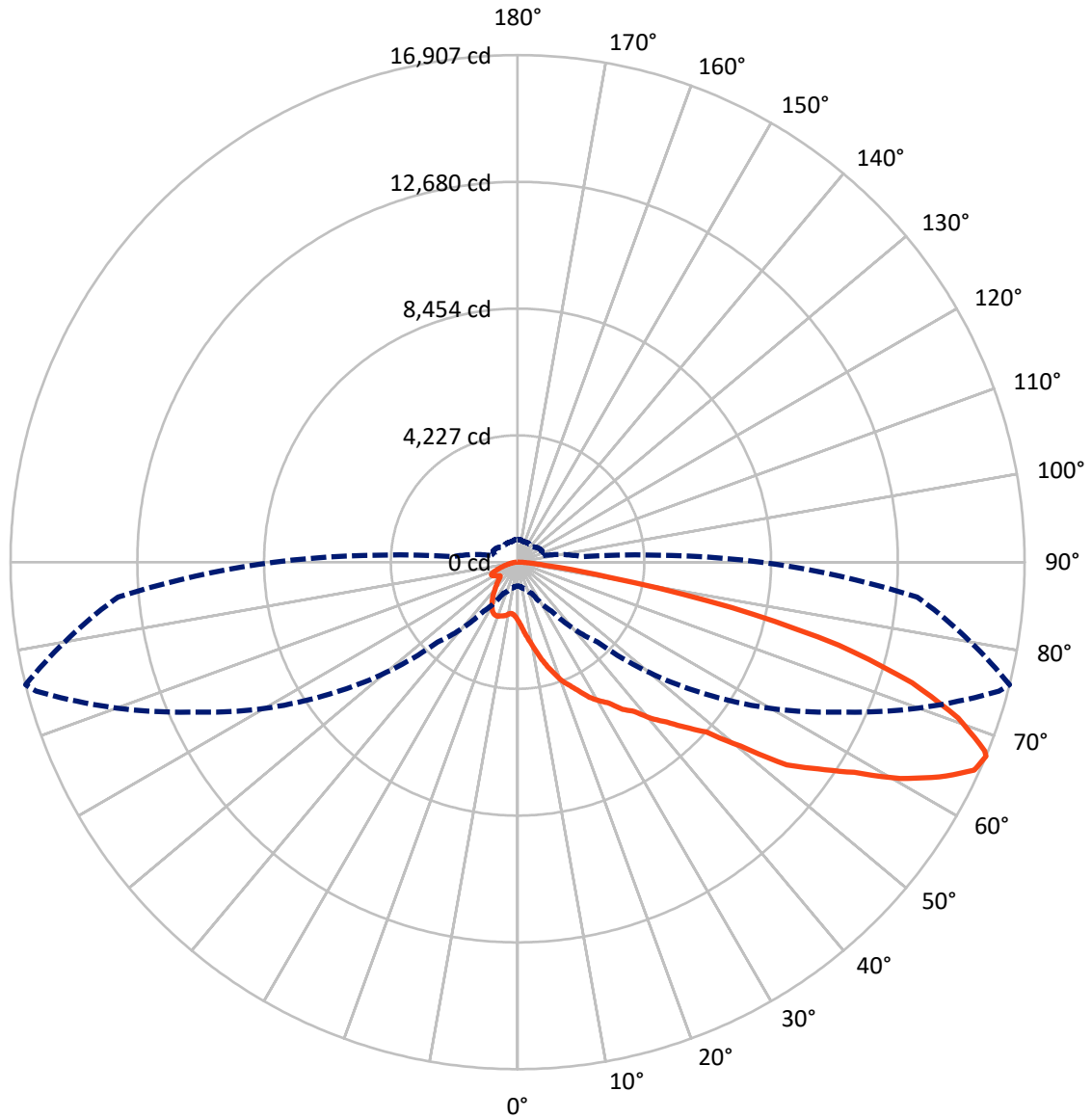
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 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	2702.5	0.0	2702.5
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	16294.0	0.0	16294.0
	% Fixture	85.8	0.0	85.8
Total	Lumens	18996.4	0.0	18996.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	225.2	1.2
10°-20°	844.6	4.4
20°-30°	1570.1	8.3
30°-40°	2489.0	13.1
40°-50°	3442.6	18.1
50°-60°	4234.6	22.3
60°-70°	3940.5	20.7
70°-80°	1977.3	10.4
80°-90°	272.6	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°	18996.4	100.0
0°-180°	18996.4	100.0

Coefficient of Utilization



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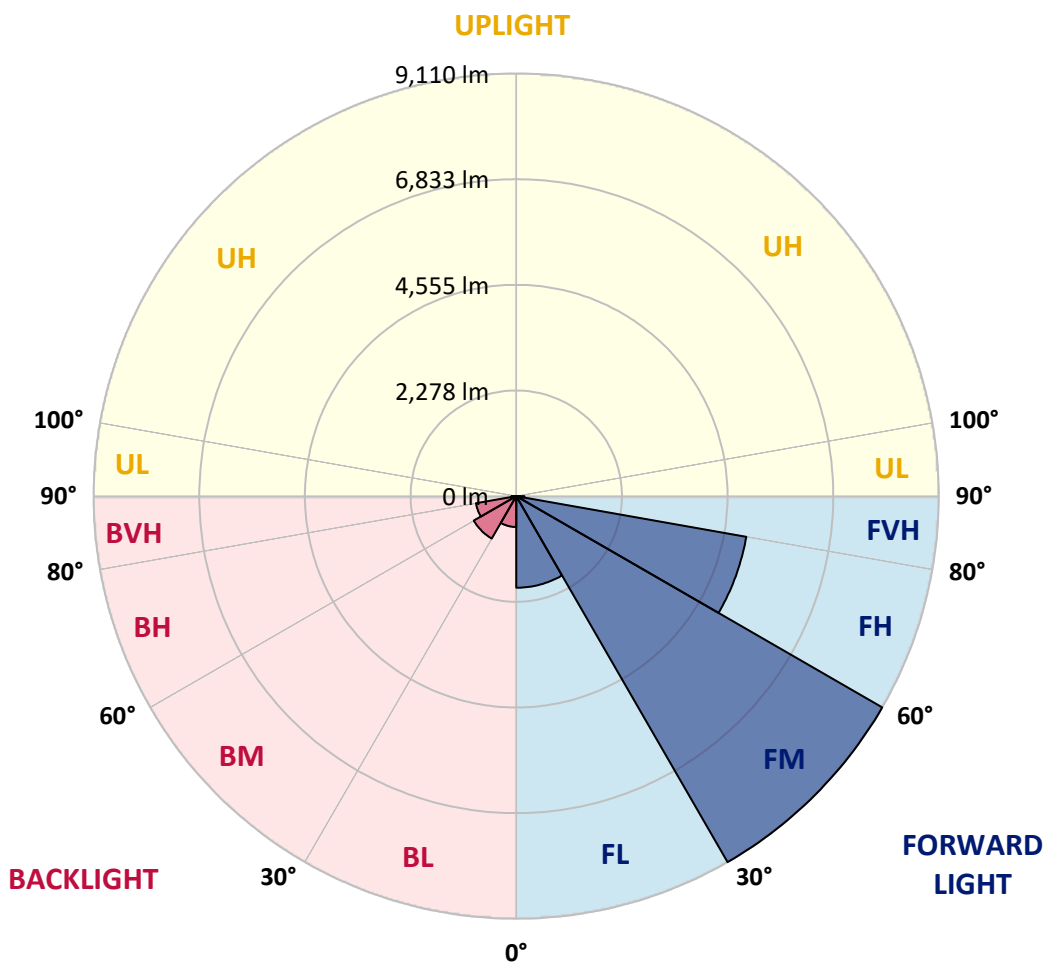
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1974.4	10.4			
FM (30°-60°)	9110.1	48.0			
FH (60°-80°)	5035.8	26.5			G3/7500
FVH (80°-90°)	173.7	0.9			G2/225
BL (0°-30°)	665.5	3.5	B2/1000		
BM (30°-60°)	1056.1	5.6	B2/2500		
BH (60°-80°)	882.0	4.6	B2/1000		G2/1000
BVH (80°-90°)	98.9	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1944.0	1944.0	1944.0	1944.0	1944.0	1944.0	1944.0	1944.0	1944.0	1944.0	1944.0
2.5°	2697.3	2664.9	2632.4	2563.1	2539.3	2474.4	2355.3	2223.3	2115.0	2099.9	2024.1
5°	3346.8	3299.2	3288.3	3249.4	3126.0	3000.4	2805.6	2593.4	2329.3	2348.8	2089.0
7.5°	3833.9	3805.7	3747.3	3710.5	3636.9	3470.2	3268.9	2987.4	2651.9	2586.9	2234.1
10°	4201.9	4162.9	4160.8	4128.3	4089.3	3918.3	3764.6	3385.8	2955.0	2866.2	2411.6
12.5°	4388.1	4381.6	4496.3	4496.3	4481.1	4409.7	4145.6	3799.2	3242.9	3212.6	2617.2
15°	4589.4	4535.3	4634.8	4710.6	4749.6	4786.4	4567.7	4201.9	3610.9	3552.4	2838.1
17.5°	4589.4	4585.1	4684.6	4810.2	5013.7	5061.3	4942.2	4572.1	3916.1	3872.8	3080.5
20°	4511.5	4574.2	4643.5	4812.4	5033.2	5225.8	5260.5	4950.9	4253.8	4219.2	3355.4
22.5°	4875.1	4814.5	4886.0	4950.9	5121.9	5414.2	5509.4	5284.3	4608.9	4476.8	3604.4
25°	5485.6	5444.5	5392.5	5297.3	5368.7	5496.4	5641.5	5531.1	4911.9	4764.7	3844.7
27.5°	6080.9	6083.1	5970.5	5762.7	5609.0	5635.0	5806.0	5747.6	5167.4	5102.4	4009.2
30°	6927.4	6875.4	6749.9	6468.4	6167.5	5920.7	5892.6	5948.9	5492.1	5366.6	4245.2
32.5°	7561.7	7572.5	7395.0	6990.2	6578.8	6377.5	6130.7	6154.5	5697.8	5604.7	4433.5
35°	8074.7	8061.7	7936.2	7600.6	7113.5	6871.1	6537.7	6401.3	6176.2	6029.0	4721.4
37.5°	8628.9	8522.8	8319.3	7940.5	7628.8	7293.2	6968.5	6661.1	6494.4	6316.9	4968.2
40°	8851.9	8851.9	8579.1	8405.9	8035.8	7782.5	7572.5	7003.1	6881.9	6847.3	5284.3
42.5°	8693.9	8791.3	8678.7	8481.7	8330.2	8009.8	7953.5	7358.2	7360.3	7291.1	5663.1
45°	8678.7	8544.5	8451.4	8501.2	8429.8	8412.4	8555.3	7849.6	7862.6	7853.9	6171.9
47.5°	8243.6	8183.0	8321.5	8403.8	8462.2	8730.7	9142.0	8436.2	8529.3	8464.4	6758.5
50°	7810.6	7799.8	7886.4	8185.1	8438.4	8880.0	9700.5	9341.1	9646.4	9642.0	7821.4
52.5°	6624.3	6739.0	7078.9	7711.0	8336.7	9083.5	10122.6	10497.1	11079.5	11237.5	8702.5
55°	5489.9	5429.3	5931.6	6849.4	7892.9	9163.6	10594.6	11192.0	12049.3	12164.0	9607.4
57.5°	4271.2	4383.7	4779.9	5661.0	6975.0	8767.5	10940.9	11878.3	13144.7	13233.5	10657.3
60°	3186.6	3201.7	3636.9	4346.9	5754.1	7873.4	11053.5	12581.8	14400.3	14653.6	11757.1
62.5°	2004.6	2095.5	2426.7	3126.0	4331.8	6622.1	10549.1	13008.3	15716.5	15783.6	12865.4
65°	1080.2	1138.7	1387.6	1827.1	3026.4	5009.4	9211.2	12752.9	16335.6	16733.9	13359.0
67°	798.8	809.6	924.4	1166.8	2024.1	3771.1	7680.7	11828.5	16617.0	16907.1	13378.5
67.5°	749.0	764.2	855.1	1047.8	1794.6	3472.3	7280.2	11499.4	16491.5	16803.2	13227.0
70°	640.8	645.1	666.8	720.9	1006.6	2089.0	4957.4	9423.4	15285.7	15584.4	12164.0
72.5°	569.3	573.7	582.3	593.2	681.9	1208.0	3015.6	7252.1	13285.4	13761.7	10495.0
75°	500.1	515.2	519.6	510.9	580.2	785.8	1604.1	5329.7	10837.0	11068.6	8161.3
77.5°	424.3	430.8	439.5	448.1	517.4	586.7	770.7	3597.9	7438.3	7297.6	4414.0
80°	357.2	359.4	365.9	372.3	448.1	448.1	437.3	1944.0	3249.4	3106.5	1491.6
82.5°	255.4	270.6	285.8	303.1	372.3	300.9	285.8	865.9	1028.3	978.5	504.4
85°	99.6	121.2	188.3	207.8	236.0	162.4	190.5	374.5	428.6	424.3	188.3
87.5°	17.3	19.5	52.0	80.1	86.6	56.3	90.9	134.2	160.2	173.2	69.3
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°	1944.0	1944.0	1944.0	1944.0	1944.0	1944.0	1944.0	1944.0	1944.0	1944.0	1944.0
2.5°	1961.3	1894.2	1814.1	1734.0	1682.1	1599.8	1593.3	1543.5	1537.0	1519.7	1528.4
5°	1976.5	1896.4	1734.0	1606.3	1547.8	1500.2	1511.0	1489.4	1482.9	1472.1	1454.7
7.5°	2095.5	1937.5	1695.0	1584.6	1541.3	1519.7	1519.7	1493.7	1474.2	1487.2	1500.2
10°	2173.5	1957.0	1725.3	1614.9	1580.3	1532.7	1550.0	1517.5	1528.4	1502.4	1502.4
12.5°	2299.0	2067.4	1788.1	1660.4	1604.1	1560.8	1578.1	1541.3	1532.7	1534.8	1528.4
15°	2467.9	2141.0	1816.3	1686.4	1647.4	1593.3	1580.3	1547.8	1515.4	1504.5	1517.5
17.5°	2625.9	2231.9	1835.8	1701.5	1638.8	1578.1	1563.0	1521.9	1511.0	1478.6	1452.6
20°	2814.2	2340.2	1861.7	1714.5	1606.3	1545.7	1506.7	1465.6	1428.8	1409.3	1417.9
22.5°	2939.8	2396.4	1874.7	1688.5	1558.7	1502.4	1420.1	1392.0	1340.0	1318.4	1301.0
25°	3145.5	2465.7	1842.2	1617.1	1474.2	1383.3	1309.7	1270.7	1233.9	1205.8	1197.1
27.5°	3197.4	2517.7	1766.5	1495.9	1340.0	1244.8	1182.0	1134.4	1110.5	1067.2	1058.6
30°	3349.0	2465.7	1653.9	1348.7	1212.3	1114.9	1052.1	1017.5	961.2	950.3	926.5
32.5°	3446.4	2480.9	1511.0	1205.8	1065.1	978.5	937.4	902.7	887.6	835.6	822.6
35°	3608.7	2428.9	1366.0	1073.7	943.9	876.7	842.1	831.3	781.5	757.7	736.0
37.5°	3712.6	2398.6	1221.0	924.4	811.8	783.7	794.5	749.0	688.4	642.9	627.8
40°	3894.5	2387.8	1056.4	801.0	720.9	714.4	749.0	662.4	552.0	513.1	491.4
42.5°	4156.4	2314.2	928.7	690.6	649.4	677.6	684.1	552.0	489.2	456.8	441.6
45°	4407.5	2329.3	803.1	571.5	565.0	606.1	591.0	467.6	430.8	407.0	420.0
47.5°	4890.3	2405.1	679.7	476.3	508.7	547.7	458.9	417.8	383.2	365.9	368.0
50°	5637.2	2478.7	571.5	435.1	480.6	495.7	394.0	378.8	376.7	342.0	339.9
52.5°	6085.3	2450.6	552.0	487.1	515.2	495.7	428.6	417.8	400.5	385.3	368.0
55°	6797.5	2532.8	593.2	569.3	584.5	476.3	480.6	476.3	463.3	424.3	435.1
57.5°	7364.7	2586.9	647.3	636.5	627.8	495.7	502.2	504.4	495.7	478.4	493.6
60°	8144.0	2695.2	703.6	705.7	707.9	539.0	549.9	562.8	560.7	554.2	558.5
62.5°	8622.4	2645.4	766.3	801.0	790.2	627.8	625.6	634.3	634.3	645.1	651.6
65°	8551.0	2461.4	798.8	885.4	829.1	692.7	692.7	697.1	699.2	720.9	723.0
67°	8122.3	2132.3	781.5	898.4	829.1	718.7	718.7	723.0	707.9	764.2	746.9
67.5°	7923.2	2034.9	766.3	887.6	822.6	716.6	716.6	718.7	705.7	759.8	742.5
70°	6890.6	1511.0	660.3	785.8	762.0	697.1	697.1	684.1	673.3	744.7	729.5
72.5°	5881.8	1097.6	530.4	668.9	688.4	671.1	675.4	642.9	612.6	662.4	649.4
75°	4505.0	807.5	413.5	515.2	582.3	627.8	655.9	573.7	534.7	547.7	523.9
77.5°	2513.3	526.0	326.9	381.0	443.8	584.5	630.0	517.4	437.3	422.1	422.1
80°	852.9	307.4	240.3	283.6	305.2	517.4	588.8	420.0	344.2	329.1	318.2
82.5°	322.6	188.3	164.5	194.8	194.8	409.1	480.6	322.6	259.8	335.5	342.0
85°	147.2	112.6	108.2	112.6	112.6	251.1	339.9	210.0	233.8	201.3	177.5
87.5°	58.4	54.1	49.8	47.6	39.0	43.3	116.9	56.3	106.1	28.1	26.0
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)