

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: P478020

Luminaire Tested: **IFLD-M-SA4A-722-U-T4FT**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478020
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-722-U-T4FT
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens
Light Source: (64) 2200K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

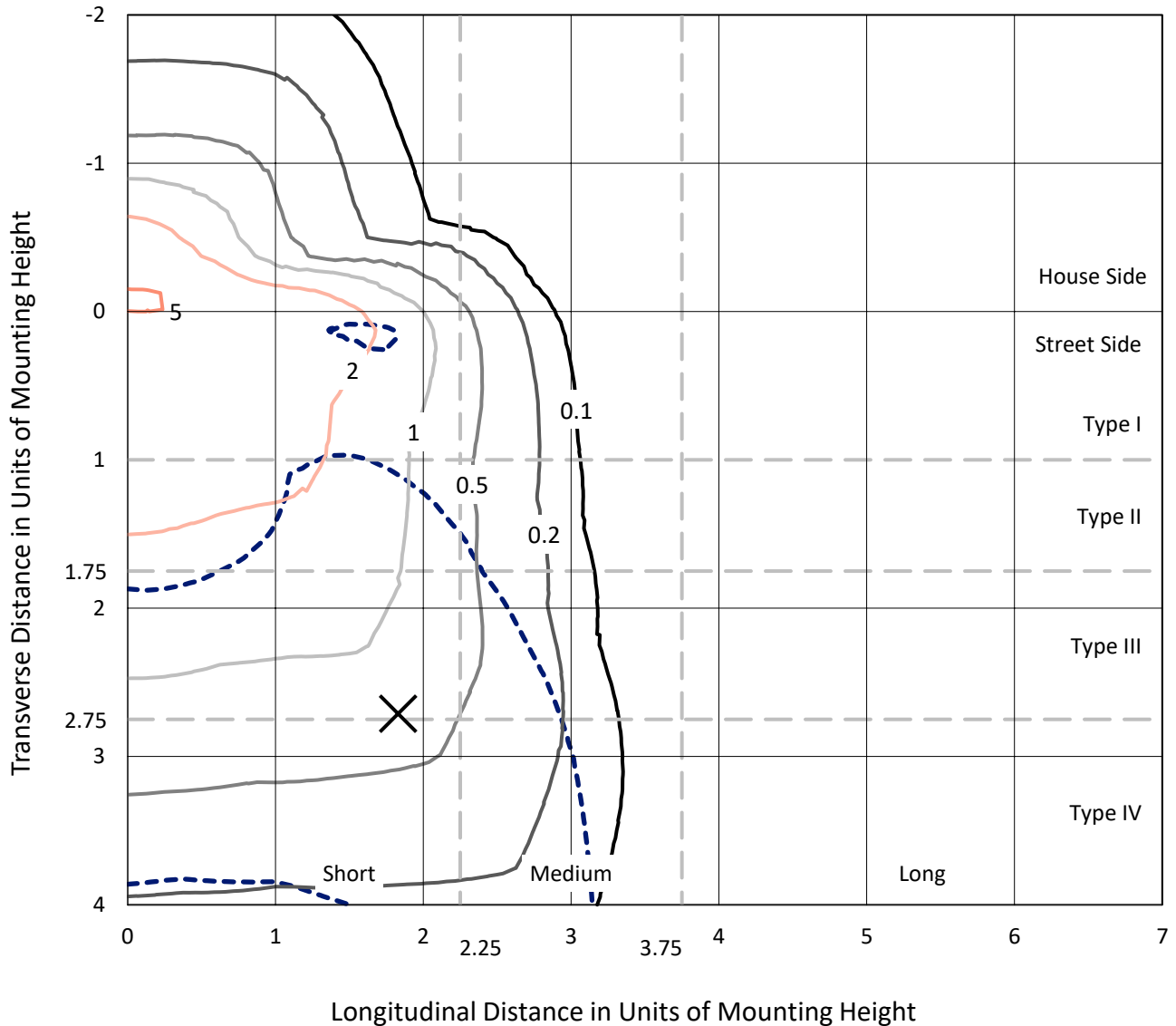
Lumens per Lamp: N/A
Luminaire Lumens: 13936.2 lumens
Efficiency: N/A
Efficacy: 108.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

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

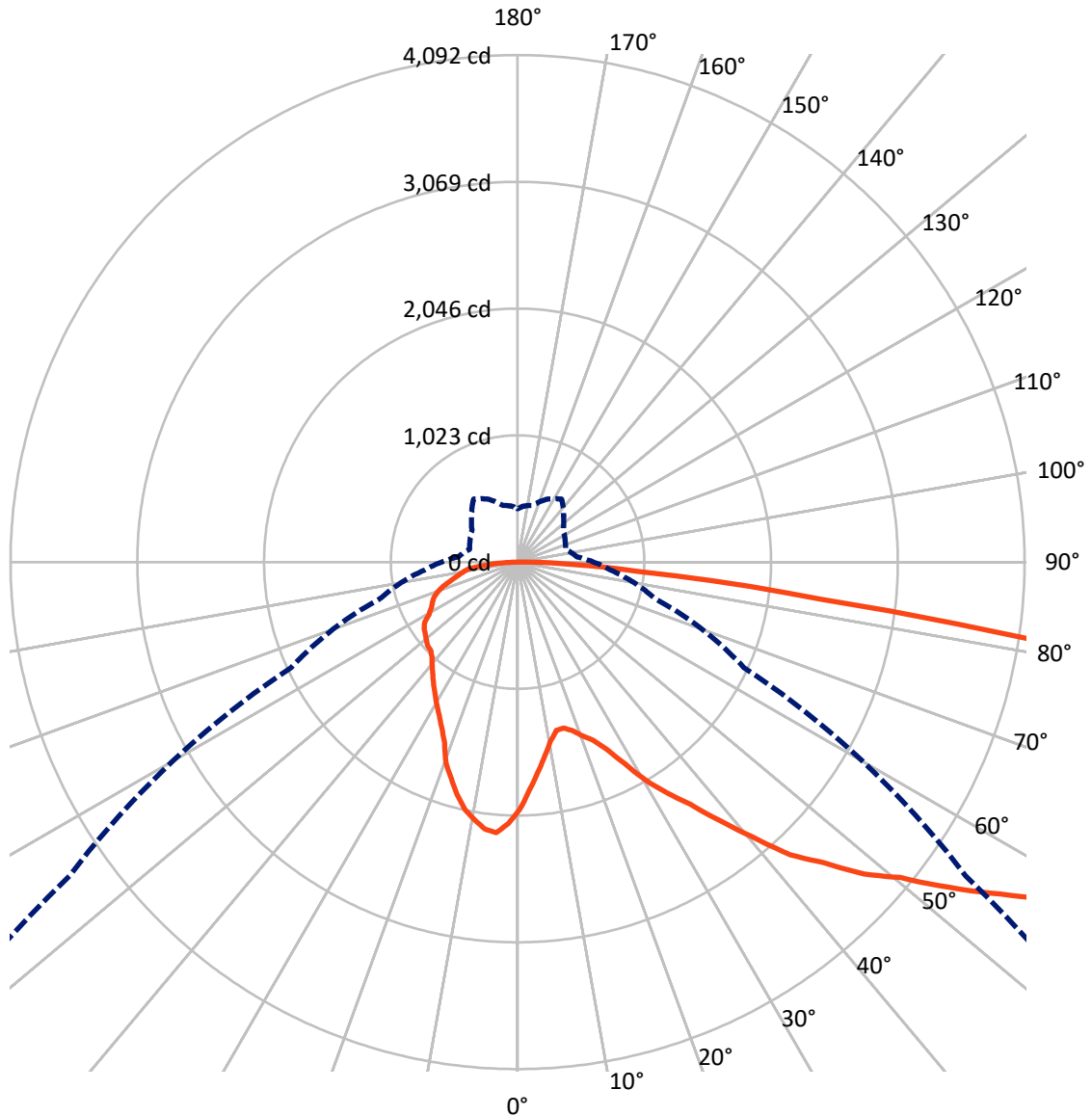
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3010.4	0.0	3010.4
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	10925.8	0.0	10925.8
	% Fixture	78.4	0.0	78.4
Total	Lumens	13936.2	0.0	13936.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.4	1.3
10°-20°	516.1	3.7
20°-30°	849.4	6.1
30°-40°	1270.2	9.1
40°-50°	1883.1	13.5
50°-60°	2713.7	19.5
60°-70°	3463.0	24.8
70°-80°	2694.8	19.3
80°-90°	361.5	2.6
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°	13936.2	100.0
0°-180°	13936.2	100.0



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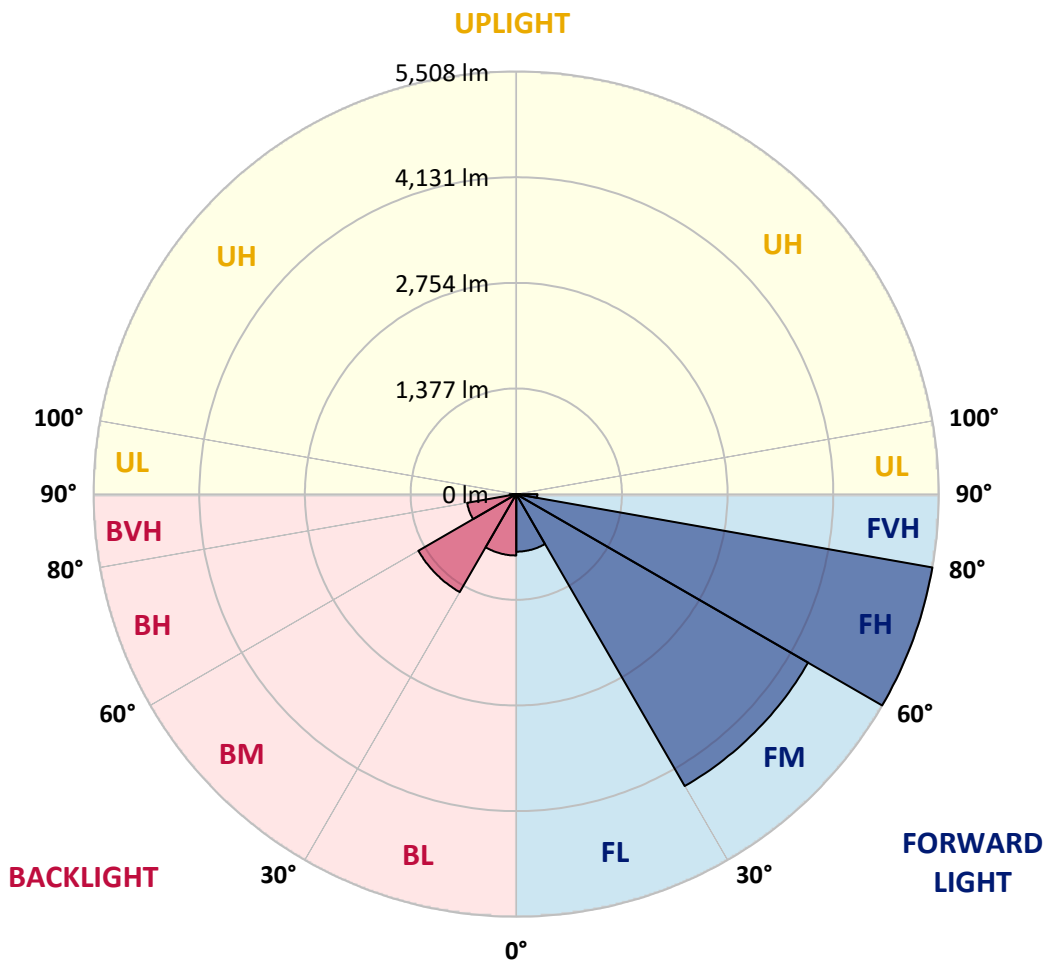
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	750.0	5.4			
FM (30°-60°)	4392.8	31.5			
FH (60°-80°)	5507.9	39.5			G3/7500
FVH (80°-90°)	275.2	2.0			G3/500
BL (0°-30°)	799.8	5.7	B2/1000		
BM (30°-60°)	1474.2	10.6	B2/2500		
BH (60°-80°)	650.0	4.7	B2/1000		G2/1000
BVH (80°-90°)	86.3	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-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	1998.0	1998.0	1998.0	1998.0	1998.0	1998.0	1998.0	1998.0	1998.0	1998.0	1998.0
2.5°	1790.2	1796.1	1815.3	1819.7	1840.3	1828.5	1853.6	1897.8	1922.8	1959.7	2003.9
5°	1648.8	1623.7	1635.5	1681.2	1704.8	1710.7	1737.2	1812.3	1859.5	1914.0	1996.5
7.5°	1482.3	1477.9	1501.4	1530.9	1578.0	1582.5	1641.4	1707.7	1805.0	1925.8	2023.0
10°	1368.8	1388.0	1401.2	1432.2	1464.6	1464.6	1539.7	1654.7	1765.2	1881.6	2028.9
12.5°	1362.9	1351.1	1354.1	1370.3	1393.9	1423.3	1494.1	1597.2	1737.2	1872.7	2054.0
15°	1382.1	1386.5	1360.0	1380.6	1389.4	1399.8	1477.9	1594.3	1719.5	1903.7	2096.7
17.5°	1483.7	1458.7	1417.4	1398.3	1429.2	1429.2	1482.3	1573.6	1722.4	1919.9	2158.6
20°	1563.3	1563.3	1495.5	1474.9	1497.0	1492.6	1529.4	1597.2	1737.2	1952.3	2227.8
22.5°	1697.4	1716.6	1604.6	1561.8	1560.4	1572.2	1604.6	1662.0	1778.4	1998.0	2294.1
25°	1890.4	1894.8	1765.2	1721.0	1673.8	1693.0	1698.9	1756.3	1815.3	2051.0	2369.3
27.5°	2105.5	2102.6	1983.2	1872.7	1841.8	1846.2	1813.8	1852.1	1869.8	2067.2	2476.8
30°	2344.2	2317.7	2227.8	2071.6	2046.6	2018.6	1947.9	1946.4	1983.2	2158.6	2625.7
32.5°	2500.4	2466.5	2404.6	2292.7	2223.4	2226.4	2114.4	2112.9	2080.5	2258.8	2755.3
35°	2653.7	2602.1	2585.9	2470.9	2401.7	2409.1	2319.2	2307.4	2248.5	2410.5	2969.0
37.5°	2837.8	2792.2	2817.2	2730.3	2644.8	2609.5	2568.2	2553.5	2476.8	2624.2	3260.7
40°	3041.2	3026.4	3010.2	2967.5	2915.9	2918.9	2874.7	2859.9	2746.5	2882.0	3540.7
42.5°	3315.2	3259.2	3175.2	3203.2	3229.8	3257.8	3243.0	3204.7	3086.8	3144.3	3853.0
45°	3570.1	3496.5	3341.7	3350.6	3459.6	3481.7	3660.0	3655.6	3418.4	3477.3	4208.1
47.5°	3742.5	3708.6	3615.8	3605.5	3761.7	3760.2	4081.4	4081.4	3767.6	3808.8	4589.7
50°	3998.9	3910.5	3870.7	3922.3	4001.8	4056.4	4511.7	4539.6	4110.9	4155.1	5089.2
52.5°	4299.5	4189.0	4088.8	4221.4	4362.8	4398.2	4937.5	4925.7	4374.6	4557.3	5674.2
55°	4548.5	4492.5	4423.2	4499.9	4731.2	4775.4	5364.8	5255.7	4638.4	4890.3	5955.6
57.5°	4838.8	4872.6	4887.4	4868.2	5143.8	5213.0	5852.5	5540.1	4865.3	5114.3	6120.6
60°	5276.4	5297.0	5316.1	5361.8	5653.6	5750.8	6238.5	5896.7	5008.2	5244.0	6133.9
62.5°	5942.4	5862.8	5905.5	6063.2	6297.5	6408.0	6807.3	6147.2	5117.2	5322.0	5700.7
65°	6704.1	6596.6	6552.4	6755.7	7362.7	7274.3	7517.5	6334.3	4959.6	5030.3	4834.3
67.5°	7476.2	7488.0	7374.5	7782.7	8526.8	8526.8	8177.6	6424.2	4532.3	4077.0	3390.4
70°	8089.2	8126.0	8187.9	8979.1	10157.9	10336.1	8995.3	6055.8	3661.5	2714.1	1853.6
72.5°	8080.3	7969.8	8286.6	9743.8	11640.1	11491.3	9166.2	4788.7	2285.3	1329.0	850.2
73°	7899.1	7806.3	8152.5	9736.4	11700.5	11560.6	9041.0	4414.4	2015.7	1152.2	755.9
75°	6450.7	6282.7	6872.1	8818.5	10825.3	10932.9	7681.0	2879.1	1105.1	710.2	531.9
77.5°	2941.0	3014.6	3782.3	5915.8	8342.6	8469.3	5049.5	1245.1	605.6	498.0	391.9
80°	944.5	991.6	1472.0	2941.0	5229.2	5457.6	2333.9	565.8	431.7	381.6	293.2
82.5°	361.0	359.5	617.4	1222.9	2478.3	2624.2	853.1	344.8	321.2	281.4	207.8
85°	126.7	132.6	232.8	483.3	975.4	1021.1	296.2	191.5	222.5	188.6	119.3
87.5°	44.2	45.7	82.5	175.3	335.9	355.1	82.5	76.6	110.5	109.0	60.4
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°	1998.0	1998.0	1998.0	1998.0	1998.0	1998.0	1998.0	1998.0	1998.0	1998.0	1998.0
2.5°	2018.6	2031.9	2036.3	2089.3	2089.3	2089.3	2110.0	2110.0	2104.1	2089.3	2124.7
5°	2027.4	2051.0	2096.7	2142.4	2154.2	2164.5	2192.5	2168.9	2177.7	2163.0	2176.3
7.5°	2052.5	2084.9	2170.4	2198.4	2179.2	2201.3	2171.8	2155.6	2139.4	2145.3	2124.7
10°	2095.2	2136.5	2176.3	2227.8	2191.0	2168.9	2108.5	2093.7	2042.2	2024.5	2040.7
12.5°	2148.3	2198.4	2266.1	2247.0	2176.3	2112.9	2048.1	1986.2	1955.2	1911.0	1922.8
15°	2201.3	2258.8	2269.1	2236.7	2148.3	2068.7	1950.8	1863.9	1833.0	1793.2	1813.8
17.5°	2258.8	2313.3	2295.6	2211.6	2092.3	1971.5	1837.4	1751.9	1687.1	1662.0	1662.0
20°	2344.2	2370.8	2342.8	2170.4	2024.5	1865.4	1735.7	1638.5	1573.6	1563.3	1547.1
22.5°	2410.5	2453.3	2328.0	2110.0	1925.8	1726.9	1578.0	1541.2	1522.1	1505.8	1485.2
25°	2496.0	2494.5	2301.5	2054.0	1756.3	1561.8	1472.0	1469.0	1460.2	1454.3	1482.3
27.5°	2577.0	2543.1	2270.6	1915.5	1581.0	1436.6	1388.0	1420.4	1433.7	1424.8	1436.6
30°	2705.2	2649.2	2226.4	1768.1	1426.3	1309.9	1318.7	1362.9	1385.0	1398.3	1380.6
32.5°	2840.8	2755.3	2135.0	1614.9	1289.3	1230.3	1250.9	1296.6	1323.1	1337.9	1354.1
35°	3036.7	2837.8	2042.2	1414.5	1190.5	1181.7	1193.5	1218.5	1256.8	1267.2	1271.6
37.5°	3278.4	2963.1	1916.9	1253.9	1113.9	1124.2	1136.0	1144.9	1146.3	1165.5	1158.1
40°	3520.0	3069.2	1734.2	1100.7	1034.4	1090.3	1084.4	1068.2	1055.0	1037.3	1032.9
42.5°	3732.2	3162.0	1530.9	971.0	963.6	1055.0	1035.8	994.6	963.6	950.4	928.3
45°	3970.9	3293.1	1326.1	890.0	909.1	1012.2	1006.4	943.0	903.2	856.1	850.2
47.5°	4280.3	3430.2	1130.1	806.0	857.5	996.0	999.0	917.9	860.5	797.1	788.3
50°	4676.7	3627.6	981.3	770.6	826.6	972.5	976.9	884.1	808.9	744.1	738.2
52.5°	5056.8	3829.5	857.5	716.1	806.0	944.5	954.8	853.1	766.2	685.1	689.6
55°	5248.4	3755.8	751.5	676.3	758.8	898.8	937.1	831.0	701.4	645.4	643.9
57.5°	5291.1	3574.6	667.5	635.0	719.0	850.2	907.6	764.7	671.9	624.7	618.8
60°	5151.1	3257.8	601.2	590.8	668.9	800.1	839.9	729.3	642.4	604.1	595.3
62.5°	4806.3	2929.2	555.5	570.2	626.2	745.6	797.1	704.3	614.4	587.9	568.7
65°	3941.4	2409.1	518.6	530.4	582.0	692.5	770.6	676.3	589.4	564.3	562.9
67.5°	2730.3	1660.6	489.2	511.3	546.6	654.2	744.1	645.4	557.0	548.1	536.3
70°	1398.3	885.5	450.9	468.6	508.3	605.6	696.9	612.9	523.1	521.6	506.9
72.5°	708.7	518.6	406.7	433.2	461.2	542.2	638.0	570.2	480.3	464.1	440.6
73°	612.9	480.3	399.3	422.9	449.4	524.5	620.3	559.9	474.4	450.9	428.8
75°	446.5	378.7	358.0	381.6	402.2	473.0	561.4	512.8	436.1	411.1	390.5
77.5°	334.5	291.7	297.6	324.2	341.8	408.1	499.5	464.1	394.9	361.0	352.2
80°	246.1	222.5	246.1	271.1	284.4	359.5	455.3	402.2	333.0	294.7	287.3
82.5°	175.3	162.1	190.1	206.3	212.2	297.6	409.6	321.2	252.0	201.9	185.7
85°	100.2	98.7	128.2	126.7	131.1	173.9	269.6	213.6	162.1	123.8	120.8
87.5°	44.2	48.6	64.8	51.6	54.5	82.5	114.9	79.6	66.3	36.8	28.0
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)