

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: P478293

Luminaire Tested: **IFLD-M-SA4A-827-U-T4FT**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478293
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-827-U-T4FT
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens
Light Source: (64) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

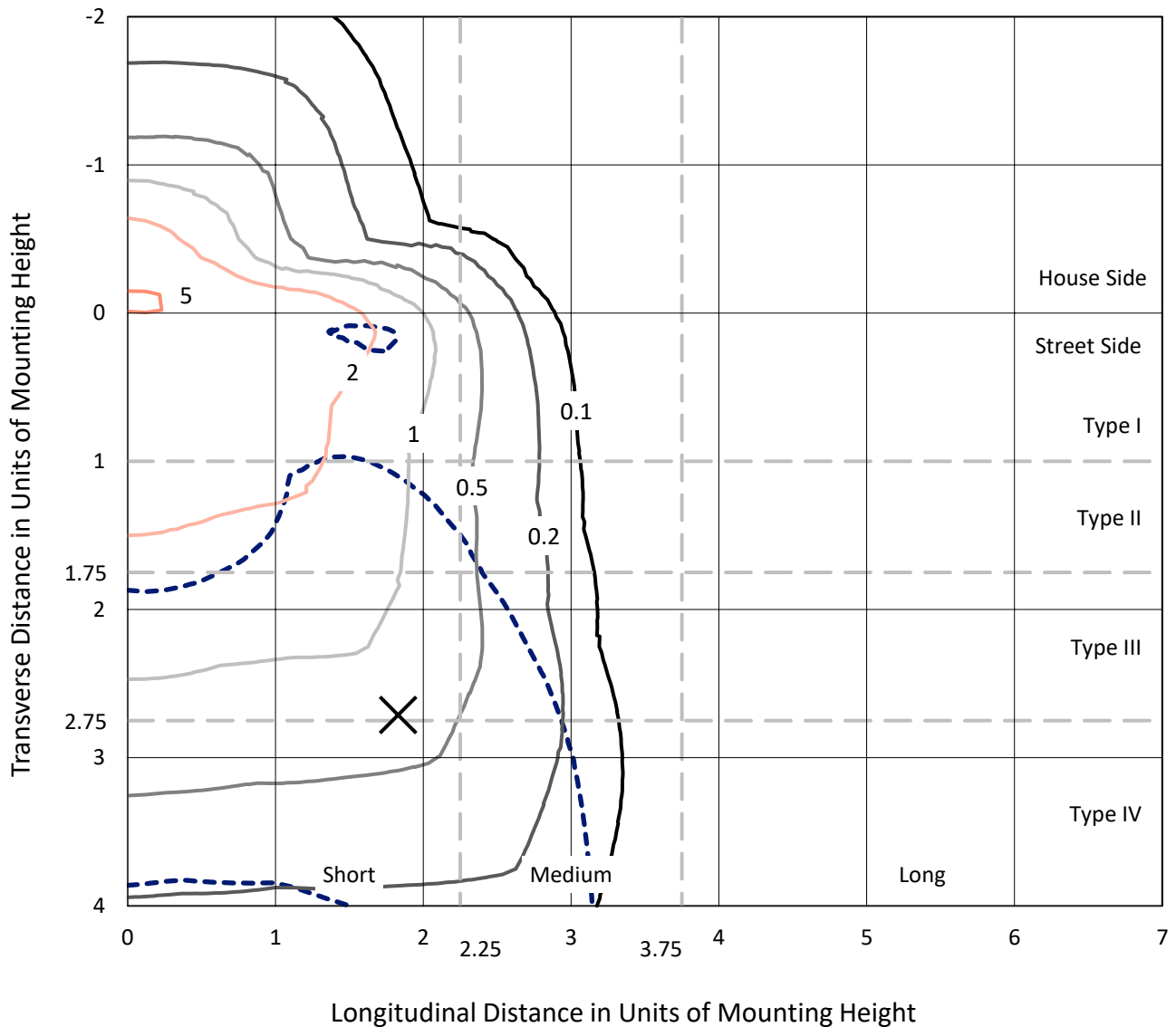
Lumens per Lamp: N/A
Luminaire Lumens: 13907.8 lumens
Efficiency: N/A
Efficacy: 108.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

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

REPORT NUMBER: P478293
 CATALOG NUMBER: IFLD-M-SA4A-827-U-T4FT

Iso-Footcandle Lines of Horizontal Illumination

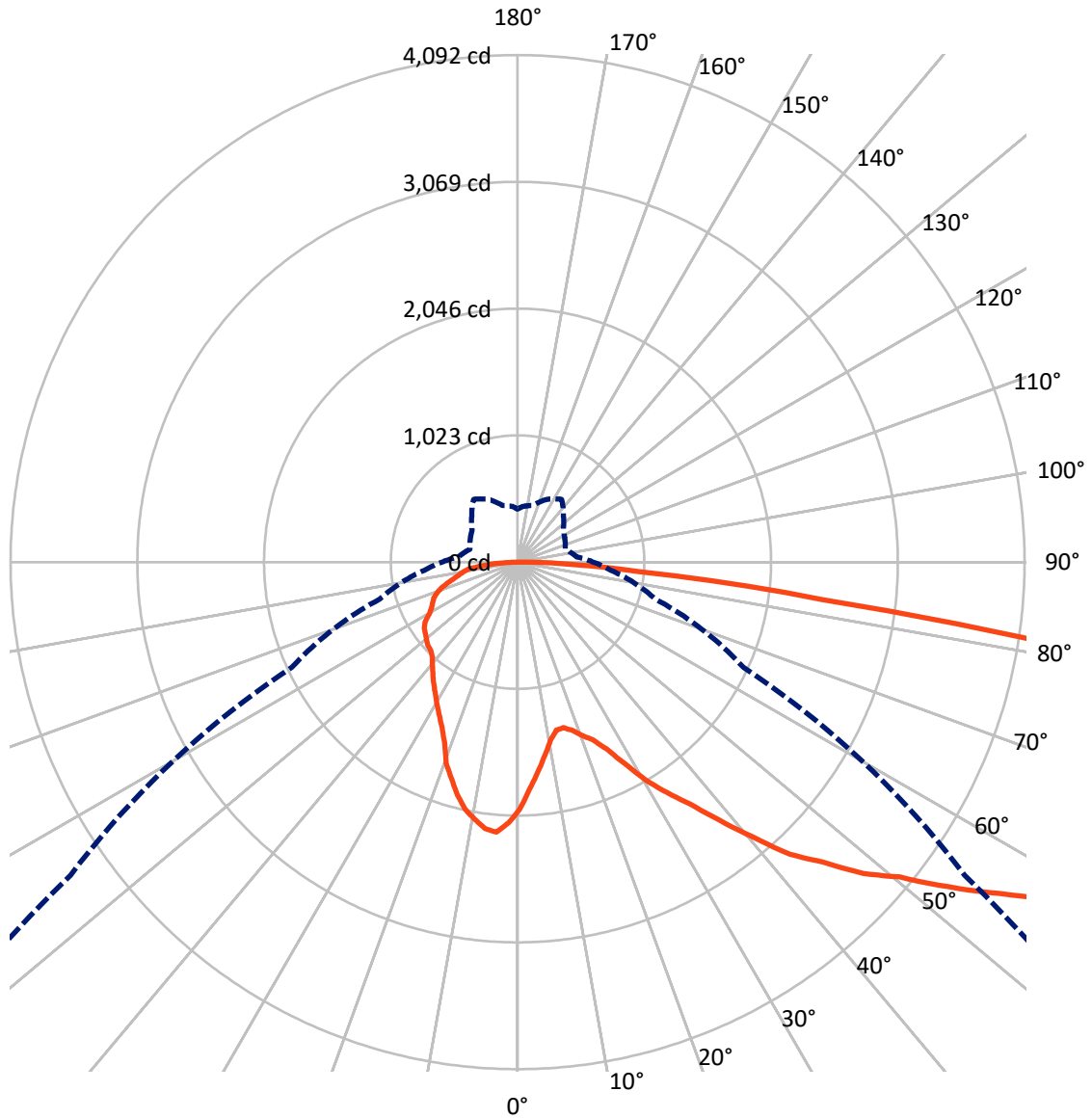
× Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P478293
CATALOG NUMBER: IFLD-M-SA4A-827-U-T4FT

Luminous Intensity Polar Plot



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

REPORT NUMBER: P478293
 CATALOG NUMBER: IFLD-M-SA4A-827-U-T4FT

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3004.3	0.0	3004.3
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	10903.6	0.0	10903.6
	% Fixture	78.4	0.0	78.4
Total	Lumens	13907.8	0.0	13907.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.0	1.3
10°-20°	515.0	3.7
20°-30°	847.6	6.1
30°-40°	1267.6	9.1
40°-50°	1879.2	13.5
50°-60°	2708.2	19.5
60°-70°	3456.0	24.8
70°-80°	2689.3	19.3
80°-90°	360.8	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°	13907.8	100.0
0°-180°	13907.8	100.0

Coefficient of Utilization



REPORT NUMBER: P478293

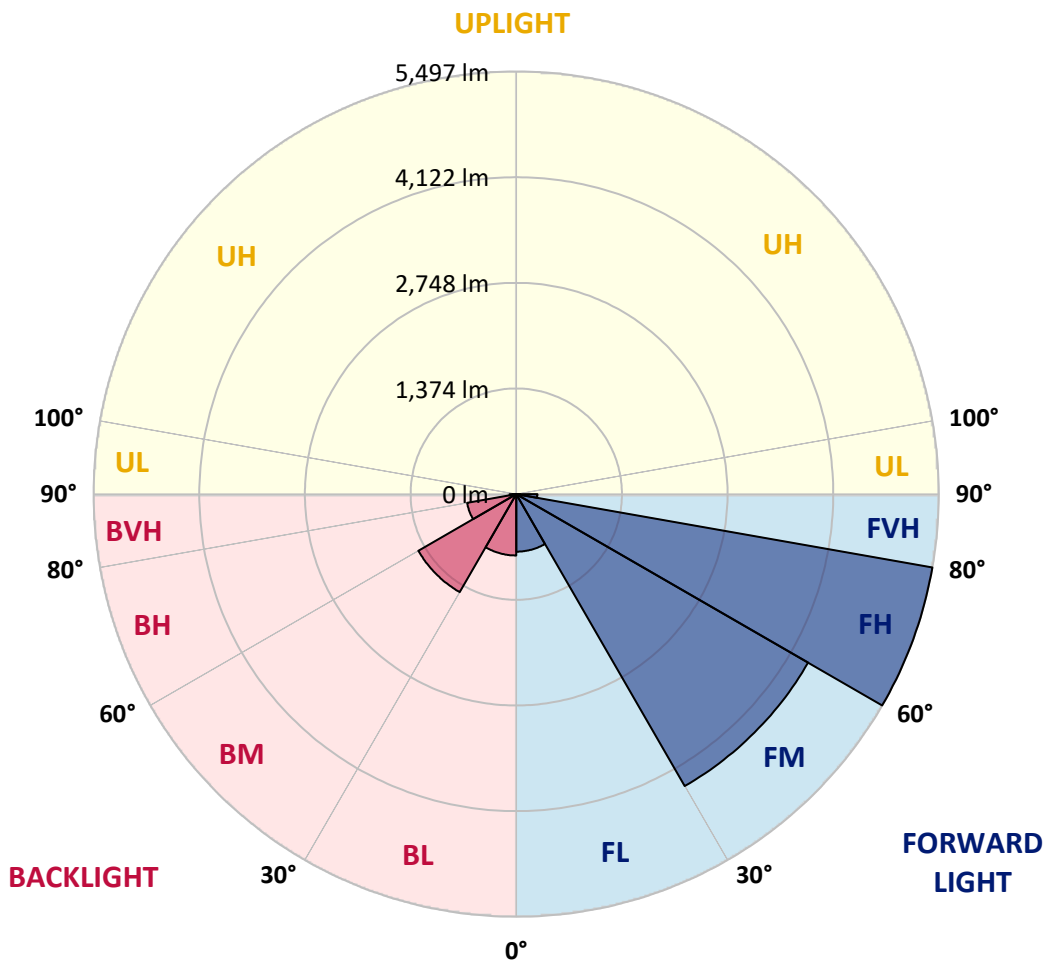
CATALOG NUMBER: IFLD-M-SA4A-827-U-T4FT

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	748.5	5.4			
FM	(30°-60°)	4383.8	31.5			
FH	(60°-80°)	5496.6	39.5			G3/7500
FVH	(80°-90°)	274.6	2.0			G3/500
BL	(0°-30°)	798.2	5.7	B2/1000		
BM	(30°-60°)	1471.2	10.6	B2/2500		
BH	(60°-80°)	648.7	4.7	B2/1000		G2/1000
BVH	(80°-90°)	86.2	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





REPORT NUMBER: P478293

CATALOG NUMBER: IFLD-M-SA4A-827-U-T4FT

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	1993.9	1993.9	1993.9	1993.9	1993.9	1993.9	1993.9	1993.9	1993.9	1993.9	1993.9
2.5°	1786.6	1792.5	1811.6	1816.0	1836.6	1824.8	1849.8	1893.9	1918.9	1955.7	1999.8
5°	1645.4	1620.4	1632.2	1677.8	1701.3	1707.2	1733.6	1808.6	1855.7	1910.1	1992.4
7.5°	1479.3	1474.8	1498.4	1527.8	1574.8	1579.2	1638.1	1704.2	1801.3	1921.9	2018.9
10°	1366.0	1385.1	1398.4	1429.3	1461.6	1461.6	1536.6	1651.3	1761.6	1877.7	2024.8
12.5°	1360.2	1348.4	1351.3	1367.5	1391.0	1420.4	1491.0	1593.9	1733.6	1868.9	2049.8
15°	1379.3	1383.7	1357.2	1377.8	1386.6	1396.9	1474.8	1591.0	1716.0	1899.8	2092.4
17.5°	1480.7	1455.7	1414.6	1395.4	1426.3	1426.3	1479.3	1570.4	1718.9	1916.0	2154.2
20°	1560.1	1560.1	1492.5	1471.9	1494.0	1489.5	1526.3	1593.9	1733.6	1948.3	2223.3
22.5°	1693.9	1713.1	1601.3	1558.7	1557.2	1569.0	1601.3	1658.6	1774.8	1993.9	2289.5
25°	1886.6	1891.0	1761.6	1717.5	1670.4	1689.5	1695.4	1752.8	1811.6	2046.8	2364.5
27.5°	2101.2	2098.3	1979.2	1868.9	1838.0	1842.5	1810.1	1848.3	1866.0	2063.0	2471.8
30°	2339.5	2313.0	2223.3	2067.4	2042.4	2014.5	1943.9	1942.4	1979.2	2154.2	2620.3
32.5°	2495.3	2461.5	2399.7	2288.0	2218.9	2221.8	2110.1	2108.6	2076.3	2254.2	2749.7
35°	2648.3	2596.8	2580.6	2465.9	2396.8	2404.2	2314.5	2302.7	2243.9	2405.6	2962.9
37.5°	2832.1	2786.5	2811.5	2724.7	2639.4	2604.1	2563.0	2548.3	2471.8	2618.8	3254.1
40°	3035.0	3020.3	3004.1	2961.5	2910.0	2912.9	2868.8	2854.1	2740.9	2876.2	3533.5
42.5°	3308.5	3252.6	3168.8	3196.7	3223.2	3251.1	3236.4	3198.2	3080.6	3137.9	3845.2
45°	3562.9	3489.3	3334.9	3343.8	3452.6	3474.6	3652.6	3648.1	3411.4	3470.2	4199.6
47.5°	3734.9	3701.1	3608.4	3598.1	3754.0	3752.5	4073.1	4073.1	3759.9	3801.1	4580.4
50°	3990.8	3902.5	3862.8	3914.3	3993.7	4048.1	4502.5	4530.4	4102.5	4146.6	5078.9
52.5°	4290.7	4180.4	4080.5	4212.8	4354.0	4389.2	4927.4	4915.7	4365.7	4548.0	5662.6
55°	4539.2	4483.4	4414.2	4490.7	4721.6	4765.7	5353.8	5245.0	4628.9	4880.4	5943.5
57.5°	4828.9	4862.7	4877.4	4858.3	5133.3	5202.4	5840.6	5528.8	4855.4	5103.9	6108.2
60°	5265.6	5286.2	5305.3	5350.9	5642.1	5739.1	6225.8	5884.7	4998.0	5233.3	6121.4
62.5°	5930.3	5850.9	5893.5	6050.8	6284.6	6394.9	6793.4	6134.6	5106.8	5311.2	5689.1
65°	6690.5	6583.1	6539.0	6741.9	7347.8	7259.5	7502.2	6321.4	4949.5	5020.1	4824.5
67.5°	7461.0	7472.7	7359.5	7766.8	8509.4	8509.4	8160.9	6411.1	4523.1	4068.7	3383.5
70°	8072.7	8109.4	8171.2	8960.8	10137.2	10315.1	8977.0	6043.5	3654.0	2708.5	1849.8
72.5°	8063.9	7953.6	8269.7	9724.0	11616.4	11467.9	9147.6	4778.9	2280.6	1326.3	848.4
73°	7883.0	7790.4	8135.9	9716.6	11676.7	11537.0	9022.6	4405.4	2011.6	1149.9	754.3
75°	6437.6	6269.9	6858.1	8800.5	10803.3	10910.6	7665.4	2873.2	1102.8	708.7	530.8
77.5°	2935.0	3008.5	3774.6	5903.8	8325.6	8452.0	5039.2	1242.5	604.3	497.0	391.1
80°	942.5	989.6	1469.0	2935.0	5218.6	5446.5	2329.2	564.6	430.8	380.8	292.6
82.5°	360.3	358.8	616.1	1220.5	2473.3	2618.8	851.4	344.1	320.6	280.9	207.3
85°	126.5	132.3	232.3	482.3	973.4	1019.0	295.6	191.2	222.0	188.2	119.1
87.5°	44.1	45.6	82.3	175.0	335.3	354.4	82.3	76.5	110.3	108.8	60.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P478293
 CATALOG NUMBER: IFLD-M-SA4A-827-U-T4FT

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1993.9	1993.9	1993.9	1993.9	1993.9	1993.9	1993.9	1993.9	1993.9	1993.9	1993.9
2.5°	2014.5	2027.7	2032.1	2085.1	2085.1	2085.1	2105.7	2105.7	2099.8	2085.1	2120.4
5°	2023.3	2046.8	2092.4	2138.0	2149.8	2160.1	2188.0	2164.5	2173.3	2158.6	2171.8
7.5°	2048.3	2080.7	2165.9	2193.9	2174.8	2196.8	2167.4	2151.2	2135.1	2141.0	2120.4
10°	2091.0	2132.1	2171.8	2223.3	2186.5	2164.5	2104.2	2089.5	2038.0	2020.4	2036.5
12.5°	2143.9	2193.9	2261.5	2242.4	2171.8	2108.6	2043.9	1982.1	1951.3	1907.2	1918.9
15°	2196.8	2254.2	2264.5	2232.1	2143.9	2064.5	1946.9	1860.1	1829.2	1789.5	1810.1
17.5°	2254.2	2308.6	2290.9	2207.1	2088.0	1967.4	1833.6	1748.3	1683.6	1658.6	1658.6
20°	2339.5	2365.9	2338.0	2165.9	2020.4	1861.6	1732.2	1635.1	1570.4	1560.1	1544.0
22.5°	2405.6	2448.3	2323.3	2105.7	1921.9	1723.3	1574.8	1538.1	1519.0	1502.8	1482.2
25°	2490.9	2489.4	2296.8	2049.8	1752.8	1558.7	1469.0	1466.0	1457.2	1451.3	1479.3
27.5°	2571.8	2538.0	2265.9	1911.6	1577.8	1433.7	1385.1	1417.5	1430.7	1421.9	1433.7
30°	2699.7	2643.8	2221.8	1764.5	1423.4	1307.2	1316.0	1360.2	1382.2	1395.4	1377.8
32.5°	2835.0	2749.7	2130.7	1611.6	1286.6	1227.8	1248.4	1294.0	1320.4	1335.2	1351.3
35°	3030.6	2832.1	2038.0	1411.6	1188.1	1179.3	1191.1	1216.0	1254.3	1264.6	1269.0
37.5°	3271.7	2957.0	1913.0	1251.3	1111.6	1121.9	1133.7	1142.5	1144.0	1163.1	1155.8
40°	3512.9	3062.9	1730.7	1098.4	1032.2	1088.1	1082.2	1066.1	1052.8	1035.2	1030.8
42.5°	3724.6	3155.5	1527.8	969.0	961.7	1052.8	1033.7	992.5	961.7	948.4	926.4
45°	3962.8	3286.4	1323.4	888.1	907.3	1010.2	1004.3	941.1	901.4	854.3	848.4
47.5°	4271.6	3423.2	1127.8	804.3	855.8	994.0	997.0	916.1	858.7	795.5	786.7
50°	4667.2	3620.2	979.3	769.0	824.9	970.5	974.9	882.3	807.3	742.6	736.7
52.5°	5046.5	3821.7	855.8	714.6	804.3	942.5	952.8	851.4	764.6	683.8	688.2
55°	5237.7	3748.1	749.9	674.9	757.3	897.0	935.2	829.3	699.9	644.0	642.6
57.5°	5280.3	3567.3	666.1	633.8	717.6	848.4	905.8	763.2	670.5	623.5	617.6
60°	5140.6	3251.1	599.9	589.6	667.6	798.4	838.1	727.9	641.1	602.9	594.1
62.5°	4796.6	2923.2	554.4	569.1	624.9	744.0	795.5	702.9	613.2	586.7	567.6
65°	3933.4	2404.2	517.6	529.4	580.8	691.1	769.0	674.9	588.2	563.2	561.7
67.5°	2724.7	1657.2	488.2	510.2	545.5	652.9	742.6	644.0	555.8	547.0	535.2
70°	1395.4	883.7	450.0	467.6	507.3	604.3	695.5	611.7	522.0	520.5	505.8
72.5°	707.3	517.6	405.8	432.3	460.2	541.1	636.7	569.1	479.4	463.2	439.7
73°	611.7	479.4	398.5	422.0	448.5	523.5	619.1	558.8	473.5	450.0	427.9
75°	445.5	377.9	357.3	380.8	401.4	472.0	560.2	511.7	435.2	410.3	389.7
77.5°	333.8	291.1	297.0	323.5	341.1	407.3	498.5	463.2	394.1	360.3	351.4
80°	245.6	222.0	245.6	270.6	283.8	358.8	454.4	401.4	332.3	294.1	286.7
82.5°	175.0	161.7	189.7	205.9	211.7	297.0	408.8	320.6	251.4	201.4	185.3
85°	100.0	98.5	127.9	126.5	130.9	173.5	269.1	213.2	161.7	123.5	120.6
87.5°	44.1	48.5	64.7	51.5	54.4	82.3	114.7	79.4	66.2	36.8	27.9
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)