

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: P476772

Luminaire Tested: **IFLD-M-SA4A-830-U-T2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476772
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-830-U-T2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens
Light Source: (64) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

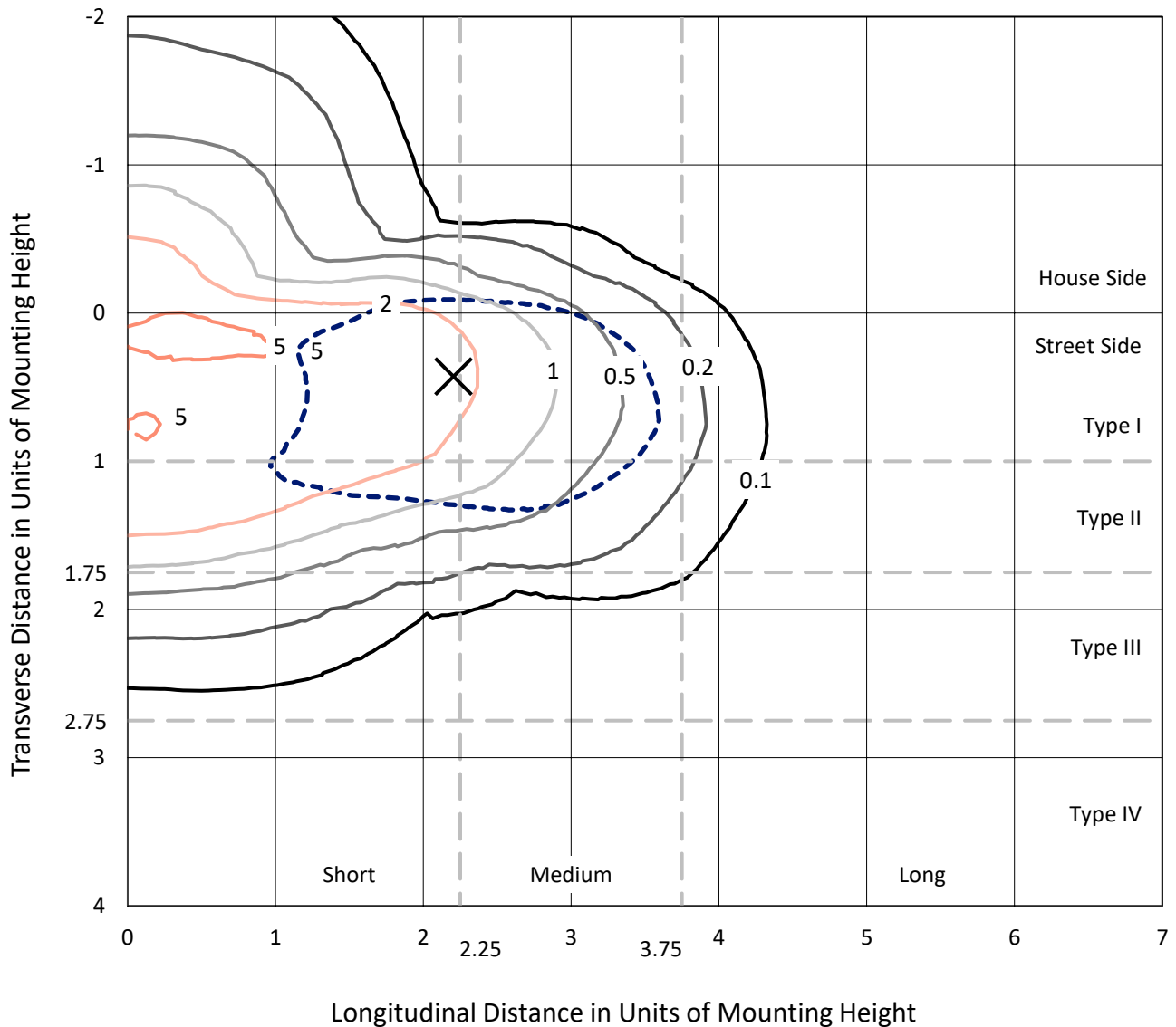
Lumens per Lamp: N/A
Luminaire Lumens: 14656.4 lumens
Efficiency: N/A
Efficacy: 114.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 128.6
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

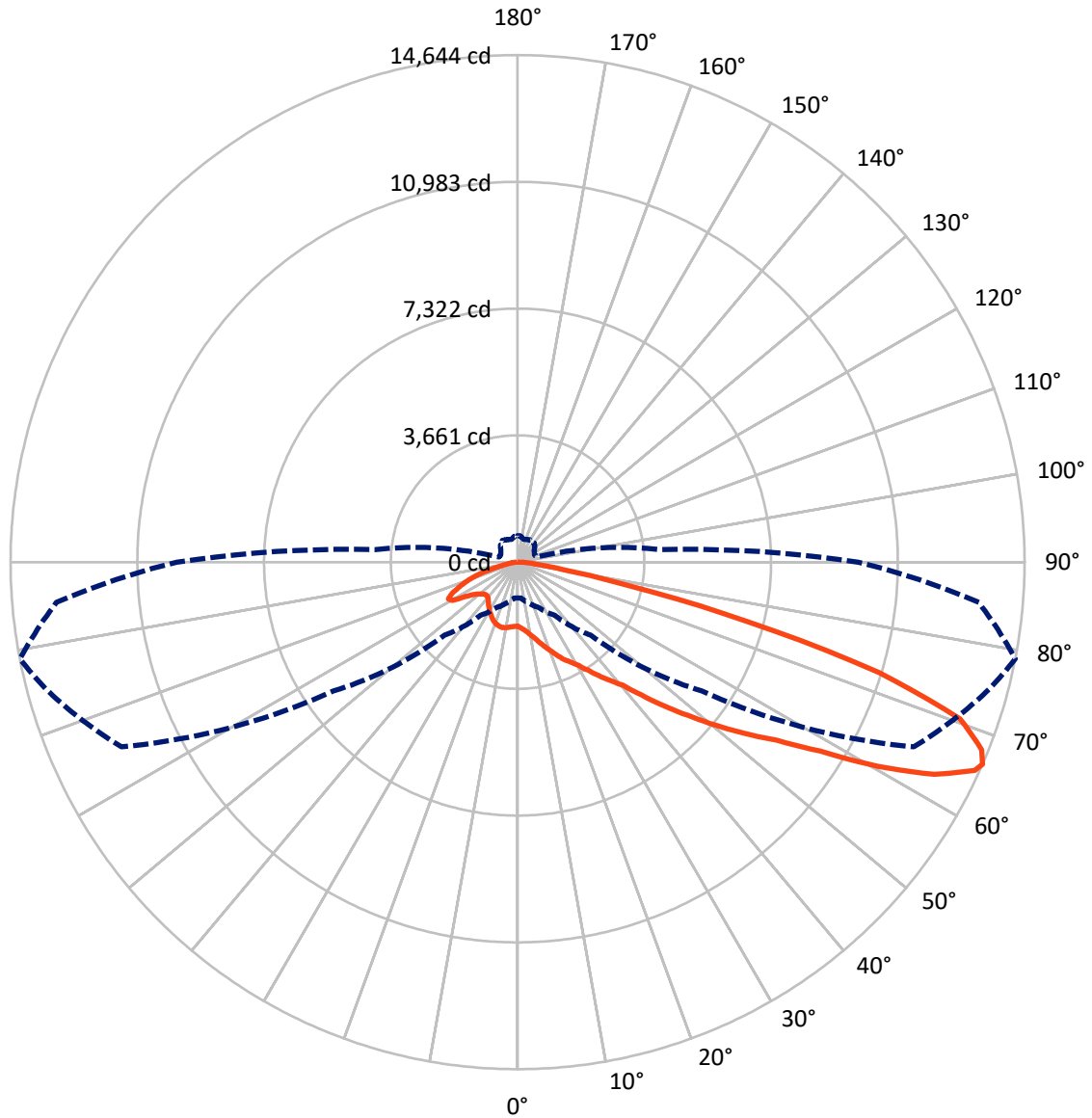
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.9 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	2959.7	0.0	2959.7
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	11696.8	0.0	11696.8
	% Fixture	79.8	0.0	79.8
Total	Lumens	14656.4	0.0	14656.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.0	1.2
10°-20°	561.9	3.8
20°-30°	964.6	6.6
30°-40°	1490.1	10.2
40°-50°	2386.8	16.3
50°-60°	3563.6	24.3
60°-70°	3661.6	25.0
70°-80°	1623.1	11.1
80°-90°	222.7	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°	14656.4	100.0
0°-180°	14656.4	100.0



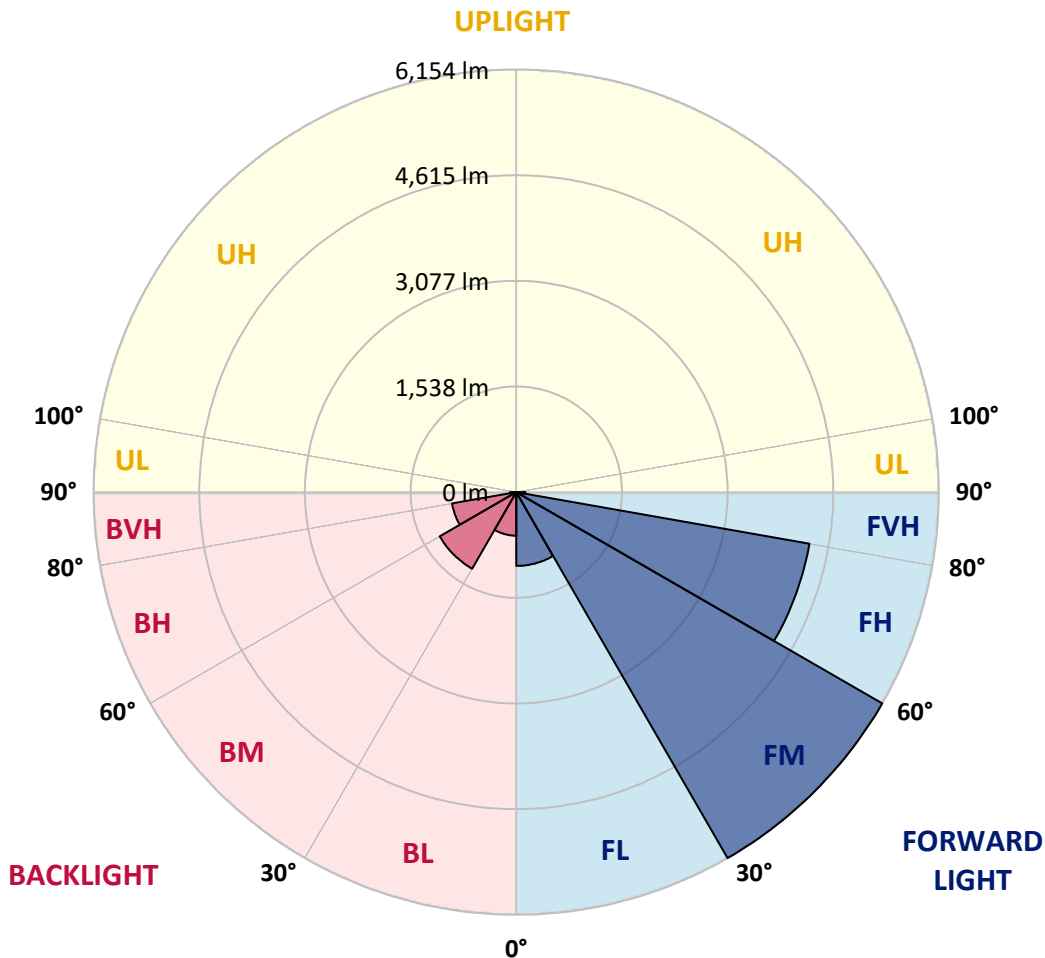
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1074.4	7.3			
FM (30°-60°)	6153.8	42.0			
FH (60°-80°)	4335.1	29.6			G2/5000
FVH (80°-90°)	133.6	0.9			G2/225
BL (0°-30°)	634.1	4.3	B2/1000		
BM (30°-60°)	1286.7	8.8	B2/2500		
BH (60°-80°)	949.7	6.5	B2/1000		G2/1000
BVH (80°-90°)	89.1	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	1850.7	1850.7	1850.7	1850.7	1850.7	1850.7	1850.7	1850.7	1850.7	1850.7	1850.7
2.5°	1968.4	1970.0	1970.0	1963.6	1965.2	1970.0	1952.3	1913.6	1913.6	1907.1	1895.8
5°	2089.3	2081.2	2070.0	2071.6	2065.1	2065.1	2045.8	2008.7	1976.4	1963.6	1929.7
7.5°	2105.4	2113.5	2111.9	2131.2	2140.9	2140.9	2150.6	2119.9	2071.6	2040.9	2007.1
10°	2137.7	2116.7	2115.1	2160.2	2174.7	2208.6	2247.3	2231.2	2190.9	2147.3	2102.2
12.5°	2157.0	2169.9	2169.9	2192.5	2226.3	2276.3	2344.0	2374.6	2311.8	2266.6	2197.3
15°	2186.0	2168.3	2219.9	2239.2	2303.7	2339.2	2435.9	2514.9	2473.0	2418.2	2308.5
17.5°	2198.9	2187.6	2216.7	2252.1	2361.7	2414.9	2532.6	2642.3	2606.8	2571.3	2458.5
20°	2265.0	2263.4	2276.3	2305.3	2384.3	2489.1	2635.8	2787.3	2800.2	2735.8	2582.6
22.5°	2426.2	2405.3	2405.3	2394.0	2427.8	2535.9	2734.1	2943.7	3001.8	2926.0	2722.9
25°	2574.5	2603.6	2585.8	2534.2	2521.3	2577.8	2805.1	3109.8	3187.1	3116.2	2913.1
27.5°	2764.8	2774.4	2805.1	2735.8	2647.1	2664.8	2882.5	3203.3	3362.9	3267.8	3021.1
30°	3038.8	3021.1	3014.6	2937.3	2821.2	2797.0	2971.1	3340.3	3593.4	3459.6	3148.5
32.5°	3224.2	3267.8	3266.1	3159.7	3019.5	2966.3	3080.7	3469.3	3840.1	3715.9	3383.8
35°	3591.8	3636.9	3601.5	3445.1	3280.6	3174.2	3238.7	3636.9	4122.2	4025.4	3583.7
37.5°	4060.9	4167.3	4091.5	3803.0	3570.8	3454.8	3458.0	3819.1	4410.7	4331.7	3798.1
40°	4384.9	4528.4	4423.6	4152.8	3906.1	3796.5	3753.0	4035.1	4755.7	4671.9	4133.5
42.5°	4786.4	4905.7	4850.8	4583.2	4294.7	4201.2	4114.1	4396.2	5282.9	5244.2	4563.9
45°	5224.9	5281.3	5263.5	5094.3	4773.5	4741.2	4549.4	4871.8	5903.6	5919.7	5102.3
47.5°	5632.7	5663.3	5697.2	5574.7	5374.8	5402.2	5050.7	5381.2	6506.5	6612.9	5702.0
50°	5737.5	5842.3	5921.3	6003.5	6047.0	6232.4	5603.7	6006.7	7199.7	7406.0	6369.5
52.5°	5631.1	5623.0	5863.3	6121.2	6556.5	6945.0	6356.6	6783.8	7812.3	8220.2	6980.4
55°	5147.5	5131.4	5518.3	5860.0	6709.6	7341.6	7431.8	7818.7	8552.3	9082.6	7807.5
57.5°	4301.1	4201.2	4623.5	5184.6	6377.5	7385.1	8512.0	9355.1	9690.4	10294.9	9069.7
60°	2890.5	2848.6	3253.2	3922.3	5178.1	6767.6	9158.4	11278.3	11294.5	11974.8	11028.5
62.5°	1779.8	1787.8	2047.4	2548.7	3625.6	5365.1	8879.5	12814.7	12817.9	13499.8	12640.6
65°	1163.9	1168.8	1378.4	1655.6	2265.0	3638.5	7343.2	12935.6	13877.1	14510.6	13378.9
66°	1036.6	1038.2	1218.8	1444.5	1876.5	2977.6	6485.5	12621.2	14115.7	14644.4	13369.2
67.5°	873.8	894.7	1039.8	1213.9	1463.8	2139.3	5145.9	11712.0	13993.1	14457.4	13066.2
70°	683.5	694.8	809.3	986.6	1097.8	1238.1	3058.2	9546.9	12808.2	13561.1	11963.5
72.5°	548.1	557.8	644.8	801.2	891.5	815.7	1665.3	6927.2	10117.6	10920.4	9409.9
75°	462.7	464.3	506.2	630.3	733.5	612.6	886.7	4446.2	6492.0	6866.0	5764.9
77.5°	374.0	380.5	409.5	480.4	590.0	482.0	528.8	2490.7	3259.7	3287.1	2664.8
80°	304.7	307.9	325.6	349.8	449.8	356.3	357.9	1215.5	1397.7	1365.5	1083.3
82.5°	240.2	243.4	264.4	259.5	330.5	254.7	222.5	585.2	643.2	630.3	498.1
85°	135.4	135.4	208.0	208.0	209.6	161.2	135.4	275.7	340.2	317.6	233.8
87.5°	43.5	45.1	62.9	66.1	104.8	72.5	66.1	103.2	161.2	141.9	83.8
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°	1850.7	1850.7	1850.7	1850.7	1850.7	1850.7	1850.7	1850.7	1850.7	1850.7	1850.7
2.5°	1889.4	1863.6	1852.3	1815.2	1805.6	1781.4	1770.1	1755.6	1750.8	1729.8	1749.1
5°	1903.9	1895.8	1850.7	1804.0	1768.5	1752.4	1728.2	1695.9	1692.7	1663.7	1660.5
7.5°	1965.2	1937.8	1858.8	1808.8	1737.9	1697.6	1644.4	1628.2	1607.3	1597.6	1618.6
10°	2060.3	1991.0	1873.3	1747.5	1660.5	1612.1	1573.4	1562.1	1563.7	1557.3	1547.6
12.5°	2128.0	2061.9	1849.1	1695.9	1583.1	1536.3	1533.1	1544.4	1562.1	1554.1	1565.4
15°	2224.7	2100.6	1831.4	1610.5	1520.2	1507.3	1505.7	1539.6	1538.0	1538.0	1536.3
17.5°	2315.0	2139.3	1766.9	1536.3	1454.1	1463.8	1475.1	1473.5	1489.6	1496.0	1507.3
20°	2429.5	2184.4	1676.6	1462.2	1404.1	1400.9	1399.3	1400.9	1417.0	1426.7	1418.7
22.5°	2529.4	2194.1	1600.8	1391.3	1344.5	1331.6	1310.6	1331.6	1323.5	1326.8	1336.4
25°	2616.5	2195.7	1492.8	1338.1	1284.9	1255.8	1239.7	1238.1	1223.6	1222.0	1222.0
27.5°	2689.0	2140.9	1397.7	1263.9	1213.9	1186.5	1184.9	1167.2	1130.1	1105.9	1109.1
30°	2745.4	2099.0	1331.6	1199.4	1151.0	1146.2	1131.7	1091.4	1043.0	1012.4	1012.4
32.5°	2845.4	2015.1	1241.3	1133.3	1109.1	1102.7	1068.8	1033.4	988.2	959.2	954.4
35°	2919.5	1937.8	1181.7	1076.9	1065.6	1052.7	1023.7	985.0	972.1	965.7	970.5
37.5°	3003.4	1850.7	1109.1	1028.5	1039.8	1015.6	981.8	964.0	1009.2	997.9	1002.7
40°	3137.2	1789.4	1038.2	999.5	1010.8	983.4	939.9	933.4	989.8	949.5	939.9
42.5°	3382.2	1787.8	994.7	956.0	964.0	943.1	904.4	901.2	923.7	875.4	860.9
45°	3686.9	1844.3	962.4	923.7	917.3	914.1	901.2	886.7	867.3	804.4	788.3
47.5°	4051.2	1936.1	956.0	875.4	883.4	910.8	894.7	857.6	807.7	767.4	759.3
50°	4493.0	2126.4	939.9	839.9	854.4	897.9	885.0	833.5	788.3	762.5	757.7
52.5°	4981.4	2366.6	918.9	785.1	817.3	886.7	893.1	844.7	778.6	756.1	752.9
55°	5556.9	2721.2	894.7	725.5	773.8	875.4	893.1	812.5	765.8	765.8	762.5
57.5°	6693.5	3359.6	844.7	670.6	735.1	854.4	867.3	814.1	767.4	767.4	760.9
60°	8360.4	4355.9	749.6	628.7	698.0	825.4	848.0	789.9	749.6	759.3	757.7
62.5°	9664.6	4659.0	669.0	588.4	661.0	772.2	822.2	764.1	728.7	764.1	767.4
65°	9943.5	4352.7	586.8	544.9	609.4	720.6	785.1	727.1	698.0	767.4	770.6
66°	9843.6	4114.1	557.8	532.0	586.8	694.8	762.5	714.2	681.9	764.1	765.8
67.5°	9398.6	3756.2	525.5	504.6	556.2	657.7	736.7	696.4	656.1	754.5	740.0
70°	8431.3	3185.5	470.7	456.2	512.7	596.5	677.1	651.3	615.8	694.8	669.0
72.5°	6493.6	2545.5	412.7	414.3	462.7	533.6	617.4	599.7	569.1	609.4	593.3
75°	3954.5	1626.6	359.5	362.7	403.0	474.0	561.0	548.1	511.0	533.6	525.5
77.5°	1752.4	806.1	303.1	309.5	341.8	417.5	488.5	467.5	428.8	433.7	430.4
80°	680.3	382.1	246.7	254.7	275.7	333.7	404.6	385.3	351.4	345.0	341.8
82.5°	327.3	212.8	190.2	193.5	201.5	266.0	348.2	324.0	278.9	249.9	249.9
85°	164.4	132.2	133.8	122.5	133.8	180.6	235.4	196.7	162.8	145.1	148.3
87.5°	66.1	66.1	66.1	56.4	59.6	85.4	109.6	74.2	67.7	40.3	40.3
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)