

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: P476521

Luminaire Tested: **IFLD-S-SA3D-730-U-T2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476521
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-730-U-T2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens
Light Source: (48) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

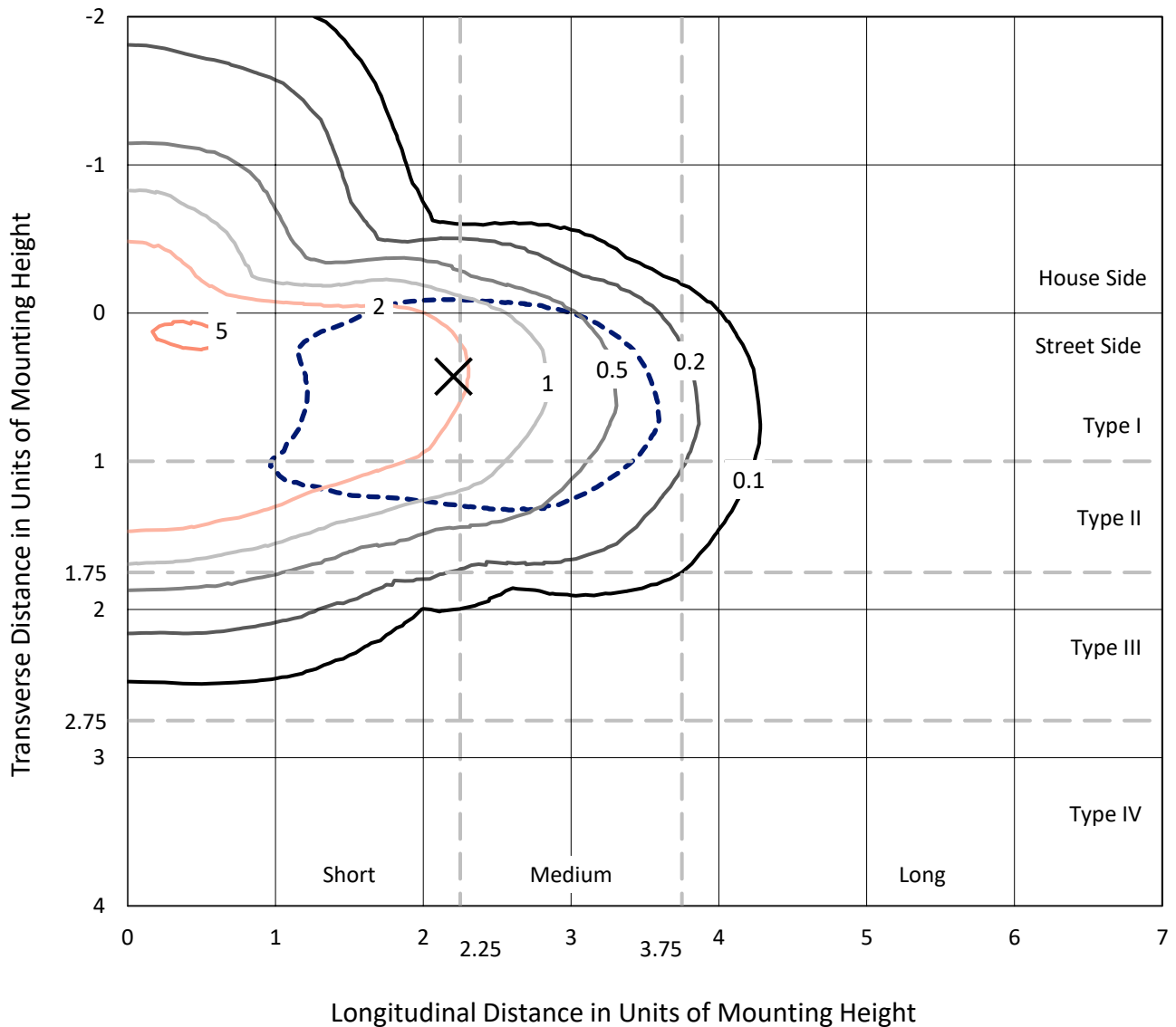
Lumens per Lamp: N/A
Luminaire Lumens: 21197.8 lumens
Efficiency: N/A
Efficacy: 115.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 184.1
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

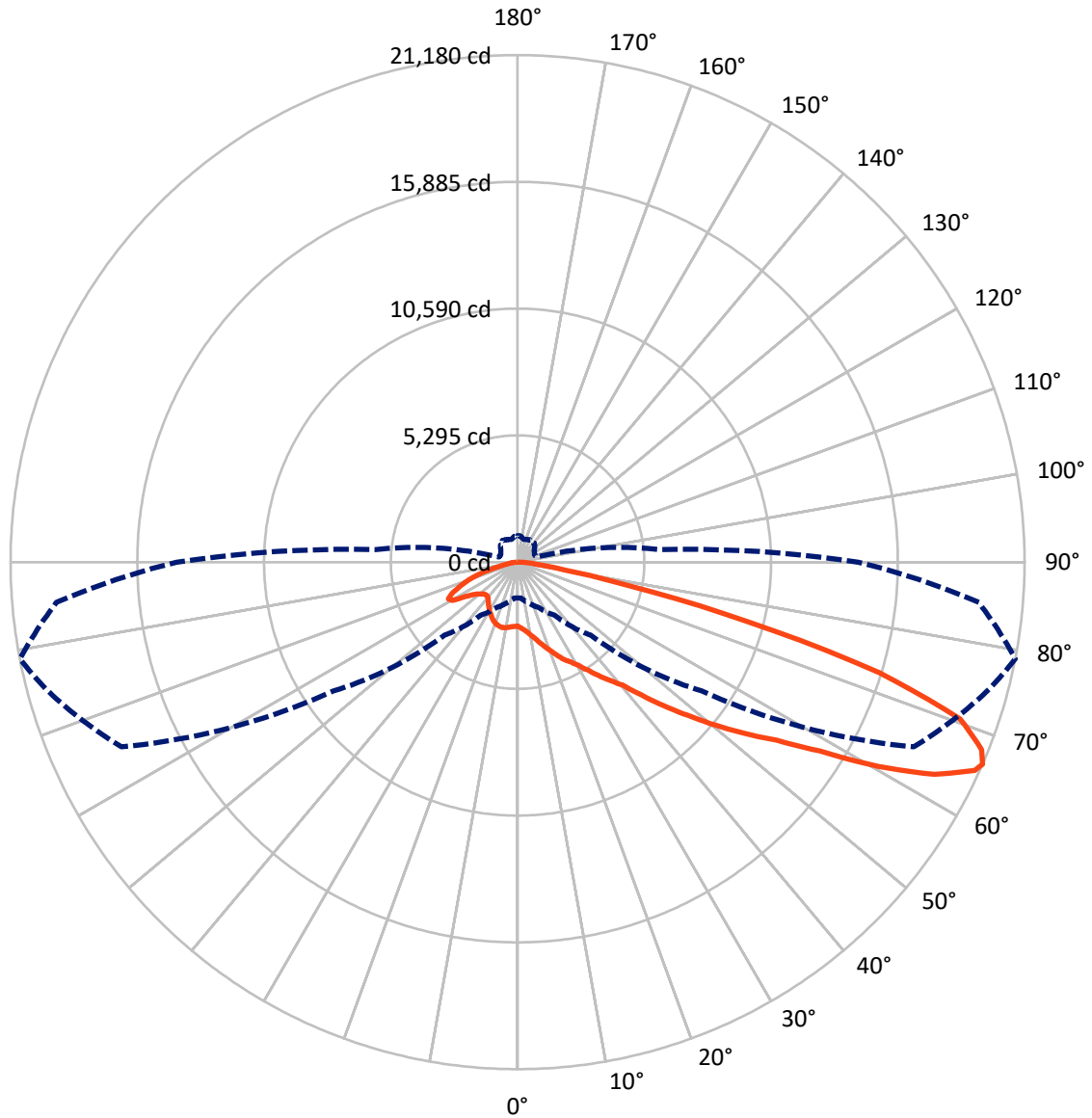
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4280.6	0.0	4280.6
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	16917.2	0.0	16917.2
	% Fixture	79.8	0.0	79.8
Total	Lumens	21197.8	0.0	21197.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	263.2	1.2
10°-20°	812.7	3.8
20°-30°	1395.1	6.6
30°-40°	2155.1	10.2
40°-50°	3452.0	16.3
50°-60°	5154.1	24.3
60°-70°	5295.8	25.0
70°-80°	2347.6	11.1
80°-90°	322.1	1.5
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°	21197.8	100.0
0°-180°	21197.8	100.0

Coefficient of Utilization



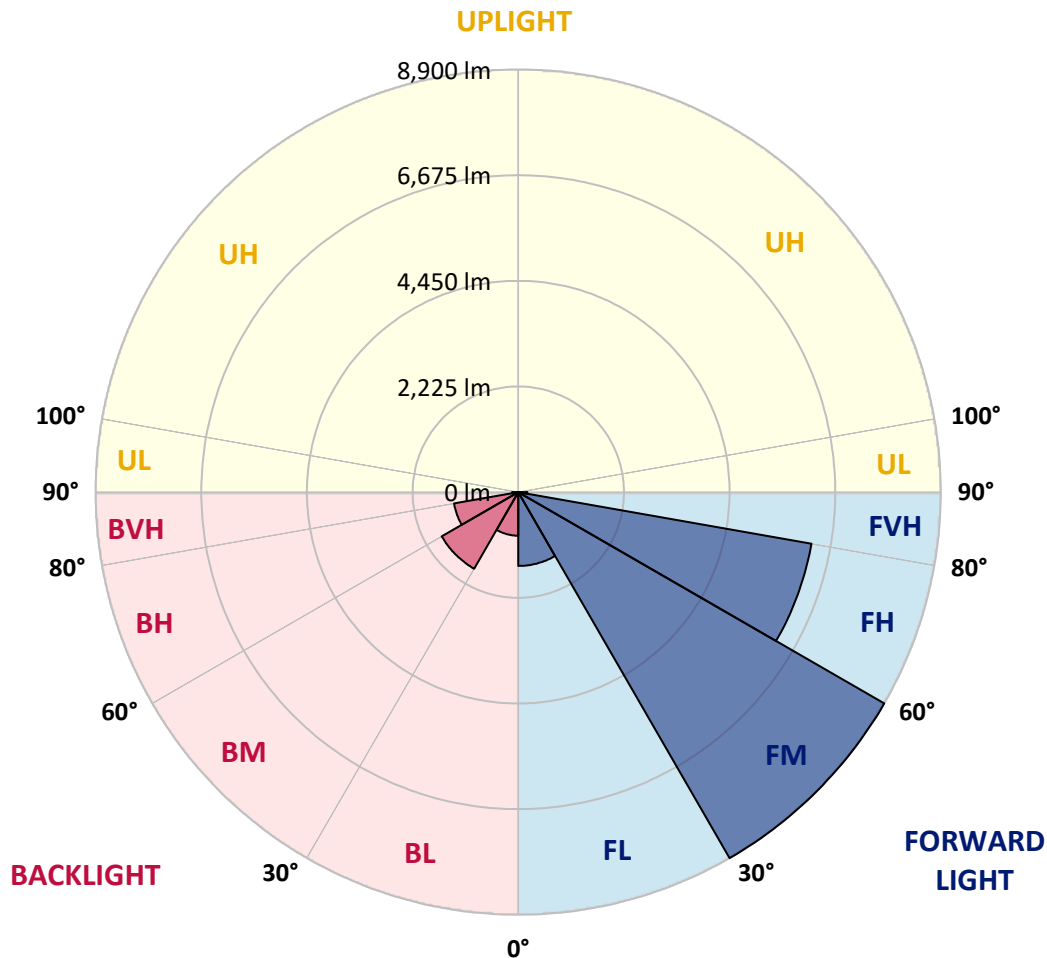
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1553.9	7.3			
FM (30°-60°)	8900.2	42.0			
FH (60°-80°)	6269.8	29.6			G3/7500
FVH (80°-90°)	193.2	0.9			G2/225
BL (0°-30°)	917.1	4.3	B2/1000		
BM (30°-60°)	1861.0	8.8	B2/2500		
BH (60°-80°)	1373.6	6.5	B3/2500		G3/2500
BVH (80°-90°)	128.9	0.6			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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	2676.7	2676.7	2676.7	2676.7	2676.7	2676.7	2676.7	2676.7	2676.7	2676.7	2676.7
2.5°	2846.9	2849.2	2849.2	2839.9	2842.2	2849.2	2823.6	2767.6	2767.6	2758.3	2742.0
5°	3021.8	3010.1	2993.8	2996.1	2986.8	2986.8	2958.8	2905.2	2858.6	2839.9	2790.9
7.5°	3045.1	3056.7	3054.4	3082.4	3096.4	3096.4	3110.4	3066.1	2996.1	2951.8	2902.9
10°	3091.7	3061.4	3059.1	3124.4	3145.3	3194.3	3250.3	3226.9	3168.7	3105.7	3040.4
12.5°	3119.7	3138.3	3138.3	3171.0	3220.0	3292.2	3390.2	3434.5	3343.5	3278.2	3178.0
15°	3161.7	3136.0	3210.6	3238.6	3331.9	3383.2	3523.1	3637.3	3576.7	3497.4	3338.9
17.5°	3180.3	3164.0	3206.0	3257.3	3415.8	3492.8	3663.0	3821.5	3770.2	3718.9	3555.7
20°	3275.9	3273.6	3292.2	3334.2	3448.5	3600.0	3812.2	4031.4	4050.0	3956.7	3735.2
22.5°	3509.1	3478.8	3478.8	3462.4	3511.4	3667.6	3954.4	4257.5	4341.5	4231.9	3938.1
25°	3723.6	3765.5	3739.9	3665.3	3646.6	3728.2	4057.0	4497.7	4609.6	4507.0	4213.2
27.5°	3998.7	4012.7	4057.0	3956.7	3828.5	3854.2	4168.9	4632.9	4863.7	4726.2	4369.4
30°	4395.1	4369.4	4360.1	4248.2	4080.3	4045.3	4297.2	4831.1	5197.2	5003.6	4553.6
32.5°	4663.2	4726.2	4723.8	4570.0	4367.1	4290.2	4455.7	5017.6	5553.9	5374.4	4894.0
35°	5194.8	5260.1	5208.8	4982.6	4744.8	4590.9	4684.2	5260.1	5961.9	5822.0	5183.2
37.5°	5873.3	6027.2	5917.6	5500.3	5164.5	4996.6	5001.3	5523.6	6379.3	6265.0	5493.3
40°	6342.0	6549.5	6397.9	6006.2	5649.5	5490.9	5428.0	5836.0	6878.2	6757.0	5978.2
42.5°	6922.5	7095.1	7015.8	6628.8	6211.4	6076.2	5950.3	6358.3	7640.7	7584.7	6600.8
45°	7556.7	7638.4	7612.7	7367.9	6903.9	6857.3	6579.8	7046.1	8538.4	8561.7	7379.5
47.5°	8146.6	8190.9	8239.9	8062.7	7773.6	7813.2	7304.9	7782.9	9410.4	9564.3	8246.9
50°	8298.2	8449.8	8564.0	8682.9	8745.9	9014.0	8104.7	8687.6	10413.0	10711.4	9212.2
52.5°	8144.3	8132.7	8480.1	8853.1	9482.7	10044.6	9193.5	9811.4	11299.0	11888.9	10095.9
55°	7444.8	7421.5	7981.1	8475.4	9704.2	10618.1	10748.7	11308.3	12369.2	13136.3	11292.0
57.5°	6220.7	6076.2	6687.1	7498.5	9223.8	10681.1	12310.9	13530.3	14015.3	14889.7	13117.6
60°	4180.6	4120.0	4705.2	5672.8	7489.1	9788.1	13245.9	16311.9	16335.3	17319.2	15950.5
62.5°	2574.1	2585.8	2961.1	3686.3	5243.8	7759.6	12842.5	18534.0	18538.6	19524.9	18282.2
65°	1683.4	1690.4	1993.5	2394.6	3275.9	5262.4	10620.5	18708.8	20070.5	20986.8	19350.0
66°	1499.2	1501.6	1762.7	2089.1	2714.0	4306.5	9380.1	18254.2	20415.6	21180.3	19336.0
67.5°	1263.7	1294.0	1503.9	1755.7	2117.1	3094.0	7442.5	16939.1	20238.4	20909.9	18897.7
70°	988.6	1004.9	1170.5	1426.9	1587.8	1790.7	4423.1	13807.8	18524.6	19613.5	17302.9
72.5°	792.7	806.7	932.6	1158.8	1289.4	1179.8	2408.6	10018.9	14633.2	15794.3	13609.6
75°	669.2	671.5	732.1	911.7	1060.9	886.0	1282.4	6430.6	9389.4	9930.3	8337.8
77.5°	540.9	550.3	592.2	694.8	853.4	697.2	764.8	3602.3	4714.5	4754.2	3854.2
80°	440.7	445.3	471.0	506.0	650.5	515.3	517.6	1758.0	2021.5	1974.9	1566.8
82.5°	347.4	352.1	382.4	375.4	478.0	368.4	321.8	846.4	930.3	911.7	720.5
85°	195.9	195.9	300.8	300.8	303.1	233.2	195.9	398.7	492.0	459.3	338.1
87.5°	63.0	65.3	90.9	95.6	151.6	104.9	95.6	149.2	233.2	205.2	121.2
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°	2676.7	2676.7	2676.7	2676.7	2676.7	2676.7	2676.7	2676.7	2676.7	2676.7	2676.7
2.5°	2732.6	2695.3	2679.0	2625.4	2611.4	2576.4	2560.1	2539.1	2532.1	2501.8	2529.8
5°	2753.6	2742.0	2676.7	2609.1	2557.8	2534.5	2499.5	2452.9	2448.2	2406.2	2401.6
7.5°	2842.2	2802.6	2688.3	2616.1	2513.5	2455.2	2378.2	2354.9	2324.6	2310.6	2340.9
10°	2979.8	2879.5	2709.3	2527.5	2401.6	2331.6	2275.7	2259.3	2261.7	2252.3	2238.3
12.5°	3077.7	2982.1	2674.4	2452.9	2289.6	2222.0	2217.4	2233.7	2259.3	2247.7	2264.0
15°	3217.6	3038.1	2648.7	2329.3	2198.7	2180.1	2177.7	2226.7	2224.4	2224.4	2222.0
17.5°	3348.2	3094.0	2555.4	2222.0	2103.1	2117.1	2133.4	2131.1	2154.4	2163.7	2180.1
20°	3513.7	3159.3	2424.9	2114.8	2030.8	2026.2	2023.8	2026.2	2049.5	2063.5	2051.8
22.5°	3658.3	3173.3	2315.3	2012.2	1944.6	1925.9	1895.6	1925.9	1914.3	1918.9	1932.9
25°	3784.2	3175.7	2159.1	1935.2	1858.3	1816.3	1793.0	1790.7	1769.7	1767.4	1767.4
27.5°	3889.1	3096.4	2021.5	1828.0	1755.7	1716.1	1713.7	1688.1	1634.5	1599.5	1604.1
30°	3970.7	3035.8	1925.9	1734.7	1664.8	1657.8	1636.8	1578.5	1508.6	1464.3	1464.3
32.5°	4115.3	2914.5	1795.3	1639.1	1604.1	1594.8	1545.9	1494.6	1429.3	1387.3	1380.3
35°	4222.5	2802.6	1709.1	1557.5	1541.2	1522.5	1480.6	1424.6	1406.0	1396.6	1403.6
37.5°	4343.8	2676.7	1604.1	1487.6	1503.9	1468.9	1420.0	1394.3	1459.6	1443.3	1450.3
40°	4537.3	2588.1	1501.6	1445.6	1461.9	1422.3	1359.3	1350.0	1431.6	1373.3	1359.3
42.5°	4891.7	2585.8	1438.6	1382.6	1394.3	1364.0	1308.0	1303.4	1336.0	1266.1	1245.1
45°	5332.4	2667.4	1392.0	1336.0	1326.7	1322.0	1303.4	1282.4	1254.4	1163.5	1140.2
47.5°	5859.3	2800.3	1382.6	1266.1	1277.7	1317.4	1294.0	1240.4	1168.1	1109.8	1098.2
50°	6498.2	3075.4	1359.3	1214.8	1235.8	1298.7	1280.1	1205.4	1140.2	1102.9	1095.9
52.5°	7204.7	3422.8	1329.0	1135.5	1182.1	1282.4	1291.7	1221.8	1126.2	1093.5	1088.9
55°	8037.1	3935.8	1294.0	1049.2	1119.2	1266.1	1291.7	1175.1	1107.5	1107.5	1102.9
57.5°	9680.8	4859.1	1221.8	969.9	1063.2	1235.8	1254.4	1177.5	1109.8	1109.8	1100.5
60°	12091.7	6300.0	1084.2	909.3	1009.6	1193.8	1226.4	1142.5	1084.2	1098.2	1095.9
62.5°	13978.0	6738.4	967.6	851.0	956.0	1116.8	1189.1	1105.2	1053.9	1105.2	1109.8
65°	14381.4	6295.3	848.7	788.1	881.3	1042.2	1135.5	1051.6	1009.6	1109.8	1114.5
66°	14236.8	5950.3	806.7	769.4	848.7	1004.9	1102.9	1032.9	986.3	1105.2	1107.5
67.5°	13593.3	5432.7	760.1	729.8	804.4	951.3	1065.5	1007.3	949.0	1091.2	1070.2
70°	12194.3	4607.3	680.8	659.8	741.5	862.7	979.3	942.0	890.7	1004.9	967.6
72.5°	9391.7	3681.6	596.9	599.2	669.2	771.8	893.0	867.4	823.1	881.3	858.0
75°	5719.4	2352.6	519.9	524.6	582.9	685.5	811.4	792.7	739.1	771.8	760.1
77.5°	2534.5	1165.8	438.3	447.7	494.3	603.9	706.5	676.2	620.2	627.2	622.5
80°	983.9	552.6	356.7	368.4	398.7	482.6	585.2	557.3	508.3	499.0	494.3
82.5°	473.3	307.8	275.1	279.8	291.5	384.7	503.6	468.7	403.4	361.4	361.4
85°	237.8	191.2	193.5	177.2	193.5	261.1	340.4	284.5	235.5	209.8	214.5
87.5°	95.6	95.6	95.6	81.6	86.3	123.6	158.5	107.3	97.9	58.3	58.3
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)