

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: P476972

Luminaire Tested: **IFLD-L-SA7A-735-U-T2R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476972
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-735-U-T2R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens
Light Source: (112) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

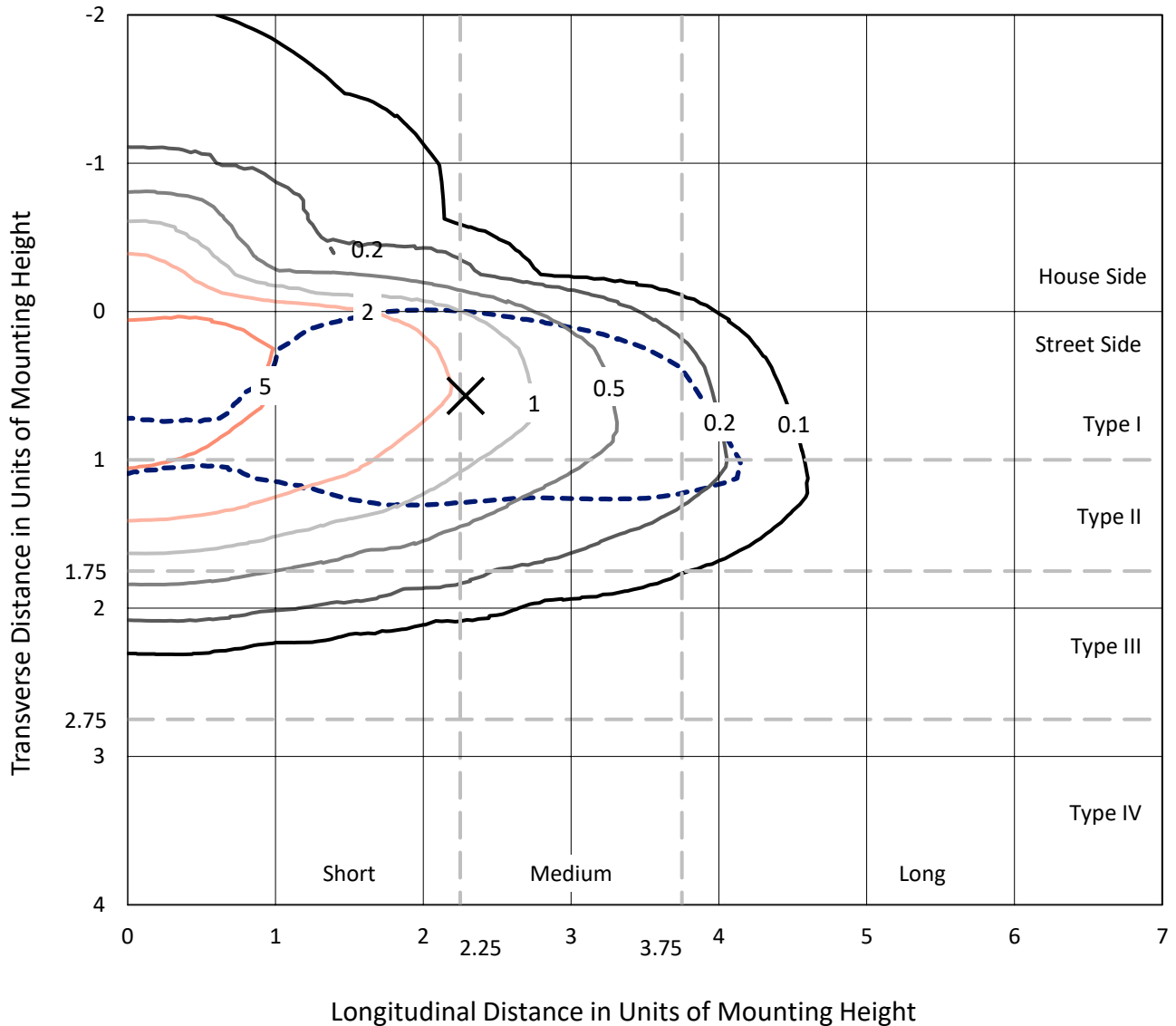
Lumens per Lamp: N/A
Luminaire Lumens: 31045.2 lumens
Efficiency: N/A
Efficacy: 142.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

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

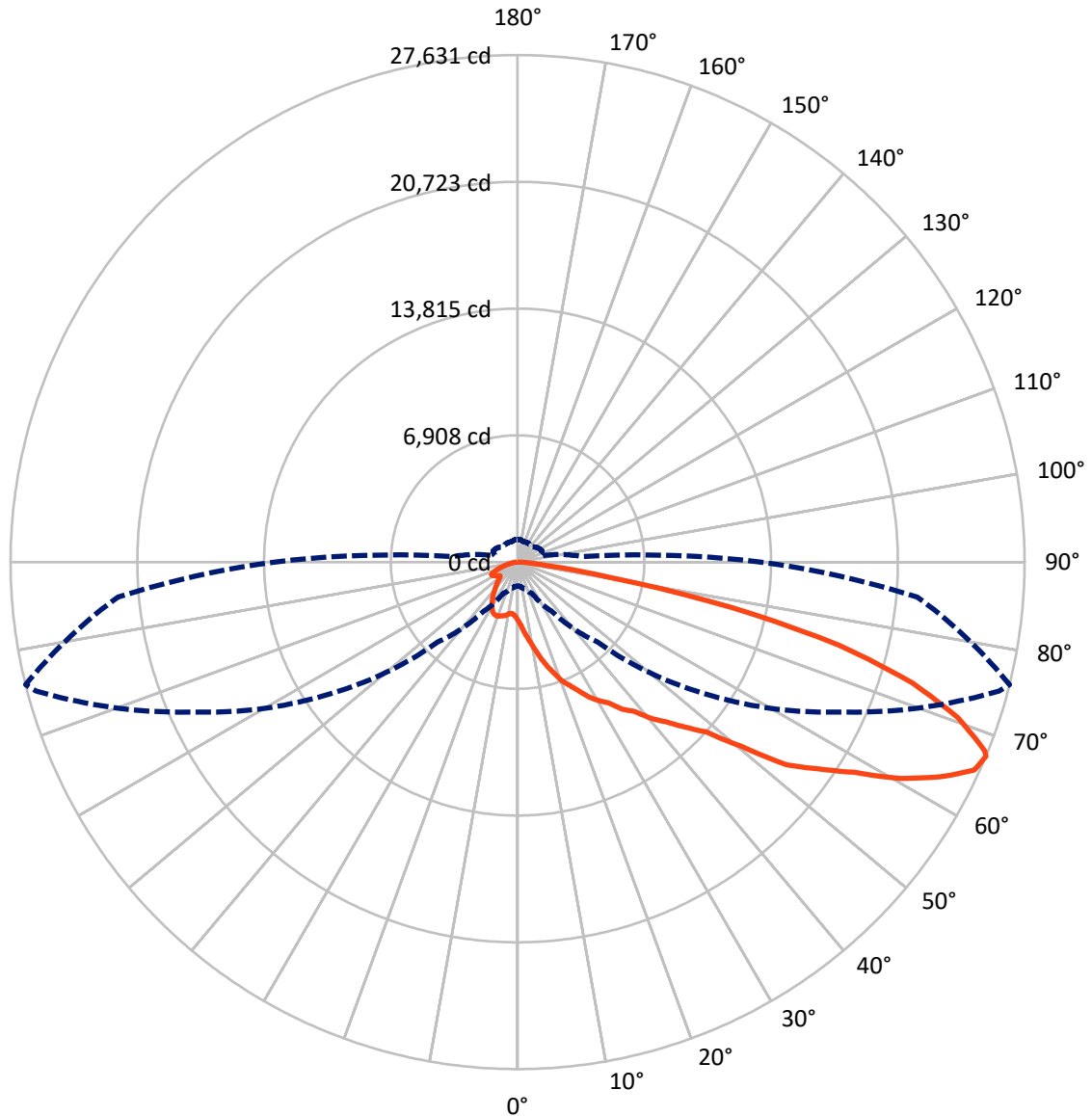
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.2 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	4416.6	0.0	4416.6
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	26628.6	0.0	26628.6
	% Fixture	85.8	0.0	85.8
Total	Lumens	31045.2	0.0	31045.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	368.0	1.2
10°-20°	1380.2	4.4
20°-30°	2566.0	8.3
30°-40°	4067.7	13.1
40°-50°	5626.1	18.1
50°-60°	6920.4	22.3
60°-70°	6439.8	20.7
70°-80°	3231.4	10.4
80°-90°	445.6	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°	31045.2	100.0
0°-180°	31045.2	100.0

Coefficient of Utilization



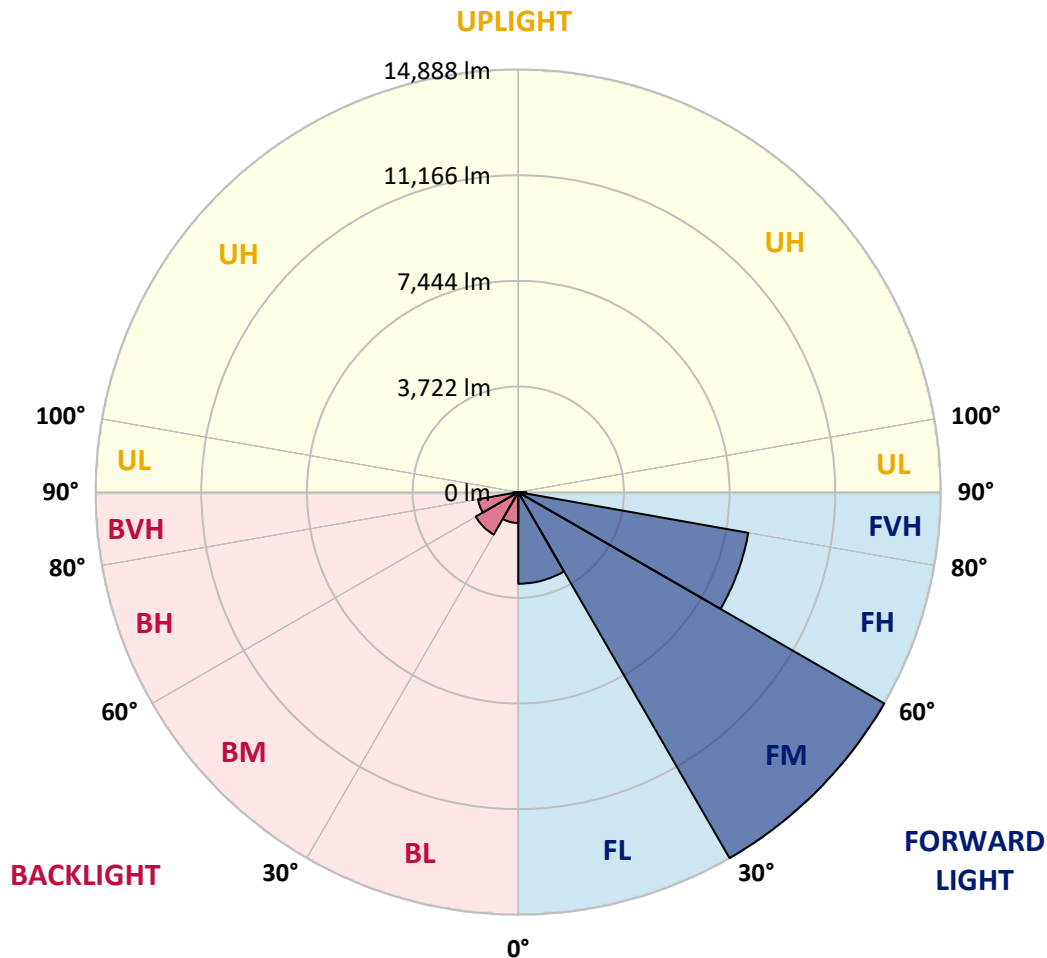
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3226.6	10.4			
FM (30°-60°)	14888.3	48.0			
FH (60°-80°)	8229.8	26.5			G4/12000
FVH (80°-90°)	283.9	0.9			G3/500
BL (0°-30°)	1087.6	3.5	B3/2500		
BM (30°-60°)	1725.9	5.6	B2/2500		
BH (60°-80°)	1441.3	4.6	B3/2500		G3/2500
BVH (80°-90°)	161.7	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°	3177.0	3177.0	3177.0	3177.0	3177.0	3177.0	3177.0	3177.0	3177.0	3177.0	3177.0
2.5°	4408.2	4355.1	4302.0	4188.8	4149.9	4043.8	3849.2	3633.4	3456.5	3431.7	3307.9
5°	5469.5	5391.7	5374.0	5310.3	5108.7	4903.5	4585.1	4238.4	3806.7	3838.6	3414.0
7.5°	6265.6	6219.6	6124.0	6063.9	5943.6	5671.2	5342.2	4882.3	4333.9	4227.7	3651.1
10°	6867.0	6803.3	6799.8	6746.7	6683.0	6403.5	6152.3	5533.2	4829.2	4684.1	3941.2
12.5°	7171.3	7160.6	7348.1	7348.1	7323.4	7206.6	6775.0	6209.0	5299.7	5250.2	4277.3
15°	7500.3	7411.8	7574.6	7698.4	7762.1	7822.2	7464.9	6867.0	5901.2	5805.6	4638.1
17.5°	7500.3	7493.2	7655.9	7861.1	8193.7	8271.5	8076.9	7472.0	6400.0	6329.2	5034.4
20°	7372.9	7475.5	7588.7	7864.7	8225.5	8540.4	8597.0	8091.1	6951.9	6895.3	5483.7
22.5°	7967.3	7868.2	7985.0	8091.1	8370.6	8848.2	9003.9	8635.9	7532.1	7316.3	5890.5
25°	8964.9	8897.7	8812.8	8657.2	8773.9	8982.6	9219.7	9039.2	8027.4	7786.8	6283.2
27.5°	9937.9	9941.4	9757.4	9417.8	9166.6	9209.1	9488.6	9393.0	8444.9	8338.7	6552.1
30°	11321.2	11236.3	11031.1	10571.1	10079.4	9676.1	9630.1	9722.1	8975.6	8770.4	6937.8
32.5°	12357.8	12375.5	12085.3	11423.8	10751.6	10422.6	10019.2	10058.1	9311.7	9159.5	7245.5
35°	13196.2	13175.0	12969.8	12421.4	11625.4	11229.2	10684.4	10461.5	10093.5	9853.0	7716.1
37.5°	14101.9	13928.6	13596.0	12976.9	12467.4	11919.1	11388.4	10886.0	10613.6	10323.5	8119.4
40°	14466.3	14466.3	14020.6	13737.5	13132.6	12718.6	12375.5	11445.0	11246.9	11190.3	8635.9
42.5°	14208.1	14367.3	14183.3	13861.4	13613.7	13090.1	12998.1	12025.2	12028.7	11915.5	9255.1
45°	14183.3	13964.0	13811.8	13893.2	13776.4	13748.1	13981.6	12828.3	12849.5	12835.4	10086.5
47.5°	13472.2	13373.1	13599.6	13734.0	13829.5	14268.2	14940.4	13787.1	13939.2	13833.1	11045.2
50°	12764.6	12746.9	12888.4	13376.7	13790.6	14512.3	15853.2	15265.9	15764.7	15757.7	12782.3
52.5°	10825.9	11013.4	11568.8	12601.9	13624.3	14844.9	16543.1	17155.1	18106.8	18365.1	14222.2
55°	8972.0	8873.0	9693.7	11193.8	12899.1	14975.8	17314.3	18290.8	19691.8	19879.3	15701.0
57.5°	6980.2	7164.2	7811.6	9251.5	11399.0	14328.4	17880.4	19412.3	21481.9	21627.0	17416.9
60°	5207.7	5232.5	5943.6	7104.0	9403.6	12867.2	18064.3	20562.1	23533.9	23947.8	19214.1
62.5°	3276.1	3424.7	3965.9	5108.7	7079.3	10822.3	17240.0	21259.0	25684.9	25794.6	21025.5
65°	1765.4	1860.9	2267.8	2986.0	4945.9	8186.6	15053.6	20841.6	26696.7	27347.7	21832.2
67°	1305.5	1323.2	1510.7	1906.9	3307.9	6163.0	12552.3	19330.9	27156.7	27630.7	21864.0
67.5°	1224.1	1248.9	1397.5	1712.3	2932.9	5674.7	11897.8	18793.1	26951.5	27460.9	21616.4
70°	1047.2	1054.3	1089.7	1178.1	1645.1	3414.0	8101.7	15400.3	24980.9	25469.1	19879.3
72.5°	930.5	937.5	951.7	969.4	1114.4	1974.1	4928.2	11851.8	21711.9	22490.2	17151.6
75°	817.2	842.0	849.1	834.9	948.1	1284.2	2621.6	8710.2	17710.6	18089.1	13337.8
77.5°	693.4	704.0	718.2	732.3	845.5	958.8	1259.5	5879.9	12156.1	11926.1	7213.7
80°	583.7	587.3	597.9	608.5	732.3	732.3	714.6	3177.0	5310.3	5076.8	2437.6
82.5°	417.5	442.2	467.0	495.3	608.5	491.8	467.0	1415.1	1680.5	1599.1	824.3
85°	162.7	198.1	307.8	339.6	385.6	265.3	311.3	612.1	700.5	693.4	307.8
87.5°	28.3	31.8	84.9	130.9	141.5	92.0	148.6	219.3	261.8	283.0	113.2
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°	3177.0	3177.0	3177.0	3177.0	3177.0	3177.0	3177.0	3177.0	3177.0	3177.0	3177.0
2.5°	3205.3	3095.6	2964.7	2833.8	2748.9	2614.5	2603.9	2522.5	2511.9	2483.6	2497.7
5°	3230.1	3099.2	2833.8	2625.1	2529.6	2451.7	2469.4	2434.1	2423.4	2405.7	2377.4
7.5°	3424.7	3166.4	2770.1	2589.7	2519.0	2483.6	2483.6	2441.1	2409.3	2430.5	2451.7
10°	3552.0	3198.2	2819.7	2639.2	2582.6	2504.8	2533.1	2480.0	2497.7	2455.3	2455.3
12.5°	3757.2	3378.7	2922.3	2713.5	2621.6	2550.8	2579.1	2519.0	2504.8	2508.3	2497.7
15°	4033.2	3498.9	2968.3	2756.0	2692.3	2603.9	2582.6	2529.6	2476.5	2458.8	2480.0
17.5°	4291.4	3647.5	3000.1	2780.8	2678.2	2579.1	2554.3	2487.1	2469.4	2416.4	2373.9
20°	4599.2	3824.4	3042.6	2802.0	2625.1	2526.0	2462.4	2395.1	2335.0	2303.2	2317.3
22.5°	4804.4	3916.4	3063.8	2759.5	2547.3	2455.3	2320.8	2274.8	2189.9	2154.6	2126.3
25°	5140.5	4029.6	3010.7	2642.8	2409.3	2260.7	2140.4	2076.7	2016.6	1970.6	1956.4
27.5°	5225.4	4114.5	2886.9	2444.7	2189.9	2034.3	1931.7	1853.8	1814.9	1744.2	1730.0
30°	5473.1	4029.6	2702.9	2204.1	1981.2	1822.0	1719.4	1662.8	1570.8	1553.1	1514.2
32.5°	5632.3	4054.4	2469.4	1970.6	1740.6	1599.1	1531.9	1475.3	1450.5	1365.6	1344.4
35°	5897.6	3969.5	2232.4	1754.8	1542.5	1432.8	1376.2	1358.5	1277.2	1238.3	1202.9
37.5°	6067.4	3920.0	1995.4	1510.7	1326.7	1280.7	1298.4	1224.1	1125.0	1050.7	1026.0
40°	6364.6	3902.3	1726.5	1309.0	1178.1	1167.5	1224.1	1082.6	902.2	838.5	803.1
42.5°	6792.7	3782.0	1517.7	1128.6	1061.4	1107.4	1118.0	902.2	799.6	746.5	721.7
45°	7203.1	3806.7	1312.5	934.0	923.4	990.6	965.8	764.2	704.0	665.1	686.3
47.5°	7992.0	3930.6	1110.9	778.3	831.4	895.1	750.0	682.8	626.2	597.9	601.4
50°	9212.6	4050.9	934.0	711.1	785.4	810.2	643.9	619.1	615.6	559.0	555.4
52.5°	9944.9	4004.9	902.2	796.0	842.0	810.2	700.5	682.8	654.5	629.7	601.4
55°	11108.9	4139.3	969.4	930.5	955.2	778.3	785.4	778.3	757.1	693.4	711.1
57.5°	12035.8	4227.7	1057.8	1040.1	1026.0	810.2	820.8	824.3	810.2	781.9	806.6
60°	13309.4	4404.6	1149.8	1153.3	1156.9	880.9	898.6	919.8	916.3	905.7	912.8
62.5°	14091.3	4323.3	1252.4	1309.0	1291.3	1026.0	1022.4	1036.6	1036.6	1054.3	1064.9
65°	13974.6	4022.6	1305.5	1447.0	1355.0	1132.1	1132.1	1139.2	1142.7	1178.1	1181.6
67°	13274.1	3484.8	1277.2	1468.2	1355.0	1174.6	1174.6	1181.6	1156.9	1248.9	1220.6
67.5°	12948.6	3325.6	1252.4	1450.5	1344.4	1171.0	1171.0	1174.6	1153.3	1241.8	1213.5
70°	11261.0	2469.4	1079.0	1284.2	1245.3	1139.2	1139.2	1118.0	1100.3	1217.0	1192.3
72.5°	9612.4	1793.7	866.8	1093.2	1125.0	1096.7	1103.8	1050.7	1001.2	1082.6	1061.4
75°	7362.3	1319.6	675.7	842.0	951.7	1026.0	1072.0	937.5	873.9	895.1	856.2
77.5°	4107.5	859.7	534.2	622.7	725.3	955.2	1029.5	845.5	714.6	689.9	689.9
80°	1393.9	502.4	392.7	463.5	498.8	845.5	962.3	686.3	562.5	537.8	520.1
82.5°	527.1	307.8	268.9	318.4	318.4	668.7	785.4	527.1	424.5	548.4	559.0
85°	240.6	184.0	176.9	184.0	184.0	410.4	555.4	343.2	382.1	329.0	290.1
87.5°	95.5	88.4	81.4	77.8	63.7	70.8	191.0	92.0	173.4	46.0	42.5
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)