

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: P478314

Luminaire Tested: **IFLD-S-SA3C-830-U-T4FT**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478314
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-830-U-T4FT
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens
Light Source: (48) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

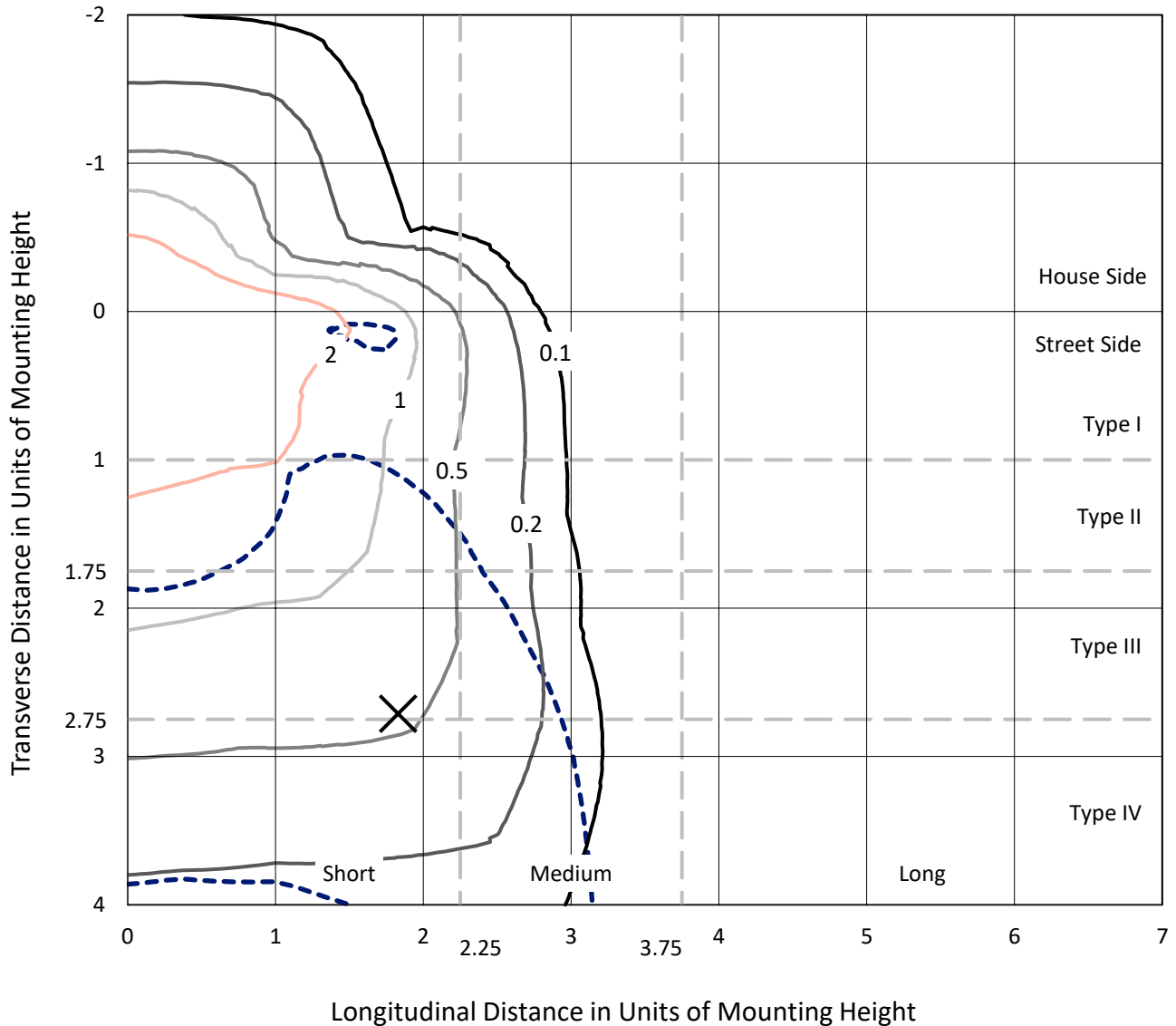
Lumens per Lamp: N/A
Luminaire Lumens: 17243.4 lumens
Efficiency: N/A
Efficacy: 107.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 160.8
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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 CATALOG NUMBER: IFLD-S-SA3C-830-U-T4FT

Iso-Footcandle Lines of Horizontal Illumination

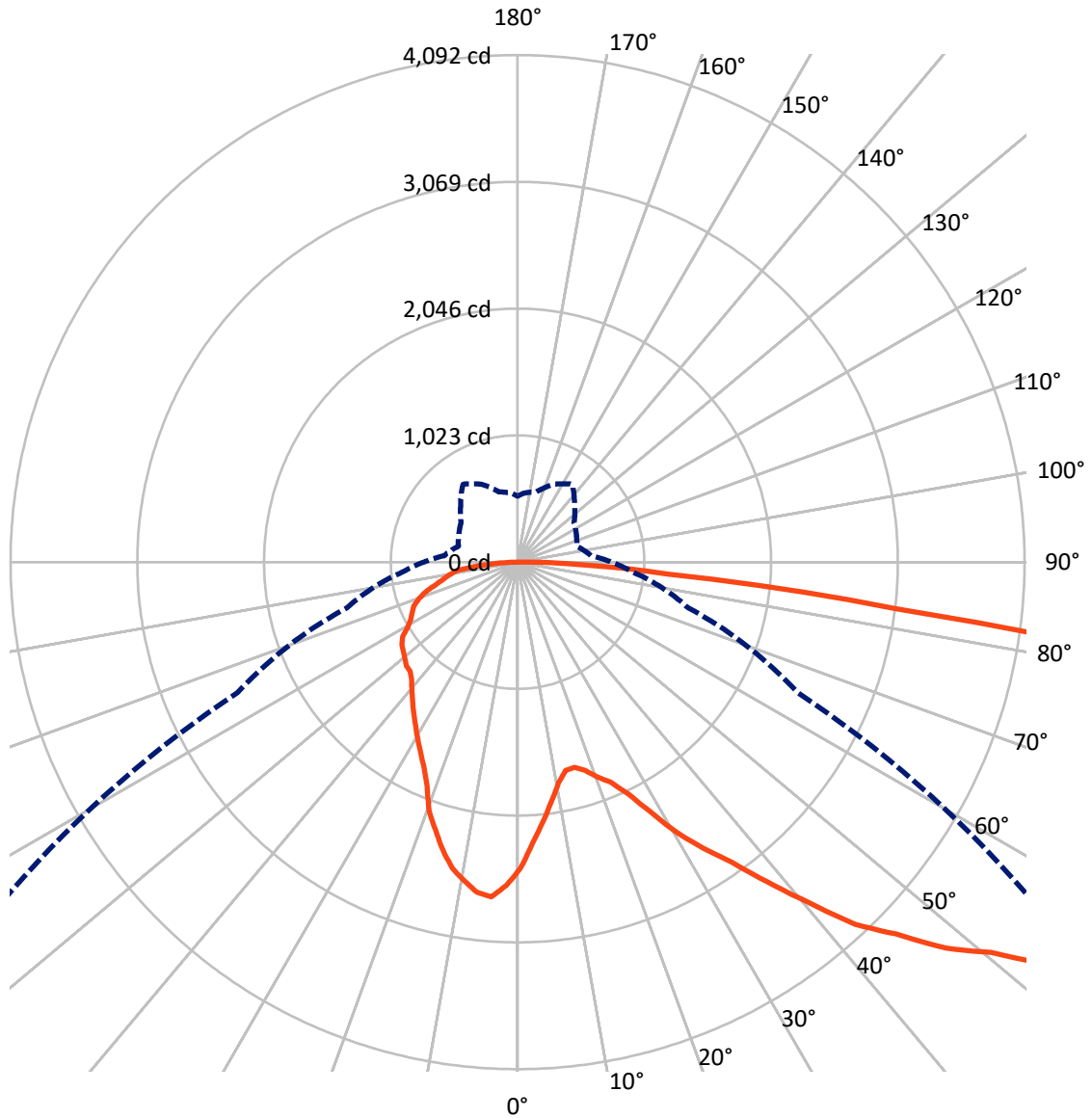
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
 Type IV - Short - N/A

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CATALOG NUMBER: IFLD-S-SA3C-830-U-T4FT

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	3724.8	0.0	3724.8
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	13518.6	0.0	13518.6
	% Fixture	78.4	0.0	78.4
Total	Lumens	17243.4	0.0	17243.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	228.2	1.3
10°-20°	638.5	3.7
20°-30°	1050.9	6.1
30°-40°	1571.7	9.1
40°-50°	2329.9	13.5
50°-60°	3357.7	19.5
60°-70°	4284.8	24.8
70°-80°	3334.3	19.3
80°-90°	447.3	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°	17243.4	100.0
0°-180°	17243.4	100.0

Coefficient of Utilization



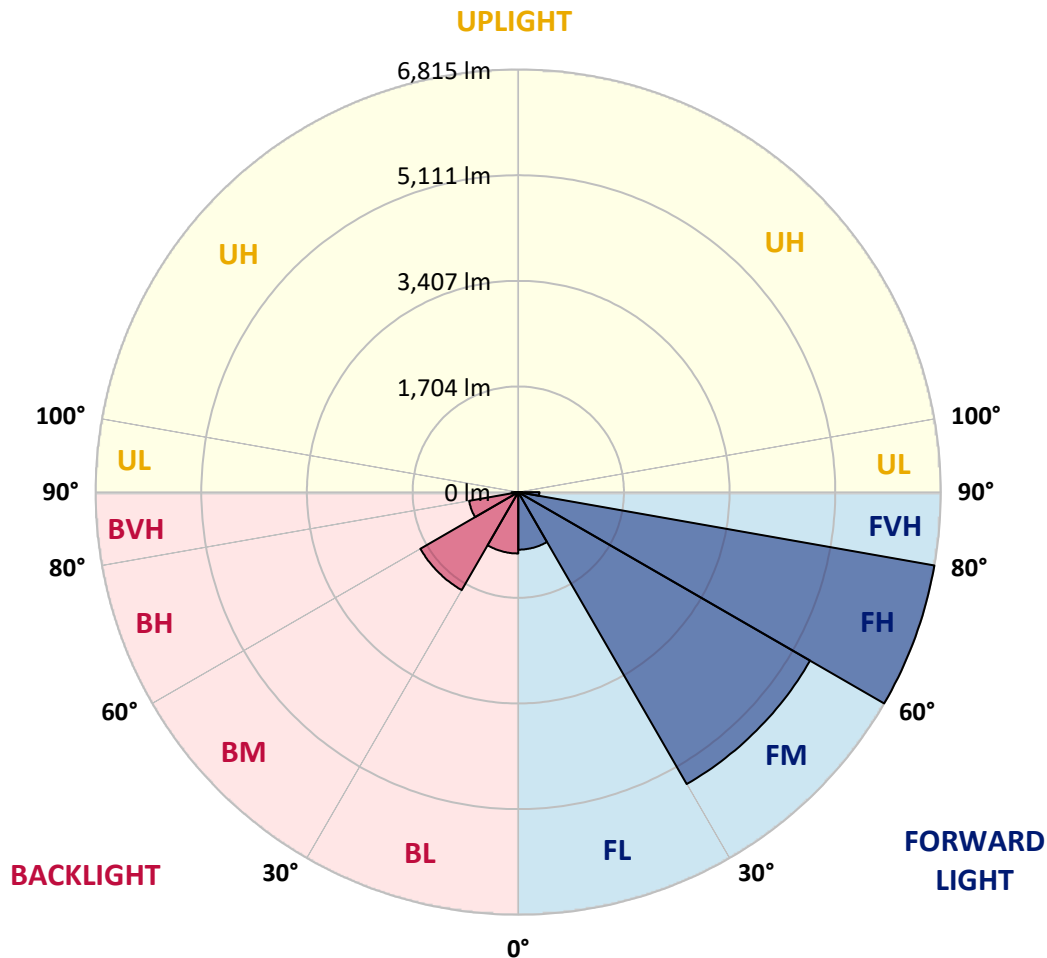
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	928.0	5.4			
FM (30°-60°)	5435.2	31.5			
FH (60°-80°)	6814.9	39.5			G3/7500
FVH (80°-90°)	340.5	2.0			G3/500
BL (0°-30°)	989.7	5.7	B2/1000		
BM (30°-60°)	1824.0	10.6	B2/2500		
BH (60°-80°)	804.3	4.7	B2/1000		G2/1000
BVH (80°-90°)	106.8	0.6			G2/225
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°	2472.1	2472.1	2472.1	2472.1	2472.1	2472.1	2472.1	2472.1	2472.1	2472.1	2472.1
2.5°	2215.1	2222.4	2246.1	2251.5	2277.0	2262.5	2293.5	2348.1	2379.1	2424.7	2479.4
5°	2040.0	2009.0	2023.6	2080.1	2109.3	2116.6	2149.4	2242.4	2300.7	2368.2	2470.3
7.5°	1834.0	1828.6	1857.7	1894.2	1952.5	1958.0	2030.9	2113.0	2233.3	2382.8	2503.1
10°	1693.7	1717.4	1733.8	1772.0	1812.2	1812.2	1905.1	2047.3	2184.1	2328.1	2510.4
12.5°	1686.4	1671.8	1675.4	1695.5	1724.6	1761.1	1848.6	1976.2	2149.4	2317.2	2541.4
15°	1710.1	1715.5	1682.7	1708.2	1719.2	1731.9	1828.6	1972.6	2127.6	2355.4	2594.3
17.5°	1835.9	1804.9	1753.8	1730.1	1768.4	1768.4	1834.0	1947.1	2131.2	2375.5	2670.8
20°	1934.3	1934.3	1850.4	1824.9	1852.3	1846.8	1892.4	1976.2	2149.4	2415.6	2756.5
22.5°	2100.2	2123.9	1985.3	1932.5	1930.7	1945.2	1985.3	2056.4	2200.5	2472.1	2838.6
25°	2339.0	2344.5	2184.1	2129.4	2071.0	2094.7	2102.0	2173.1	2246.1	2537.7	2931.5
27.5°	2605.2	2601.6	2453.9	2317.2	2278.9	2284.3	2244.2	2291.6	2313.5	2557.8	3064.6
30°	2900.5	2867.7	2756.5	2563.3	2532.3	2497.6	2410.1	2408.3	2453.9	2670.8	3248.8
32.5°	3093.8	3051.9	2975.3	2836.7	2751.0	2754.7	2616.1	2614.3	2574.2	2794.8	3409.2
35°	3283.4	3219.6	3199.5	3057.3	2971.6	2980.8	2869.5	2855.0	2782.0	2982.6	3673.5
37.5°	3511.3	3454.8	3485.8	3378.2	3272.5	3228.7	3177.7	3159.4	3064.6	3246.9	4034.5
40°	3762.9	3744.6	3724.6	3671.7	3607.9	3611.5	3556.9	3538.6	3398.2	3566.0	4380.9
42.5°	4102.0	4032.7	3928.8	3963.4	3996.2	4030.9	4012.6	3965.2	3819.4	3890.5	4767.4
45°	4417.4	4326.2	4134.8	4145.7	4280.6	4308.0	4528.6	4523.1	4229.6	4302.5	5206.8
47.5°	4630.7	4588.7	4473.9	4461.1	4654.4	4652.5	5050.0	5050.0	4661.7	4712.7	5678.9
50°	4947.9	4838.5	4789.3	4853.1	4951.5	5019.0	5582.3	5617.0	5086.4	5141.1	6297.0
52.5°	5319.8	5183.1	5059.1	5223.2	5398.2	5441.9	6109.2	6094.6	5412.8	5638.8	7020.7
55°	5627.9	5558.6	5472.9	5567.7	5854.0	5908.6	6637.9	6503.0	5739.1	6050.8	7368.9
57.5°	5987.0	6029.0	6047.2	6023.5	6364.4	6450.1	7241.3	6854.8	6019.9	6328.0	7573.1
60°	6528.5	6554.0	6577.7	6634.2	6995.2	7115.5	7719.0	7296.0	6196.7	6488.4	7589.5
62.5°	7352.5	7254.1	7307.0	7502.0	7791.9	7928.6	8422.7	7605.9	6331.6	6585.0	7053.5
65°	8295.1	8162.0	8107.3	8358.9	9110.0	9000.6	9301.4	7837.5	6136.5	6224.0	5981.6
67.5°	9250.4	9265.0	9124.6	9629.6	10550.2	10550.2	10118.2	7948.7	5607.8	5044.5	4194.9
70°	10008.8	10054.4	10130.9	11109.9	12568.4	12789.0	11130.0	7492.9	4530.4	3358.1	2293.5
72.5°	9997.8	9861.1	10253.1	12056.1	14402.4	14218.3	11341.5	5925.1	2827.6	1644.4	1051.9
73°	9773.6	9658.8	10087.2	12047.0	14477.2	14304.0	11186.5	5462.0	2494.0	1425.7	935.2
75°	7981.5	7773.7	8502.9	10911.2	13394.3	13527.4	9503.8	3562.3	1367.3	878.7	658.1
77.5°	3638.9	3730.0	4679.9	7319.7	10322.4	10479.1	6247.7	1540.5	749.3	616.2	484.9
80°	1168.6	1226.9	1821.3	3638.9	6470.2	6752.7	2887.8	700.1	534.2	472.2	362.8
82.5°	446.7	444.8	763.9	1513.2	3066.4	3246.9	1055.6	426.6	397.4	348.2	257.1
85°	156.8	164.1	288.0	598.0	1206.9	1263.4	366.4	237.0	275.3	233.4	147.7
87.5°	54.7	56.5	102.1	216.9	415.7	439.4	102.1	94.8	136.7	134.9	74.7
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°	2472.1	2472.1	2472.1	2472.1	2472.1	2472.1	2472.1	2472.1	2472.1	2472.1	2472.1
2.5°	2497.6	2514.0	2519.5	2585.1	2585.1	2585.1	2610.7	2610.7	2603.4	2585.1	2628.9
5°	2508.6	2537.7	2594.3	2650.8	2665.4	2678.1	2712.8	2683.6	2694.5	2676.3	2692.7
7.5°	2539.6	2579.7	2685.4	2720.1	2696.4	2723.7	2687.2	2667.2	2647.1	2654.4	2628.9
10°	2592.4	2643.5	2692.7	2756.5	2710.9	2683.6	2608.8	2590.6	2526.8	2504.9	2525.0
12.5°	2658.1	2720.1	2803.9	2780.2	2692.7	2614.3	2534.1	2457.5	2419.2	2364.6	2379.1
15°	2723.7	2794.8	2807.6	2767.5	2658.1	2559.6	2413.8	2306.2	2267.9	2218.7	2244.2
17.5°	2794.8	2862.3	2840.4	2736.5	2588.8	2439.3	2273.4	2167.7	2087.4	2056.4	2056.4
20°	2900.5	2933.4	2898.7	2685.4	2504.9	2308.0	2147.6	2027.3	1947.1	1934.3	1914.2
22.5°	2982.6	3035.5	2880.5	2610.7	2382.8	2136.7	1952.5	1907.0	1883.3	1863.2	1837.7
25°	3088.3	3086.5	2847.7	2541.4	2173.1	1932.5	1821.3	1817.6	1806.7	1799.4	1834.0
27.5°	3188.6	3146.7	2809.4	2370.0	1956.2	1777.5	1717.4	1757.5	1773.9	1762.9	1777.5
30°	3347.2	3277.9	2754.7	2187.7	1764.8	1620.7	1631.7	1686.4	1713.7	1730.1	1708.2
32.5°	3514.9	3409.2	2641.7	1998.1	1595.2	1522.3	1547.8	1604.3	1637.1	1655.4	1675.4
35°	3757.4	3511.3	2526.8	1750.2	1473.1	1462.1	1476.7	1507.7	1555.1	1567.9	1573.3
37.5°	4056.4	3666.2	2371.8	1551.5	1378.3	1391.0	1405.6	1416.5	1418.4	1442.1	1433.0
40°	4355.4	3797.5	2145.8	1361.9	1279.8	1349.1	1341.8	1321.7	1305.3	1283.5	1278.0
42.5°	4617.9	3912.4	1894.2	1201.4	1192.3	1305.3	1281.6	1230.6	1192.3	1175.9	1148.5
45°	4913.2	4074.6	1640.8	1101.1	1124.8	1252.5	1245.2	1166.8	1117.6	1059.2	1051.9
47.5°	5296.1	4244.2	1398.3	997.2	1061.0	1232.4	1236.1	1135.8	1064.7	986.3	975.4
50°	5786.5	4488.5	1214.2	953.5	1022.8	1203.2	1208.7	1093.9	1000.9	920.7	913.4
52.5°	6256.9	4738.2	1061.0	886.0	997.2	1168.6	1181.4	1055.6	948.0	847.7	853.2
55°	6493.9	4647.1	929.8	836.8	938.9	1112.1	1159.5	1028.2	867.8	798.5	796.7
57.5°	6546.7	4422.8	825.9	785.8	889.7	1051.9	1123.0	946.2	831.3	773.0	765.7
60°	6373.5	4030.9	743.8	731.1	827.7	989.9	1039.2	902.4	794.9	747.5	736.5
62.5°	5946.9	3624.3	687.3	705.5	774.8	922.5	986.3	871.4	760.2	727.4	703.7
65°	4876.8	2980.8	641.7	656.3	720.1	856.9	953.5	836.8	729.2	698.2	696.4
67.5°	3378.2	2054.6	605.3	632.6	676.4	809.5	920.7	798.5	689.1	678.2	663.6
70°	1730.1	1095.7	557.9	579.7	629.0	749.3	862.3	758.4	647.2	645.4	627.1
72.5°	876.9	641.7	503.2	536.0	570.6	670.9	789.4	705.5	594.3	574.3	545.1
73°	758.4	594.3	494.1	523.2	556.0	649.0	767.5	692.8	587.0	557.9	530.5
75°	552.4	468.5	443.0	472.2	497.7	585.2	694.6	634.4	539.6	508.6	483.1
77.5°	413.8	361.0	368.3	401.1	423.0	505.0	618.0	574.3	488.6	446.7	435.7
80°	304.5	275.3	304.5	335.4	351.9	444.8	563.3	497.7	412.0	364.6	355.5
82.5°	216.9	200.5	235.2	255.2	262.5	368.3	506.8	397.4	311.7	249.8	229.7
85°	124.0	122.1	158.6	156.8	162.3	215.1	333.6	264.3	200.5	153.1	149.5
87.5°	54.7	60.2	80.2	63.8	67.5	102.1	142.2	98.4	82.0	45.6	34.6
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)