

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: P476933

Luminaire Tested: **IFLD-L-SA7A-730-U-T2R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476933
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-730-U-T2R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens
Light Source: (112) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

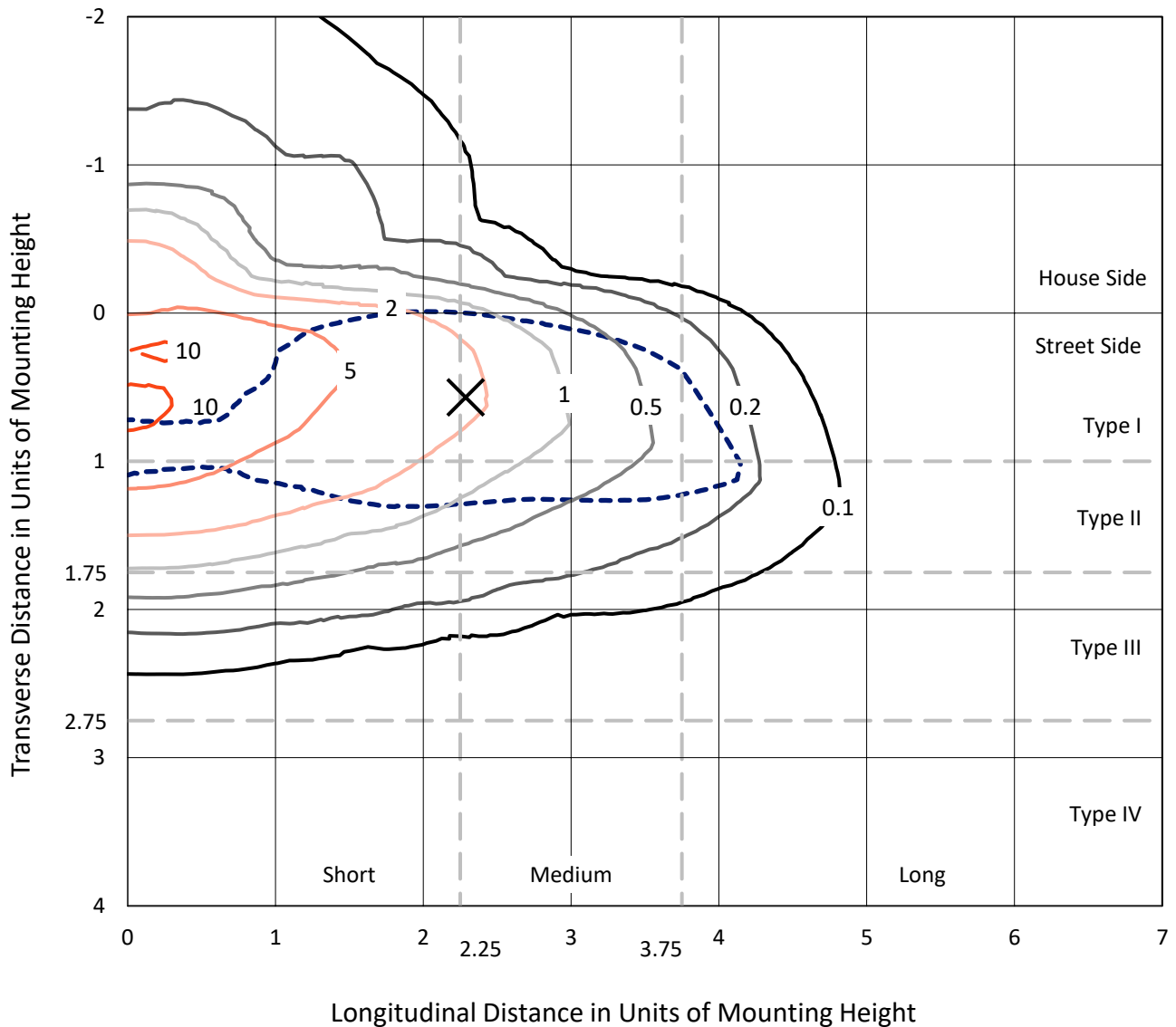
Lumens per Lamp: N/A
Luminaire Lumens: 28662.4 lumens
Efficiency: N/A
Efficacy: 131.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 217.6
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

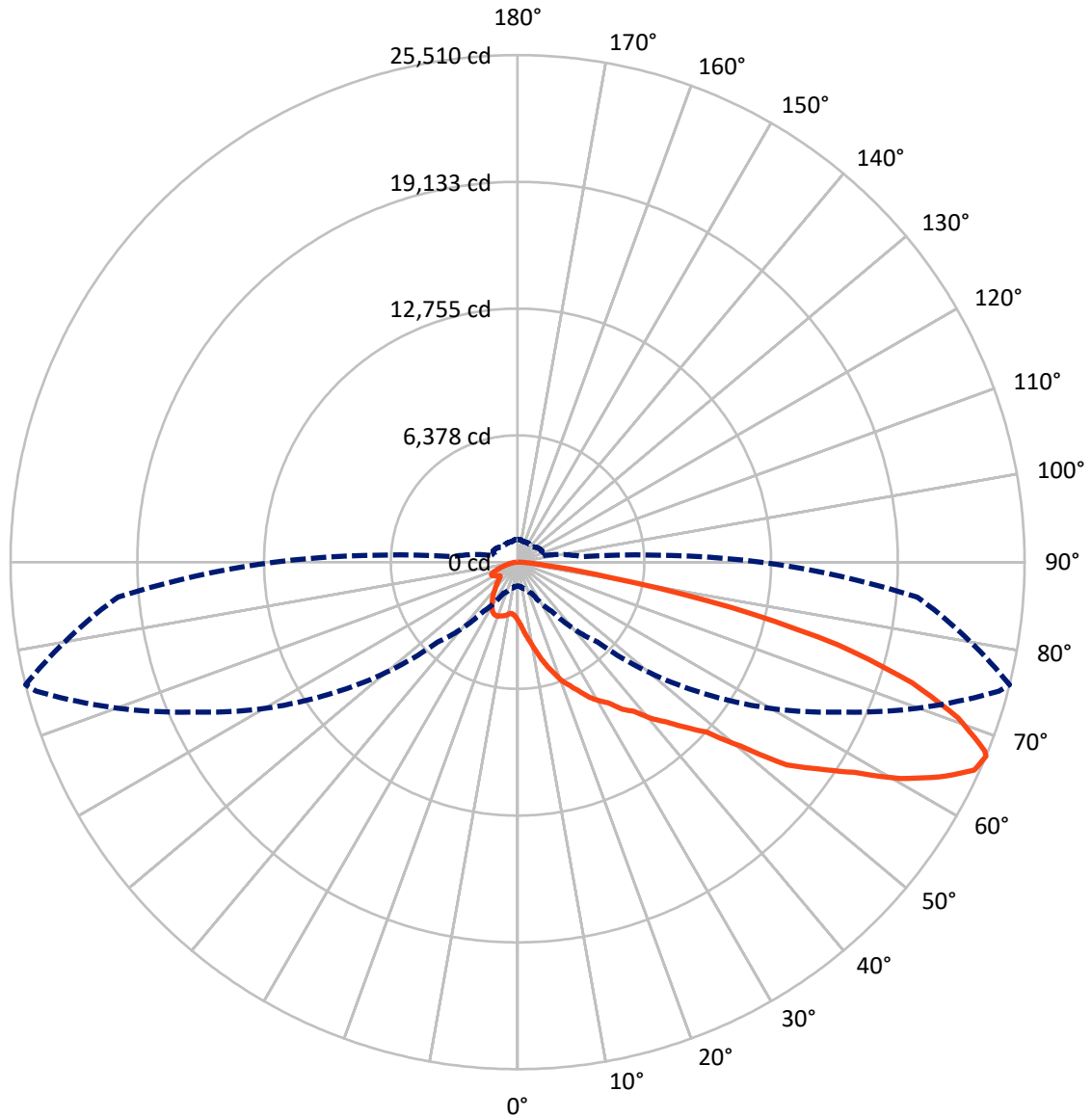
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 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	4077.6	0.0	4077.6
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	24584.9	0.0	24584.9
	% Fixture	85.8	0.0	85.8
Total	Lumens	28662.4	0.0	28662.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	339.8	1.2
10°-20°	1274.3	4.4
20°-30°	2369.1	8.3
30°-40°	3755.5	13.1
40°-50°	5194.2	18.1
50°-60°	6389.2	22.3
60°-70°	5945.5	20.7
70°-80°	2983.4	10.4
80°-90°	411.4	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°	28662.4	100.0
0°-180°	28662.4	100.0

Coefficient of Utilization



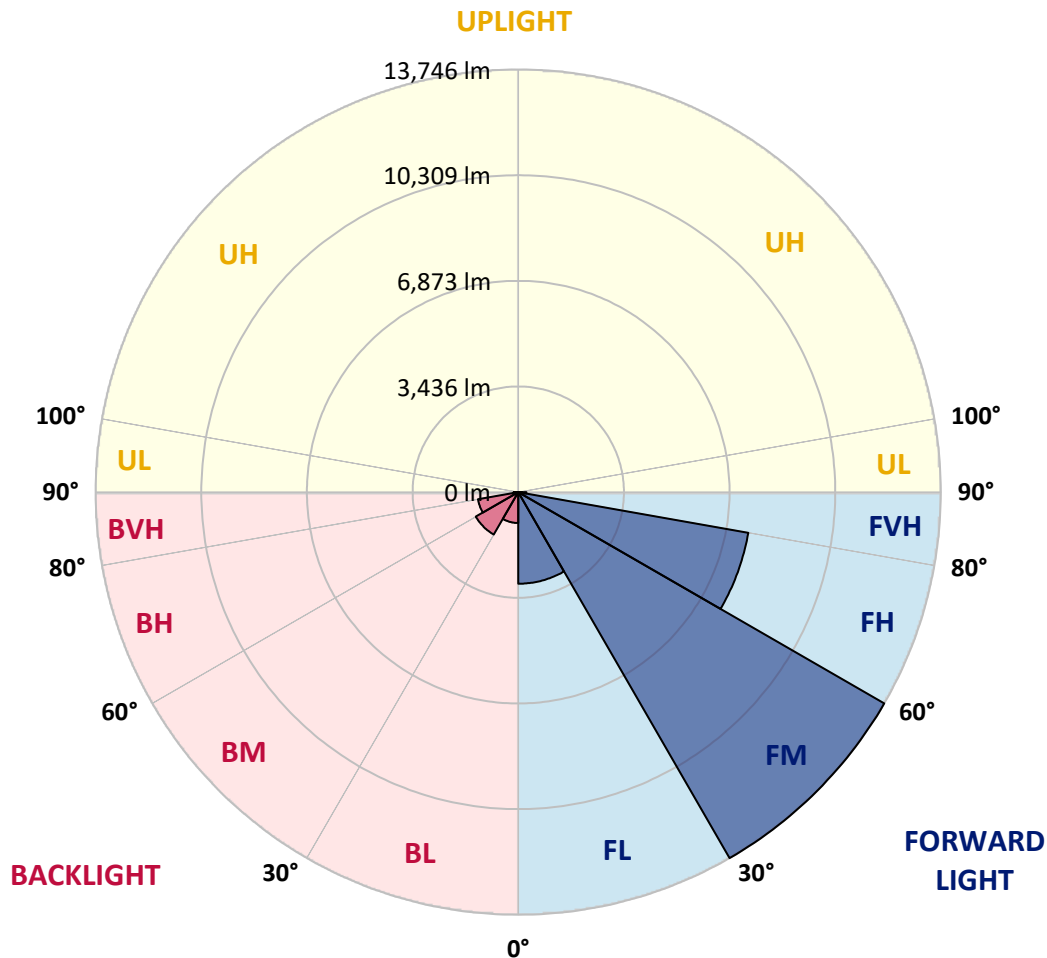
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2979.0	10.4			
FM (30°-60°)	13745.6	48.0			
FH (60°-80°)	7598.2	26.5			G4/12000
FVH (80°-90°)	262.1	0.9			G3/500
BL (0°-30°)	1004.1	3.5	B3/2500		
BM (30°-60°)	1593.4	5.6	B2/2500		
BH (60°-80°)	1330.7	4.6	B3/2500		G3/2500
BVH (80°-90°)	149.3	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-G4

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2933.2	2933.2	2933.2	2933.2	2933.2	2933.2	2933.2	2933.2	2933.2	2933.2	2933.2
2.5°	4069.8	4020.9	3971.9	3867.3	3831.4	3733.4	3553.8	3354.5	3191.2	3168.3	3054.0
5°	5049.7	4977.9	4961.6	4902.8	4716.6	4527.1	4233.2	3913.1	3514.6	3544.0	3152.0
7.5°	5784.7	5742.2	5654.0	5598.5	5487.4	5235.9	4932.2	4507.5	4001.3	3903.3	3370.9
10°	6339.9	6281.1	6277.9	6228.9	6170.1	5912.1	5680.1	5108.5	4458.5	4324.6	3638.7
12.5°	6620.8	6611.0	6784.2	6784.2	6761.3	6653.5	6255.0	5732.4	4893.0	4847.2	3949.0
15°	6924.6	6843.0	6993.2	7107.5	7166.3	7221.9	6892.0	6339.9	5448.2	5360.0	4282.2
17.5°	6924.6	6918.1	7068.3	7257.8	7564.8	7636.7	7457.0	6898.5	5908.8	5843.5	4648.0
20°	6807.0	6901.8	7006.3	7261.0	7594.2	7884.9	7937.2	7470.1	6418.3	6366.1	5062.8
22.5°	7355.8	7264.3	7372.1	7470.1	7728.1	8169.1	8312.8	7973.1	6954.0	6754.8	5438.4
25°	8276.9	8214.8	8136.4	7992.7	8100.5	8293.2	8512.1	8345.5	7411.3	7189.2	5801.0
27.5°	9175.1	9178.4	9008.5	8695.0	8463.1	8502.3	8760.3	8672.1	7796.7	7698.7	6049.2
30°	10452.3	10373.9	10184.4	9759.8	9305.8	8933.4	8890.9	8975.9	8286.7	8097.2	6405.3
32.5°	11409.3	11425.6	11157.8	10547.0	9926.4	9622.6	9250.2	9286.2	8597.0	8456.5	6689.4
35°	12183.4	12163.8	11974.4	11468.1	10733.2	10367.3	9864.3	9658.5	9318.8	9096.7	7123.9
37.5°	13019.6	12859.5	12552.5	11980.9	11510.5	11004.3	10514.3	10050.5	9799.0	9531.1	7496.2
40°	13356.0	13356.0	12944.5	12683.2	12124.6	11742.5	11425.6	10566.6	10383.7	10331.4	7973.1
42.5°	13117.6	13264.6	13094.7	12797.5	12568.8	12085.4	12000.5	11102.3	11105.5	11001.0	8544.7
45°	13094.7	12892.2	12751.7	12826.9	12719.1	12693.0	12908.5	11843.7	11863.3	11850.2	9312.3
47.5°	12438.2	12346.7	12555.8	12679.9	12768.1	13173.1	13793.7	12728.9	12869.3	12771.3	10197.5
50°	11784.9	11768.6	11899.2	12350.0	12732.1	13398.5	14636.4	14094.2	14554.8	14548.2	11801.2
52.5°	9995.0	10168.1	10680.9	11634.7	12578.6	13705.5	15273.4	15838.4	16717.1	16955.5	13130.6
55°	8283.4	8192.0	8949.7	10334.7	11909.0	13826.4	15985.4	16886.9	18180.4	18353.5	14496.0
57.5°	6444.5	6614.3	7212.1	8541.4	10524.1	13228.6	16508.0	17922.3	19833.1	19967.1	16080.1
60°	4808.0	4830.9	5487.4	6558.8	8681.9	11879.6	16677.9	18983.9	21727.6	22109.8	17739.4
62.5°	3024.6	3161.8	3661.6	4716.6	6535.9	9991.7	15916.8	19627.4	23713.5	23814.8	19411.8
65°	1629.9	1718.1	2093.7	2756.8	4566.3	7558.3	13898.2	19241.9	24647.7	25248.7	20156.5
67°	1205.3	1221.6	1394.7	1760.6	3054.0	5689.9	11588.9	17847.2	25072.3	25510.0	20185.9
67.5°	1130.1	1153.0	1290.2	1580.9	2707.8	5239.2	10984.7	17350.7	24882.9	25353.2	19957.3
70°	966.8	973.4	1006.0	1087.7	1518.8	3152.0	7479.9	14218.3	23063.5	23514.3	18353.5
72.5°	859.0	865.6	878.6	895.0	1028.9	1822.6	4550.0	10942.2	20045.5	20764.1	15835.2
75°	754.5	777.4	783.9	770.9	875.4	1185.7	2420.3	8041.7	16351.2	16700.7	12314.1
77.5°	640.2	650.0	663.1	676.1	780.7	885.2	1162.8	5428.6	11223.1	11010.8	6660.0
80°	538.9	542.2	552.0	561.8	676.1	676.1	659.8	2933.2	4902.8	4687.2	2250.5
82.5°	385.4	408.3	431.2	457.3	561.8	454.0	431.2	1306.5	1551.5	1476.4	761.1
85°	150.3	182.9	284.2	313.6	356.0	245.0	287.4	565.1	646.7	640.2	284.2
87.5°	26.1	29.4	78.4	120.9	130.7	84.9	137.2	202.5	241.7	261.3	104.5
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°	2933.2	2933.2	2933.2	2933.2	2933.2	2933.2	2933.2	2933.2	2933.2	2933.2	2933.2
2.5°	2959.3	2858.0	2737.2	2616.3	2537.9	2413.8	2404.0	2328.9	2319.1	2293.0	2306.0
5°	2982.2	2861.3	2616.3	2423.6	2335.4	2263.6	2279.9	2247.2	2237.4	2221.1	2195.0
7.5°	3161.8	2923.4	2557.5	2391.0	2325.6	2293.0	2293.0	2253.8	2224.4	2244.0	2263.6
10°	3279.4	2952.8	2603.3	2436.7	2384.4	2312.6	2338.7	2289.7	2306.0	2266.8	2266.8
12.5°	3468.8	3119.3	2698.0	2505.3	2420.3	2355.0	2381.2	2325.6	2312.6	2315.8	2306.0
15°	3723.6	3230.4	2740.4	2544.5	2485.7	2404.0	2384.4	2335.4	2286.4	2270.1	2289.7
17.5°	3962.1	3367.6	2769.8	2567.3	2472.6	2381.2	2358.3	2296.2	2279.9	2230.9	2191.7
20°	4246.2	3530.9	2809.0	2586.9	2423.6	2332.2	2273.4	2211.3	2155.8	2126.4	2139.4
22.5°	4435.7	3615.8	2828.6	2547.7	2351.8	2266.8	2142.7	2100.2	2021.9	1989.2	1963.1
25°	4746.0	3720.3	2779.6	2439.9	2224.4	2087.2	1976.1	1917.3	1861.8	1819.3	1806.3
27.5°	4824.4	3798.7	2665.3	2257.0	2021.9	1878.1	1783.4	1711.6	1675.6	1610.3	1597.2
30°	5053.0	3720.3	2495.5	2034.9	1829.1	1682.2	1587.4	1535.2	1450.2	1433.9	1398.0
32.5°	5200.0	3743.2	2279.9	1819.3	1607.0	1476.4	1414.3	1362.1	1339.2	1260.8	1241.2
35°	5445.0	3664.8	2061.1	1620.1	1424.1	1322.9	1270.6	1254.3	1179.1	1143.2	1110.6
37.5°	5601.8	3619.1	1842.2	1394.7	1224.9	1182.4	1198.7	1130.1	1038.7	970.1	947.2
40°	5876.1	3602.8	1594.0	1208.5	1087.7	1077.9	1130.1	999.5	832.9	774.1	741.5
42.5°	6271.4	3491.7	1401.3	1042.0	979.9	1022.4	1032.2	832.9	738.2	689.2	666.3
45°	6650.2	3514.6	1211.8	862.3	852.5	914.6	891.7	705.5	650.0	614.1	633.7
47.5°	7378.6	3628.9	1025.6	718.6	767.6	826.4	692.5	630.4	578.1	552.0	555.3
50°	8505.5	3739.9	862.3	656.5	725.1	748.0	594.5	571.6	568.3	516.1	512.8
52.5°	9181.6	3697.5	832.9	734.9	777.4	748.0	646.7	630.4	604.3	581.4	555.3
55°	10256.3	3821.6	895.0	859.0	881.9	718.6	725.1	718.6	699.0	640.2	656.5
57.5°	11112.0	3903.3	976.6	960.3	947.2	748.0	757.8	761.1	748.0	721.9	744.7
60°	12287.9	4066.6	1061.6	1064.8	1068.1	813.3	829.6	849.2	846.0	836.2	842.7
62.5°	13009.8	3991.5	1156.3	1208.5	1192.2	947.2	944.0	957.0	957.0	973.4	983.2
65°	12902.0	3713.8	1205.3	1335.9	1251.0	1045.2	1045.2	1051.8	1055.0	1087.7	1091.0
67°	12255.3	3217.3	1179.1	1355.5	1251.0	1084.4	1084.4	1091.0	1068.1	1153.0	1126.9
67.5°	11954.8	3070.3	1156.3	1339.2	1241.2	1081.2	1081.2	1084.4	1064.8	1146.5	1120.4
70°	10396.7	2279.9	996.2	1185.7	1149.7	1051.8	1051.8	1032.2	1015.8	1123.6	1100.8
72.5°	8874.6	1656.0	800.3	1009.3	1038.7	1012.6	1019.1	970.1	924.4	999.5	979.9
75°	6797.2	1218.3	623.9	777.4	878.6	947.2	989.7	865.6	806.8	826.4	790.5
77.5°	3792.2	793.7	493.2	574.9	669.6	881.9	950.5	780.7	659.8	636.9	636.9
80°	1286.9	463.8	362.6	427.9	460.6	780.7	888.4	633.7	519.3	496.5	480.2
82.5°	486.7	284.2	248.2	294.0	294.0	617.3	725.1	486.7	392.0	506.3	516.1
85°	222.1	169.8	163.3	169.8	169.8	378.9	512.8	316.8	352.8	303.8	267.8
87.5°	88.2	81.7	75.1	71.9	58.8	65.3	176.4	84.9	160.1	42.5	39.2
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)