

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: P476744

Luminaire Tested: **IFLD-L-SA8B-827-U-T2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476744
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-827-U-T2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens
Light Source: (128) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

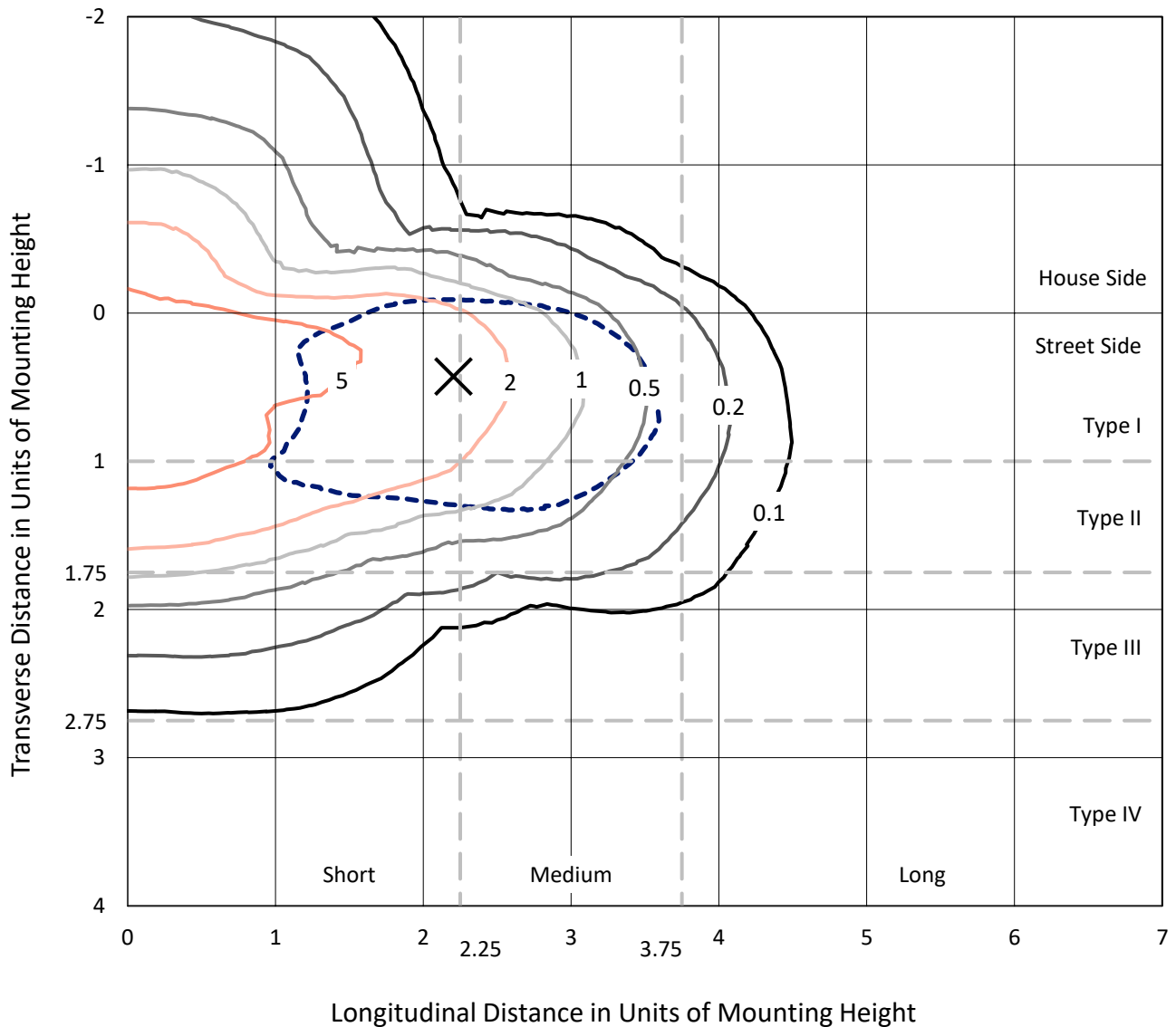
Lumens per Lamp: N/A
Luminaire Lumens: 29881.5 lumens
Efficiency: N/A
Efficacy: 93.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 320
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

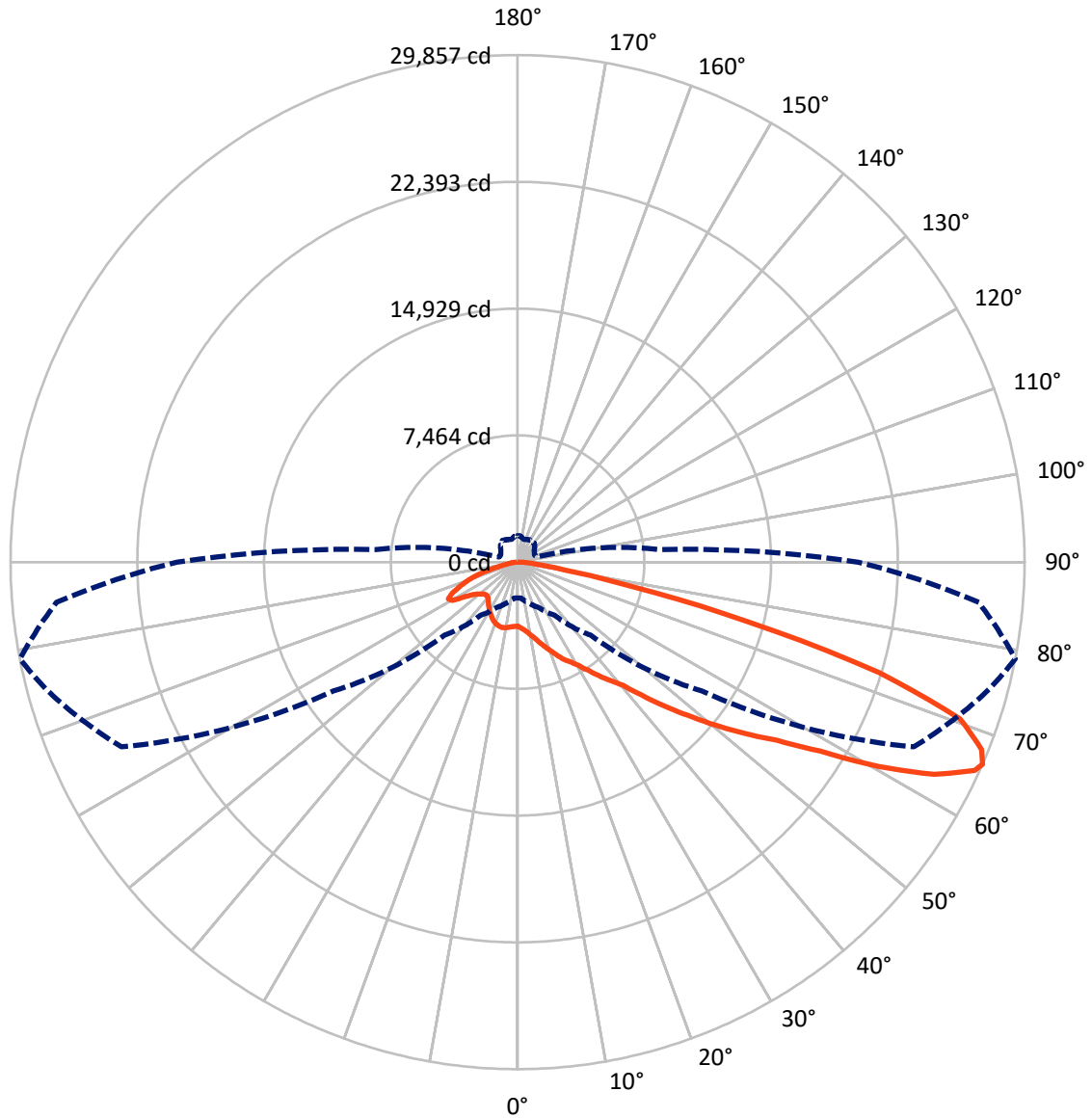
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 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	6034.2	0.0	6034.2
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	23847.3	0.0	23847.3
	% Fixture	79.8	0.0	79.8
Total	Lumens	29881.5	0.0	29881.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	371.0	1.2
10°-20°	1145.7	3.8
20°-30°	1966.6	6.6
30°-40°	3038.0	10.2
40°-50°	4866.1	16.3
50°-60°	7265.5	24.3
60°-70°	7465.3	25.0
70°-80°	3309.2	11.1
80°-90°	454.1	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°	29881.5	100.0
0°-180°	29881.5	100.0



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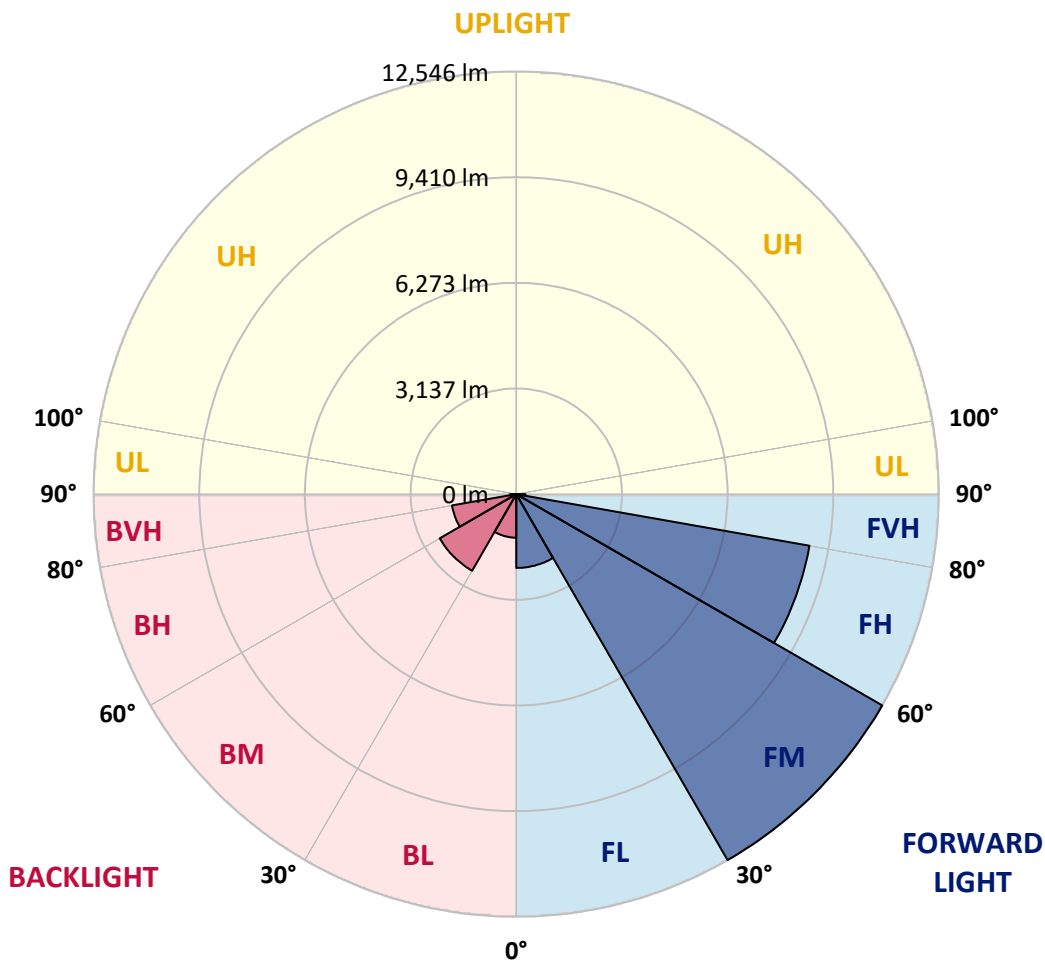
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2190.5	7.3			
FM (30°-60°)	12546.2	42.0			
FH (60°-80°)	8838.3	29.6			G4/12000
FVH (80°-90°)	272.3	0.9			G3/500
BL (0°-30°)	1292.8	4.3	B3/2500		
BM (30°-60°)	2623.4	8.8	B3/5000		
BH (60°-80°)	1936.2	6.5	B3/2500		G3/2500
BVH (80°-90°)	181.7	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°	3773.2	3773.2	3773.2	3773.2	3773.2	3773.2	3773.2	3773.2	3773.2	3773.2	3773.2
2.5°	4013.1	4016.4	4016.4	4003.3	4006.6	4016.4	3980.3	3901.4	3901.4	3888.2	3865.2
5°	4259.6	4243.2	4220.2	4223.5	4210.3	4210.3	4170.9	4095.3	4029.6	4003.3	3934.3
7.5°	4292.5	4308.9	4305.7	4345.1	4364.8	4364.8	4384.5	4322.1	4223.5	4161.0	4092.0
10°	4358.2	4315.5	4312.2	4404.3	4433.8	4502.9	4581.7	4548.9	4466.7	4378.0	4285.9
12.5°	4397.7	4424.0	4424.0	4470.0	4539.0	4640.9	4779.0	4841.4	4713.2	4621.2	4479.9
15°	4456.9	4420.7	4525.9	4565.3	4696.8	4769.1	4966.3	5127.4	5041.9	4930.1	4706.6
17.5°	4483.1	4460.1	4519.3	4591.6	4815.1	4923.6	5163.5	5387.0	5314.7	5242.4	5012.3
20°	4617.9	4614.6	4640.9	4700.1	4861.1	5074.8	5373.9	5682.8	5709.1	5577.6	5265.4
22.5°	4946.6	4903.9	4903.9	4880.8	4949.9	5170.1	5574.4	6001.6	6120.0	5965.5	5551.3
25°	5249.0	5308.1	5272.0	5166.8	5140.5	5255.5	5719.0	6340.2	6497.9	6353.3	5939.2
27.5°	5636.8	5656.5	5719.0	5577.6	5396.9	5433.0	5876.7	6530.8	6856.2	6662.3	6159.4
30°	6195.5	6159.4	6146.2	5988.5	5751.8	5702.5	6057.5	6810.2	7326.2	7053.4	6419.0
32.5°	6573.5	6662.3	6659.0	6442.1	6156.1	6047.6	6281.0	7073.1	7829.1	7576.0	6898.9
35°	7322.9	7414.9	7342.6	7023.8	6688.6	6471.6	6603.1	7414.9	8404.3	8207.0	7306.5
37.5°	8279.4	8496.3	8341.8	7753.5	7280.2	7043.5	7050.1	7786.3	8992.6	8831.5	7743.6
40°	8940.0	9232.5	9018.9	8466.7	7963.8	7740.3	7651.6	8226.8	9696.0	9525.0	8427.3
42.5°	9758.4	10001.6	9889.9	9344.3	8755.9	8565.3	8387.8	8963.0	10770.7	10691.8	9304.8
45°	10652.4	10767.4	10731.3	10386.2	9732.1	9666.4	9275.2	9932.6	12036.1	12069.0	10402.6
47.5°	11484.0	11546.4	11615.4	11365.6	10958.1	11013.9	10297.4	10971.2	13265.4	13482.3	11625.3
50°	11697.6	11911.2	12072.3	12239.9	12328.6	12706.6	11424.8	12246.5	14678.7	15099.4	12986.0
52.5°	11480.7	11464.2	11954.0	12479.8	13367.3	14159.4	12959.7	13830.7	15927.7	16759.2	14231.7
55°	10494.6	10461.8	11250.6	11947.4	13679.5	14967.9	15152.0	15940.8	17436.3	18517.6	15917.8
57.5°	8769.1	8565.3	9426.4	10570.2	13002.4	15056.7	17354.1	19073.1	19756.7	20989.3	18491.3
60°	5893.2	5807.7	6632.7	7996.7	10557.1	13797.8	18672.1	22994.2	23027.1	24414.1	22484.7
62.5°	3628.6	3645.0	4174.2	5196.4	7391.9	10938.3	18103.5	26126.5	26133.1	27523.4	25771.5
65°	2373.0	2382.9	2810.2	3375.5	4617.9	7418.2	14971.2	26373.0	28292.5	29584.2	27276.8
66°	2113.4	2116.7	2484.8	2944.9	3825.8	6070.7	13222.6	25732.1	28778.9	29857.0	27257.1
67.5°	1781.4	1824.2	2120.0	2474.9	2984.4	4361.5	10491.3	23878.3	28529.1	29475.7	26639.2
70°	1393.6	1416.6	1650.0	2011.5	2238.3	2524.2	6235.0	19464.2	26113.3	27648.3	24391.1
72.5°	1117.5	1137.2	1314.7	1633.5	1817.6	1663.1	3395.2	14123.2	20627.7	22264.5	19184.8
75°	943.3	946.6	1032.0	1285.1	1495.5	1249.0	1807.7	9064.9	13235.8	13998.3	11753.5
77.5°	762.5	775.7	834.8	979.5	1203.0	982.7	1078.1	5078.0	6645.8	6701.7	5433.0
80°	621.2	627.8	663.9	713.2	917.0	726.4	729.7	2478.2	2849.6	2783.9	2208.7
82.5°	489.7	496.3	539.0	529.2	673.8	519.3	453.6	1193.1	1311.4	1285.1	1015.6
85°	276.1	276.1	424.0	424.0	427.3	328.7	276.1	562.0	693.5	647.5	476.6
87.5°	88.7	92.0	128.2	134.8	213.6	147.9	134.8	210.4	328.7	289.2	170.9
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°	3773.2	3773.2	3773.2	3773.2	3773.2	3773.2	3773.2	3773.2	3773.2	3773.2	3773.2
2.5°	3852.1	3799.5	3776.5	3700.9	3681.2	3631.9	3608.9	3579.3	3569.4	3526.7	3566.1
5°	3881.7	3865.2	3773.2	3677.9	3605.6	3572.7	3523.4	3457.7	3451.1	3391.9	3385.4
7.5°	4006.6	3950.7	3789.6	3687.7	3543.1	3461.0	3352.5	3319.6	3276.9	3257.2	3299.9
10°	4200.5	4059.2	3819.2	3562.9	3385.4	3286.8	3207.9	3184.9	3188.2	3175.0	3155.3
12.5°	4338.5	4203.8	3769.9	3457.7	3227.6	3132.3	3125.7	3148.7	3184.9	3168.4	3191.4
15°	4535.7	4282.7	3733.8	3283.5	3099.4	3073.1	3069.8	3138.9	3135.6	3135.6	3132.3
17.5°	4719.8	4361.5	3602.3	3132.3	2964.7	2984.4	3007.4	3004.1	3037.0	3050.1	3073.1
20°	4953.2	4453.6	3418.2	2981.1	2862.8	2856.2	2852.9	2856.2	2889.1	2908.8	2892.4
22.5°	5156.9	4473.3	3263.8	2836.5	2741.2	2714.9	2672.1	2714.9	2698.4	2705.0	2724.7
25°	5334.4	4476.6	3043.5	2728.0	2619.6	2560.4	2527.5	2524.2	2494.7	2491.4	2491.4
27.5°	5482.3	4364.8	2849.6	2576.8	2474.9	2419.1	2415.8	2379.6	2304.0	2254.7	2261.3
30°	5597.4	4279.4	2714.9	2445.4	2346.7	2336.9	2307.3	2225.1	2126.5	2064.1	2064.1
32.5°	5801.1	4108.5	2530.8	2310.6	2261.3	2248.1	2179.1	2106.8	2014.8	1955.6	1945.8
35°	5952.3	3950.7	2409.2	2195.6	2172.6	2146.3	2087.1	2008.2	1981.9	1968.8	1978.6
37.5°	6123.2	3773.2	2261.3	2097.0	2120.0	2070.7	2001.6	1965.5	2057.5	2034.5	2044.4
40°	6396.0	3648.3	2116.7	2037.8	2060.8	2004.9	1916.2	1903.0	2018.1	1935.9	1916.2
42.5°	6895.6	3645.0	2027.9	1949.1	1965.5	1922.8	1843.9	1837.3	1883.3	1784.7	1755.1
45°	7516.8	3760.1	1962.2	1883.3	1870.2	1863.6	1837.3	1807.7	1768.3	1640.1	1607.2
47.5°	8259.6	3947.4	1949.1	1784.7	1801.1	1857.0	1824.2	1748.6	1646.7	1564.5	1548.1
50°	9160.2	4335.2	1916.2	1712.4	1742.0	1830.7	1804.4	1699.3	1607.2	1554.6	1544.8
52.5°	10156.1	4825.0	1873.5	1600.7	1666.4	1807.7	1820.9	1722.3	1587.5	1541.5	1534.9
55°	11329.5	5548.1	1824.2	1479.0	1577.6	1784.7	1820.9	1656.5	1561.2	1561.2	1554.6
57.5°	13646.6	6849.6	1722.3	1367.3	1498.8	1742.0	1768.3	1659.8	1564.5	1564.5	1551.4
60°	17045.2	8880.8	1528.3	1281.8	1423.2	1682.8	1728.8	1610.5	1528.3	1548.1	1544.8
62.5°	19704.1	9498.7	1364.0	1199.7	1347.6	1574.4	1676.2	1557.9	1485.6	1557.9	1564.5
65°	20272.8	8874.3	1196.4	1110.9	1242.4	1469.2	1600.7	1482.3	1423.2	1564.5	1571.1
66°	20069.0	8387.8	1137.2	1084.6	1196.4	1416.6	1554.6	1456.0	1390.3	1557.9	1561.2
67.5°	19161.8	7658.2	1071.5	1028.8	1133.9	1341.0	1502.1	1419.9	1337.7	1538.2	1508.6
70°	17189.8	6494.6	959.7	930.2	1045.2	1216.1	1380.4	1327.9	1255.5	1416.6	1364.0
72.5°	13239.1	5189.8	841.4	844.7	943.3	1087.9	1258.8	1222.7	1160.2	1242.4	1209.5
75°	8062.4	3316.3	732.9	739.5	821.7	966.3	1143.8	1117.5	1041.9	1087.9	1071.5
77.5°	3572.7	1643.4	617.9	631.1	696.8	851.3	995.9	953.2	874.3	884.1	877.6
80°	1387.0	779.0	502.9	519.3	562.0	680.4	825.0	785.5	716.5	703.4	696.8
82.5°	667.2	433.9	387.8	394.4	410.8	542.3	709.9	660.6	568.6	509.4	509.4
85°	335.2	269.5	272.8	249.8	272.8	368.1	479.9	401.0	332.0	295.8	302.4
87.5°	134.8	134.8	134.8	115.0	121.6	174.2	223.5	151.2	138.0	82.2	82.2
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)