

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: P476543

Luminaire Tested: **IFLD-L-SA7A-730-U-T2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476543
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-T2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens
Light Source: (112) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

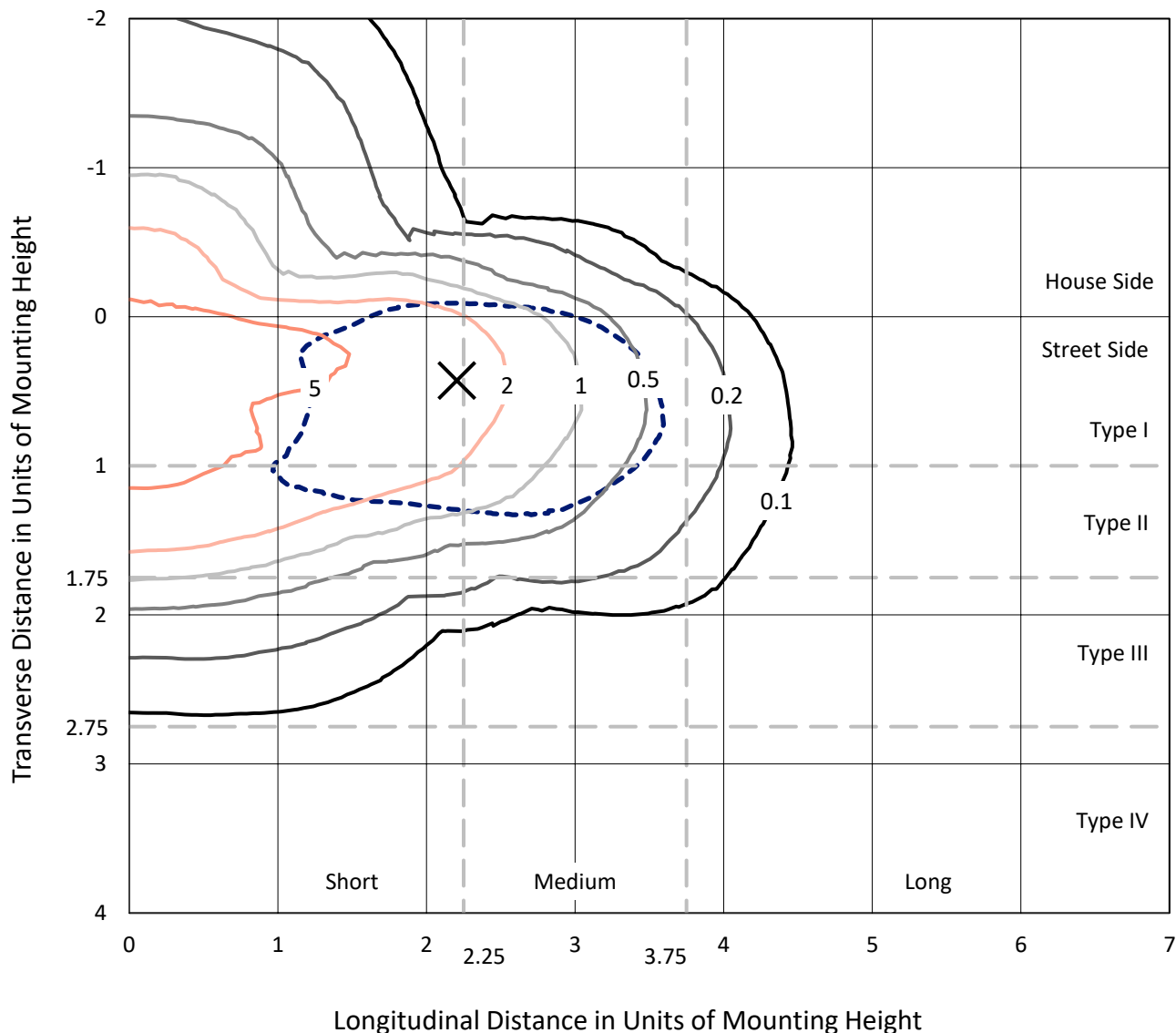
Lumens per Lamp: N/A
Luminaire Lumens: 28467.9 lumens
Efficiency: N/A
Efficacy: 130.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

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

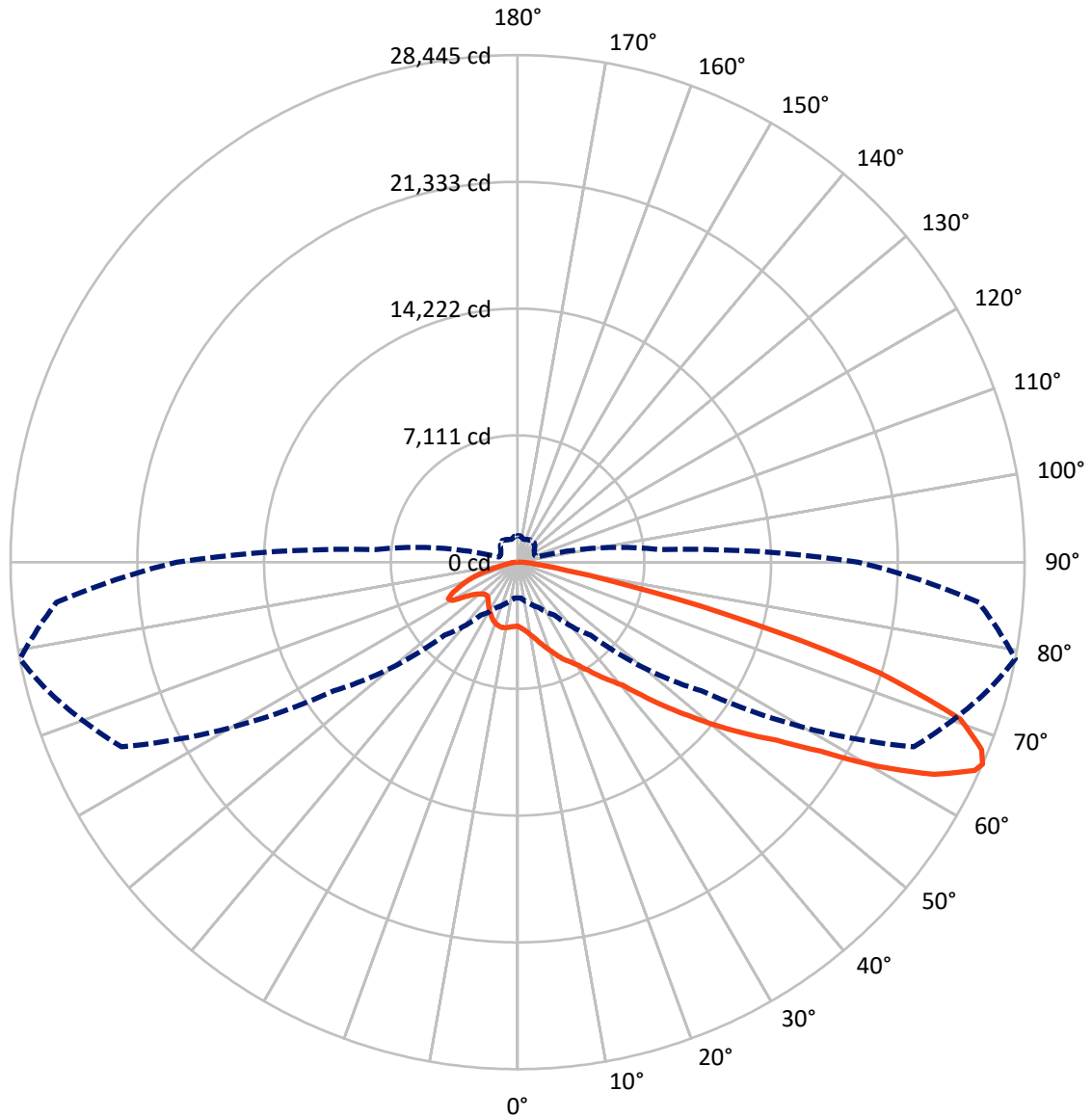
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 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	5748.7	0.0	5748.7
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	22719.2	0.0	22719.2
	% Fixture	79.8	0.0	79.8
Total	Lumens	28467.9	0.0	28467.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	353.5	1.2
10°-20°	1091.5	3.8
20°-30°	1873.6	6.6
30°-40°	2894.3	10.2
40°-50°	4635.9	16.3
50°-60°	6921.8	24.3
60°-70°	7112.1	25.0
70°-80°	3152.7	11.1
80°-90°	432.6	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°	28467.9	100.0
0°-180°	28467.9	100.0

Coefficient of Utilization



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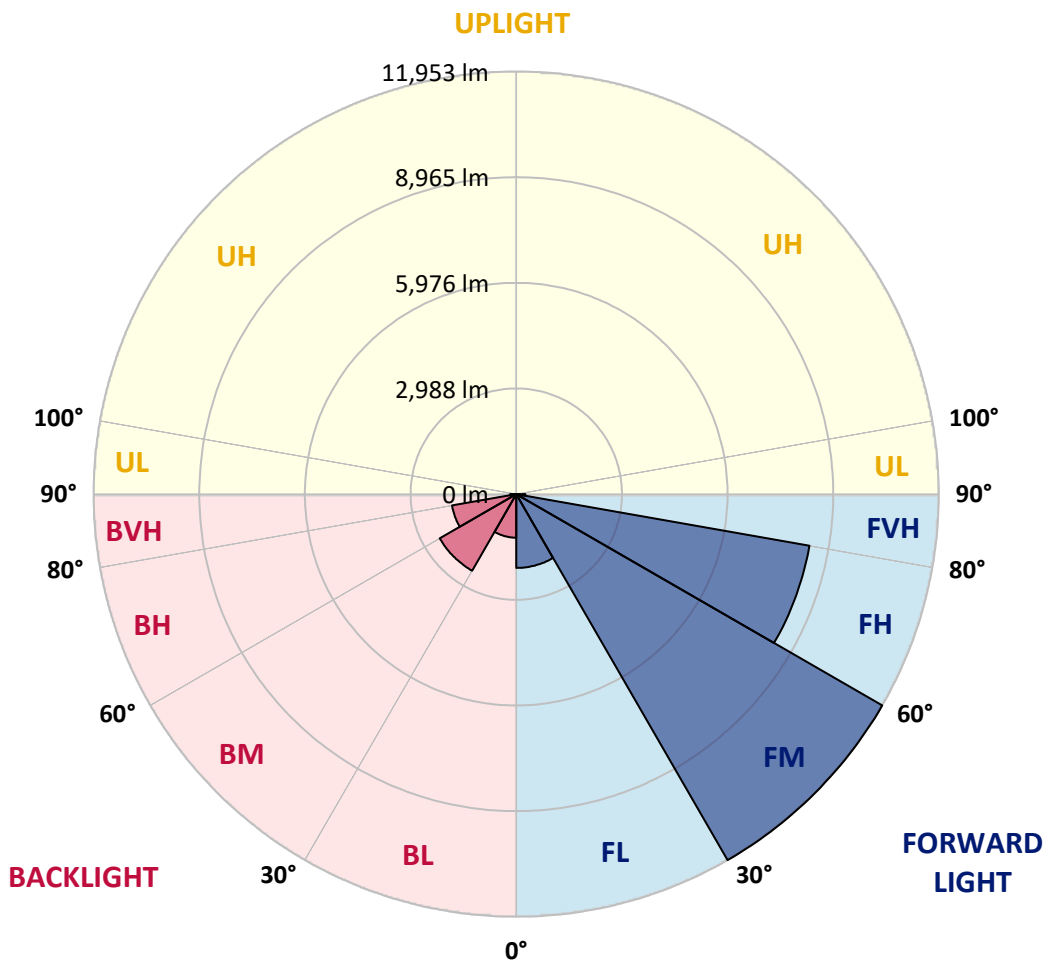
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2086.9	7.3			
FM (30°-60°)	11952.7	42.0			
FH (60°-80°)	8420.2	29.6			G4/12000
FVH (80°-90°)	259.4	0.9			G3/500
BL (0°-30°)	1231.6	4.3	B3/2500		
BM (30°-60°)	2499.3	8.8	B2/2500		
BH (60°-80°)	1844.6	6.5	B3/2500		G3/2500
BVH (80°-90°)	173.1	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-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	3594.7	3594.7	3594.7	3594.7	3594.7	3594.7	3594.7	3594.7	3594.7	3594.7	3594.7
2.5°	3823.3	3826.4	3826.4	3813.9	3817.0	3826.4	3792.0	3716.8	3716.8	3704.3	3682.4
5°	4058.1	4042.5	4020.6	4023.7	4011.2	4011.2	3973.6	3901.6	3838.9	3813.9	3748.1
7.5°	4089.4	4105.1	4102.0	4139.5	4158.3	4158.3	4177.1	4117.6	4023.7	3964.2	3898.4
10°	4152.1	4111.4	4108.2	4195.9	4224.1	4289.8	4365.0	4333.7	4255.4	4170.9	4083.2
12.5°	4189.6	4214.7	4214.7	4258.5	4324.3	4421.4	4552.9	4612.4	4490.2	4402.6	4267.9
15°	4246.0	4211.6	4311.8	4349.3	4474.6	4543.5	4731.4	4884.8	4803.4	4696.9	4484.0
17.5°	4271.1	4249.1	4305.5	4374.4	4587.3	4690.6	4919.2	5132.2	5063.3	4994.4	4775.2
20°	4399.4	4396.3	4421.4	4477.7	4631.2	4834.7	5119.6	5414.0	5439.0	5313.8	5016.3
22.5°	4712.6	4671.9	4671.9	4649.9	4715.7	4925.5	5310.6	5717.7	5830.4	5683.3	5288.7
25°	5000.6	5057.0	5022.6	4922.4	4897.3	5006.9	5448.4	6040.2	6190.5	6052.7	5658.2
27.5°	5370.1	5388.9	5448.4	5313.8	5141.5	5176.0	5598.7	6221.8	6531.8	6347.1	5868.0
30°	5902.4	5868.0	5855.5	5705.2	5479.7	5432.8	5770.9	6488.0	6979.6	6719.7	6115.4
32.5°	6262.5	6347.1	6344.0	6137.3	5864.9	5761.5	5983.9	6738.5	7458.7	7217.6	6572.5
35°	6976.5	7064.2	6995.3	6691.5	6372.1	6165.5	6290.7	7064.2	8006.7	7818.8	6960.8
37.5°	7887.7	8094.3	7947.2	7386.7	6935.8	6710.3	6716.6	7418.0	8567.2	8413.7	7377.3
40°	8517.1	8795.7	8592.2	8066.2	7587.1	7374.1	7289.6	7837.6	9237.3	9074.4	8028.6
42.5°	9296.7	9528.5	9422.0	8902.2	8341.7	8160.1	7991.0	8539.0	10261.2	10186.0	8864.6
45°	10148.5	10258.0	10223.6	9894.8	9271.7	9209.1	8836.5	9462.7	11466.7	11498.0	9910.5
47.5°	10940.7	11000.2	11065.9	10827.9	10439.7	10492.9	9810.3	10452.2	12637.8	12844.5	11075.3
50°	11144.2	11347.7	11501.2	11660.9	11745.4	12105.5	10884.3	11667.1	13984.3	14385.1	12371.7
52.5°	10937.5	10921.9	11388.4	11889.4	12734.9	13489.5	12346.6	13176.4	15174.1	15966.4	13558.4
55°	9998.2	9966.8	10718.3	11382.2	13032.4	14259.8	14435.2	15186.7	16611.4	17641.6	15164.8
57.5°	8354.2	8160.1	8980.5	10070.2	12387.3	14344.4	16533.1	18170.8	18822.1	19996.3	17616.5
60°	5614.4	5533.0	6318.9	7618.4	10057.6	13145.1	17788.8	21906.4	21937.7	23259.1	21421.0
62.5°	3456.9	3472.6	3976.7	4950.5	7042.2	10420.9	17247.0	24890.5	24896.7	26221.3	24552.3
65°	2260.8	2270.2	2677.2	3215.8	4399.4	7067.3	14262.9	25125.3	26954.0	28184.6	25986.4
66°	2013.4	2016.5	2367.2	2805.6	3644.8	5783.5	12597.1	24514.7	27417.4	28444.5	25967.6
67.5°	1697.1	1737.9	2019.7	2357.8	2843.2	4155.2	9995.0	22748.7	27179.4	28081.3	25379.0
70°	1327.7	1349.6	1571.9	1916.3	2132.4	2404.8	5940.0	18543.4	24878.0	26340.3	23237.2
72.5°	1064.6	1083.4	1252.5	1556.2	1731.6	1584.4	3234.6	13455.1	19651.9	21211.2	18277.2
75°	898.7	901.8	983.2	1224.3	1424.7	1189.9	1722.2	8636.0	12609.6	13336.1	11197.4
77.5°	726.5	739.0	795.3	933.1	1146.0	936.3	1027.1	4837.8	6331.4	6384.7	5176.0
80°	591.8	598.1	632.5	679.5	873.6	692.0	695.1	2361.0	2714.8	2652.2	2104.2
82.5°	466.6	472.8	513.5	504.1	641.9	494.7	432.1	1136.7	1249.4	1224.3	967.6
85°	263.0	263.0	403.9	403.9	407.1	313.1	263.0	535.4	660.7	616.9	454.0
87.5°	84.5	87.7	122.1	128.4	203.5	140.9	128.4	200.4	313.1	275.6	162.8
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°	3594.7	3594.7	3594.7	3594.7	3594.7	3594.7	3594.7	3594.7	3594.7	3594.7	3594.7
2.5°	3669.9	3619.8	3597.8	3525.8	3507.0	3460.1	3438.1	3410.0	3400.6	3359.9	3397.4
5°	3698.0	3682.4	3594.7	3503.9	3435.0	3403.7	3356.7	3294.1	3287.8	3231.5	3225.2
7.5°	3817.0	3763.8	3610.4	3513.3	3375.5	3297.2	3193.9	3162.6	3121.9	3103.1	3143.8
10°	4001.8	3867.1	3638.5	3394.3	3225.2	3131.3	3056.1	3034.2	3037.3	3024.8	3006.0
12.5°	4133.3	4004.9	3591.6	3294.1	3074.9	2984.1	2977.8	2999.8	3034.2	3018.5	3040.5
15°	4321.2	4080.0	3557.1	3128.1	2952.8	2927.7	2924.6	2990.4	2987.2	2987.2	2984.1
17.5°	4496.5	4155.2	3431.9	2984.1	2824.4	2843.2	2865.1	2862.0	2893.3	2905.8	2927.7
20°	4718.8	4242.9	3256.5	2840.1	2727.3	2721.1	2717.9	2721.1	2752.4	2771.2	2755.5
22.5°	4913.0	4261.7	3109.4	2702.3	2611.5	2586.4	2545.7	2586.4	2570.8	2577.0	2595.8
25°	5082.1	4264.8	2899.6	2599.0	2495.6	2439.3	2407.9	2404.8	2376.6	2373.5	2373.5
27.5°	5223.0	4158.3	2714.8	2454.9	2357.8	2304.6	2301.5	2267.0	2195.0	2148.1	2154.3
30°	5332.6	4076.9	2586.4	2329.7	2235.7	2226.3	2198.2	2119.9	2025.9	1966.4	1966.4
32.5°	5526.7	3914.1	2411.1	2201.3	2154.3	2141.8	2076.0	2007.1	1919.5	1863.1	1853.7
35°	5670.7	3763.8	2295.2	2091.7	2069.8	2044.7	1988.4	1913.2	1888.2	1875.6	1885.0
37.5°	5833.6	3594.7	2154.3	1997.8	2019.7	1972.7	1906.9	1872.5	1960.2	1938.3	1947.7
40°	6093.5	3475.7	2016.5	1941.4	1963.3	1910.1	1825.5	1813.0	1922.6	1844.3	1825.5
42.5°	6569.4	3472.6	1932.0	1856.8	1872.5	1831.8	1756.6	1750.4	1794.2	1700.3	1672.1
45°	7161.2	3582.2	1869.4	1794.2	1781.7	1775.4	1750.4	1722.2	1684.6	1562.5	1531.2
47.5°	7868.9	3760.7	1856.8	1700.3	1715.9	1769.2	1737.9	1665.8	1568.8	1490.5	1474.8
50°	8726.9	4130.1	1825.5	1631.4	1659.6	1744.1	1719.1	1618.9	1531.2	1481.1	1471.7
52.5°	9675.6	4596.7	1784.8	1524.9	1587.6	1722.2	1734.7	1640.8	1512.4	1468.6	1462.3
55°	10793.5	5285.6	1737.9	1409.1	1503.0	1700.3	1734.7	1578.2	1487.4	1487.4	1481.1
57.5°	13001.0	6525.6	1640.8	1302.6	1427.9	1659.6	1684.6	1581.3	1490.5	1490.5	1478.0
60°	16238.8	8460.7	1456.0	1221.2	1355.8	1603.2	1647.0	1534.3	1456.0	1474.8	1471.7
62.5°	18772.0	9049.4	1299.5	1142.9	1283.8	1499.9	1596.9	1484.2	1415.3	1484.2	1490.5
65°	19313.7	8454.4	1139.8	1058.4	1183.6	1399.7	1524.9	1412.2	1355.8	1490.5	1496.7
66°	19119.5	7991.0	1083.4	1033.3	1139.8	1349.6	1481.1	1387.2	1324.5	1484.2	1487.4
67.5°	18255.3	7295.9	1020.8	980.1	1080.3	1277.6	1431.0	1352.7	1274.4	1465.4	1437.3
70°	16376.6	6187.4	914.3	886.2	995.7	1158.6	1315.1	1265.0	1196.1	1349.6	1299.5
72.5°	12612.8	4944.3	801.6	804.7	898.7	1036.5	1199.3	1164.8	1105.3	1183.6	1152.3
75°	7681.0	3159.5	698.3	704.5	782.8	920.6	1089.7	1064.6	992.6	1036.5	1020.8
77.5°	3403.7	1565.6	588.7	601.2	663.8	811.0	948.8	908.1	832.9	842.3	836.0
80°	1321.4	742.1	479.1	494.7	535.4	648.2	785.9	748.4	682.6	670.1	663.8
82.5°	635.6	413.3	369.5	375.8	391.4	516.7	676.4	629.4	541.7	485.3	485.3
85°	319.4	256.8	259.9	238.0	259.9	350.7	457.2	382.0	316.3	281.8	288.1
87.5°	128.4	128.4	128.4	109.6	115.9	166.0	212.9	144.0	131.5	78.3	78.3
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)