

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: P478157

Luminaire Tested: **IFLD-S-SA3B-740-U-T4FT**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478157
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-740-U-T4FT
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens
Light Source: (48) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

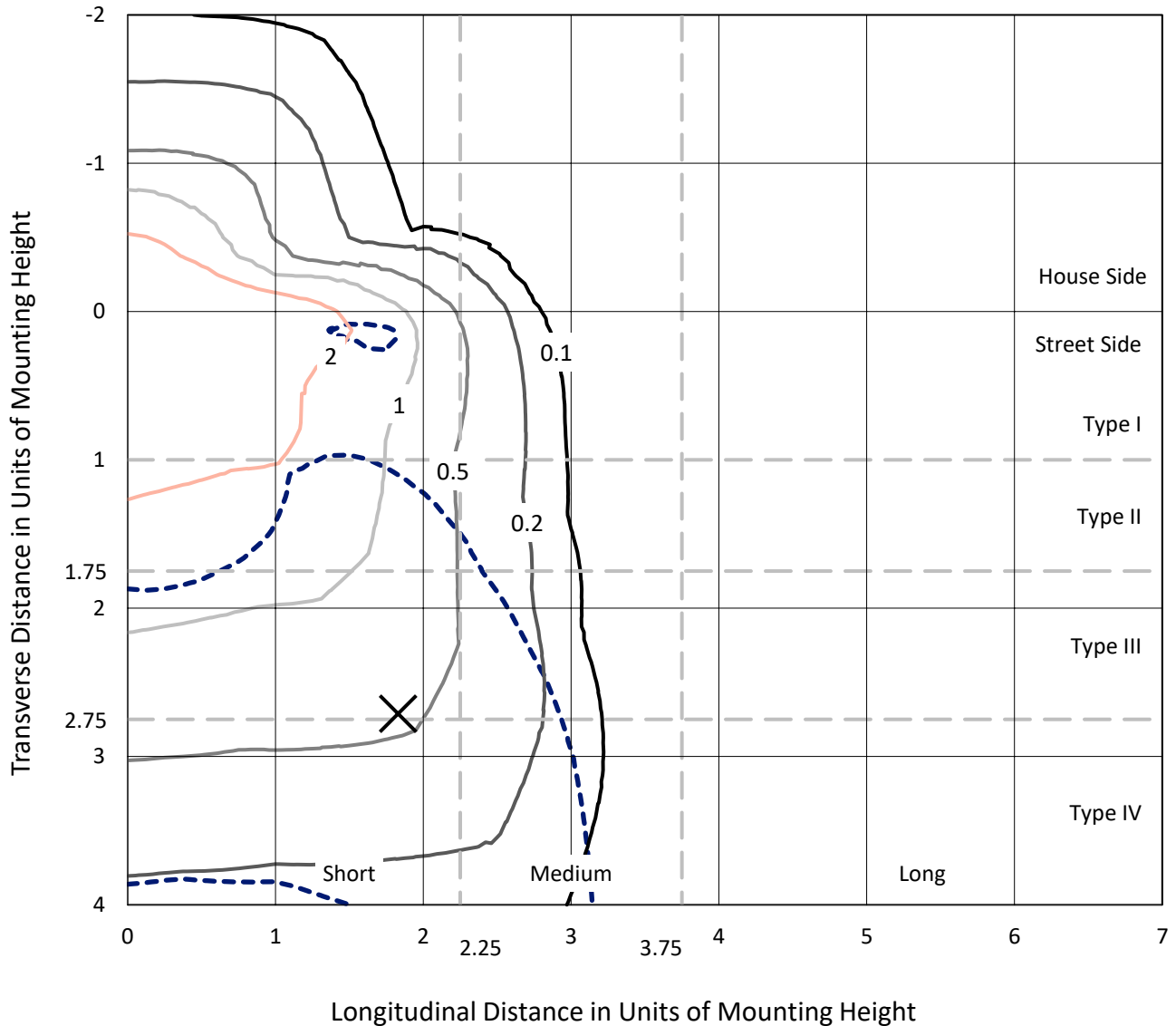
Lumens per Lamp: N/A
Luminaire Lumens: 17432.6 lumens
Efficiency: N/A
Efficacy: 142.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 122.4
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

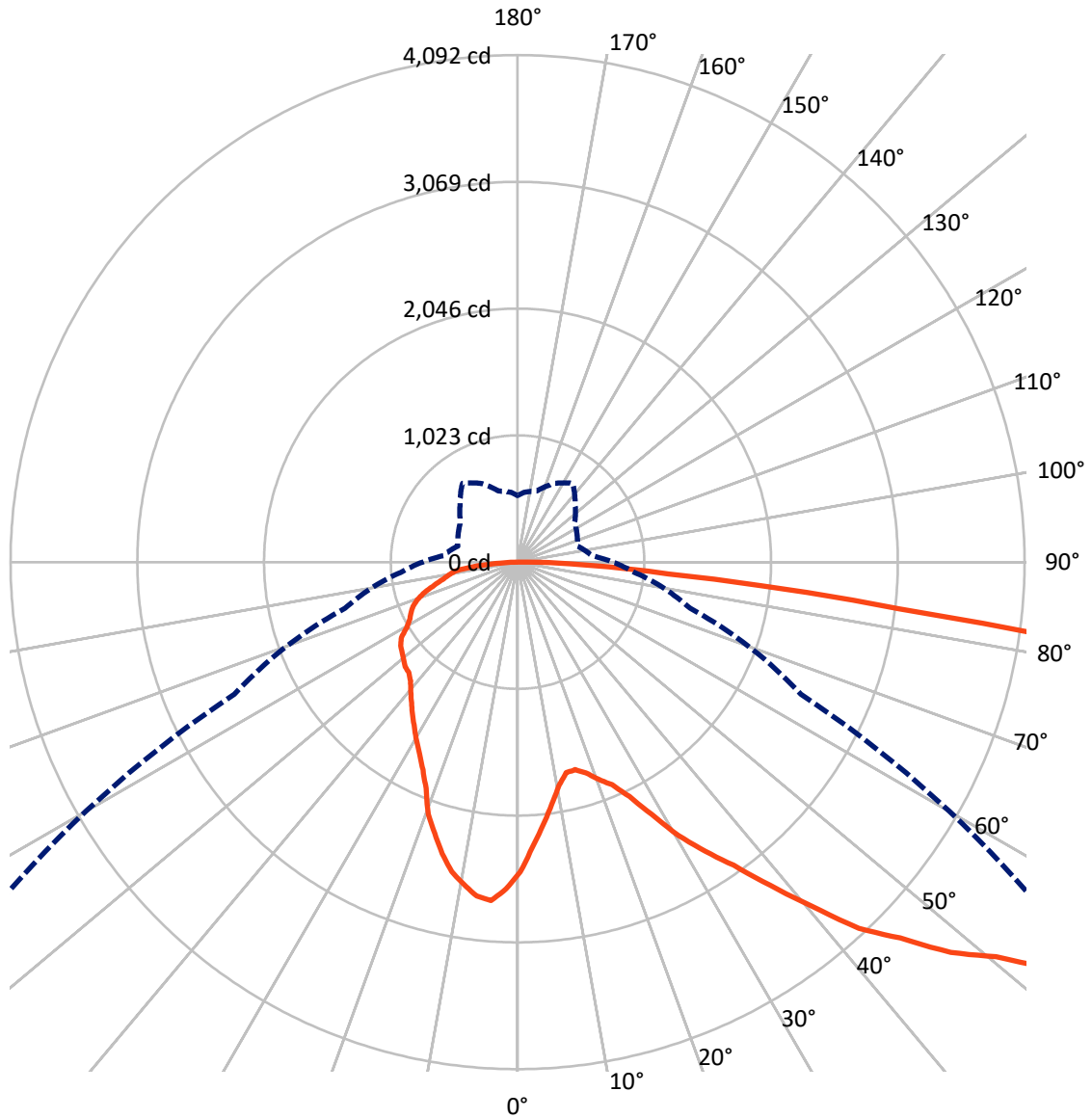
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 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	3765.7	0.0	3765.7
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	13667.0	0.0	13667.0
	% Fixture	78.4	0.0	78.4
Total	Lumens	17432.6	0.0	17432.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	230.7	1.3
10°-20°	645.5	3.7
20°-30°	1062.5	6.1
30°-40°	1588.9	9.1
40°-50°	2355.5	13.5
50°-60°	3394.5	19.5
60°-70°	4331.9	24.8
70°-80°	3370.9	19.3
80°-90°	452.2	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°	17432.6	100.0
0°-180°	17432.6	100.0

Coefficient of Utilization



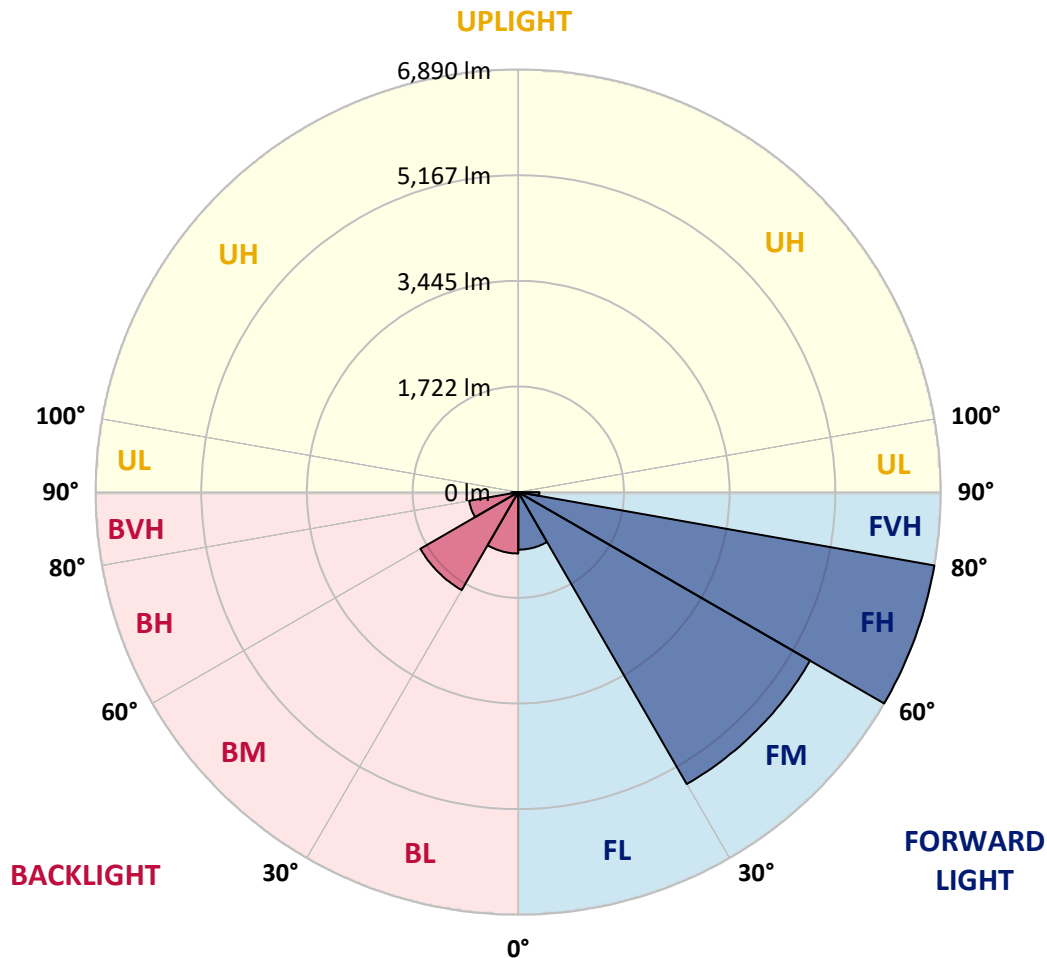
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	938.2	5.4			
FM (30°-60°)	5494.9	31.5			
FH (60°-80°)	6889.7	39.5			G3/7500
FVH (80°-90°)	344.2	2.0			G3/500
BL (0°-30°)	1000.5	5.7	B3/2500		
BM (30°-60°)	1844.1	10.6	B2/2500		
BH (60°-80°)	813.1	4.7	B2/1000		G2/1000
BVH (80°-90°)	108.0	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-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	2499.2	2499.2	2499.2	2499.2	2499.2	2499.2	2499.2	2499.2	2499.2	2499.2	2499.2
2.5°	2239.4	2246.7	2270.7	2276.2	2302.0	2287.3	2318.6	2373.9	2405.2	2451.3	2506.6
5°	2062.4	2031.1	2045.8	2103.0	2132.5	2139.8	2173.0	2267.0	2326.0	2394.2	2497.4
7.5°	1854.2	1848.6	1878.1	1915.0	1974.0	1979.5	2053.2	2136.1	2257.8	2408.9	2530.6
10°	1712.2	1736.2	1752.8	1791.5	1832.0	1832.0	1926.0	2069.8	2208.0	2353.6	2537.9
12.5°	1704.9	1690.1	1693.8	1714.1	1743.6	1780.4	1868.9	1997.9	2173.0	2342.6	2569.3
15°	1728.8	1734.4	1701.2	1727.0	1738.0	1750.9	1848.6	1994.2	2150.9	2381.3	2622.7
17.5°	1856.0	1824.7	1773.1	1749.1	1787.8	1787.8	1854.2	1968.4	2154.6	2401.6	2700.1
20°	1955.5	1955.5	1870.7	1844.9	1872.6	1867.1	1913.1	1997.9	2173.0	2442.1	2786.8
22.5°	2123.2	2147.2	2007.1	1953.7	1951.8	1966.6	2007.1	2079.0	2224.6	2499.2	2869.7
25°	2364.7	2370.2	2208.0	2152.7	2093.8	2117.7	2125.1	2197.0	2270.7	2565.6	2963.7
27.5°	2633.8	2630.1	2480.8	2342.6	2303.9	2309.4	2268.9	2316.8	2338.9	2585.9	3098.2
30°	2932.4	2899.2	2786.8	2591.4	2560.1	2525.0	2436.6	2434.7	2480.8	2700.1	3284.4
32.5°	3127.7	3085.3	3007.9	2867.9	2781.2	2784.9	2644.8	2643.0	2602.5	2825.5	3446.6
35°	3319.4	3254.9	3234.6	3090.9	3004.2	3013.5	2901.0	2886.3	2812.6	3015.3	3713.8
37.5°	3549.8	3492.7	3524.0	3415.3	3308.4	3264.1	3212.5	3194.1	3098.2	3282.6	4078.8
40°	3804.1	3785.7	3765.4	3712.0	3647.5	3651.2	3595.9	3577.4	3435.5	3605.1	4429.0
42.5°	4147.0	4076.9	3971.9	4006.9	4040.1	4075.1	4056.7	4008.7	3861.3	3933.2	4819.7
45°	4465.8	4373.7	4180.1	4191.2	4327.6	4355.2	4578.2	4572.7	4276.0	4349.7	5263.9
47.5°	4681.5	4639.1	4523.0	4510.1	4705.4	4703.6	5105.4	5105.4	4712.8	4764.4	5741.2
50°	5002.2	4891.6	4841.8	4906.3	5005.8	5074.0	5643.6	5678.6	5142.2	5197.5	6366.1
52.5°	5378.2	5239.9	5114.6	5280.5	5457.4	5501.6	6176.2	6161.5	5472.2	5700.7	7097.8
55°	5689.6	5619.6	5533.0	5628.8	5918.2	5973.5	6710.7	6574.3	5802.1	6117.2	7449.8
57.5°	6052.7	6095.1	6113.5	6089.6	6434.2	6520.9	7320.8	6930.0	6085.9	6397.4	7656.2
60°	6600.1	6625.9	6649.9	6707.0	7072.0	7193.6	7803.7	7376.1	6264.7	6559.6	7672.8
62.5°	7433.2	7333.7	7387.1	7584.3	7877.4	8015.6	8515.1	7689.4	6401.1	6657.3	7130.9
65°	8386.1	8251.5	8196.2	8450.6	9209.9	9099.4	9403.5	7923.5	6203.9	6292.3	6047.2
67.5°	9351.9	9366.6	9224.7	9735.2	10666.0	10666.0	10229.2	8035.9	5669.4	5099.8	4241.0
70°	10118.6	10164.7	10242.1	11231.8	12706.3	12929.3	11252.1	7575.1	4580.1	3395.0	2318.6
72.5°	10107.5	9969.3	10365.6	12188.4	14560.5	14374.3	11465.9	5990.1	2858.6	1662.5	1063.5
73°	9880.8	9764.7	10197.8	12179.2	14636.0	14460.9	11309.2	5521.9	2521.4	1441.3	945.5
75°	8069.1	7859.0	8596.2	11030.9	13541.2	13675.8	9608.1	3601.4	1382.3	888.4	665.4
77.5°	3678.8	3771.0	4731.2	7400.0	10435.6	10594.1	6316.3	1557.4	757.5	623.0	490.3
80°	1181.4	1240.4	1841.3	3678.8	6541.1	6826.8	2919.5	707.7	540.0	477.4	366.8
82.5°	451.6	449.7	772.3	1529.8	3100.1	3282.6	1067.2	431.3	401.8	352.0	259.9
85°	158.5	165.9	291.2	604.5	1220.1	1277.3	370.5	239.6	278.3	235.9	149.3
87.5°	55.3	57.1	103.2	219.3	420.2	444.2	103.2	95.8	138.2	136.4	75.6
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°	2499.2	2499.2	2499.2	2499.2	2499.2	2499.2	2499.2	2499.2	2499.2	2499.2	2499.2
2.5°	2525.0	2541.6	2547.2	2613.5	2613.5	2613.5	2639.3	2639.3	2631.9	2613.5	2657.7
5°	2536.1	2565.6	2622.7	2679.9	2694.6	2707.5	2742.5	2713.0	2724.1	2705.7	2722.3
7.5°	2567.4	2608.0	2714.9	2749.9	2725.9	2753.6	2716.7	2696.4	2676.2	2683.5	2657.7
10°	2620.9	2672.5	2722.3	2786.8	2740.7	2713.0	2637.5	2619.0	2554.5	2532.4	2552.7
12.5°	2687.2	2749.9	2834.7	2810.7	2722.3	2643.0	2561.9	2484.5	2445.8	2390.5	2405.2
15°	2753.6	2825.5	2838.4	2797.8	2687.2	2587.7	2440.3	2331.5	2292.8	2243.0	2268.9
17.5°	2825.5	2893.7	2871.5	2766.5	2617.2	2466.1	2298.3	2191.4	2110.3	2079.0	2079.0
20°	2932.4	2965.5	2930.5	2714.9	2532.4	2333.4	2171.2	2049.5	1968.4	1955.5	1935.3
22.5°	3015.3	3068.8	2912.1	2639.3	2408.9	2160.1	1974.0	1927.9	1903.9	1883.6	1857.8
25°	3122.2	3120.4	2878.9	2569.3	2197.0	1953.7	1841.3	1837.6	1826.5	1819.1	1854.2
27.5°	3223.6	3181.2	2840.2	2396.0	1977.6	1797.0	1736.2	1776.7	1793.3	1782.3	1797.0
30°	3383.9	3313.9	2784.9	2211.7	1784.1	1638.5	1649.6	1704.9	1732.5	1749.1	1727.0
32.5°	3553.5	3446.6	2670.6	2020.0	1612.7	1539.0	1564.8	1621.9	1655.1	1673.5	1693.8
35°	3798.6	3549.8	2554.5	1769.4	1489.2	1478.2	1492.9	1524.2	1572.2	1585.1	1590.6
37.5°	4100.9	3706.5	2397.9	1568.5	1393.4	1406.3	1421.0	1432.1	1433.9	1457.9	1448.7
40°	4403.2	3839.2	2169.3	1376.8	1293.9	1363.9	1356.5	1336.2	1319.7	1297.5	1292.0
42.5°	4668.6	3955.3	1915.0	1214.6	1205.4	1319.7	1295.7	1244.1	1205.4	1188.8	1161.2
45°	4967.1	4119.3	1658.8	1113.2	1137.2	1266.2	1258.8	1179.6	1129.8	1070.8	1063.5
47.5°	5354.2	4290.7	1413.7	1008.2	1072.7	1245.9	1249.6	1148.2	1076.4	997.1	986.1
50°	5850.0	4537.7	1227.5	963.9	1034.0	1216.4	1222.0	1105.9	1011.9	930.8	923.4
52.5°	6325.5	4790.2	1072.7	895.7	1008.2	1181.4	1194.3	1067.2	958.4	857.0	862.6
55°	6565.1	4698.1	940.0	846.0	949.2	1124.3	1172.2	1039.5	877.3	807.3	805.4
57.5°	6618.6	4471.4	834.9	794.4	899.4	1063.5	1135.3	956.6	840.5	781.5	774.1
60°	6443.5	4075.1	752.0	739.1	836.8	1000.8	1050.6	912.3	803.6	755.7	744.6
62.5°	6012.2	3664.1	694.8	713.3	783.3	932.6	997.1	881.0	768.6	735.4	711.4
65°	4930.3	3013.5	648.8	663.5	728.0	866.3	963.9	846.0	737.2	705.9	704.1
67.5°	3415.3	2077.2	611.9	639.6	683.8	818.3	930.8	807.3	696.7	685.6	670.9
70°	1749.1	1107.7	564.0	586.1	635.9	757.5	871.8	766.7	654.3	652.5	634.0
72.5°	886.5	648.8	508.7	541.9	576.9	678.3	798.1	713.3	600.8	580.6	551.1
73°	766.7	600.8	499.5	529.0	562.1	656.1	775.9	700.4	593.5	564.0	536.3
75°	558.5	473.7	447.9	477.4	503.2	591.6	702.2	641.4	545.6	514.2	488.4
77.5°	418.4	364.9	372.3	405.5	427.6	510.5	624.8	580.6	493.9	451.6	440.5
80°	307.8	278.3	307.8	339.1	355.7	449.7	569.5	503.2	416.5	368.6	359.4
82.5°	219.3	202.7	237.8	258.0	265.4	372.3	512.4	401.8	315.2	252.5	232.2
85°	125.3	123.5	160.3	158.5	164.0	217.5	337.3	267.2	202.7	154.8	151.1
87.5°	55.3	60.8	81.1	64.5	68.2	103.2	143.8	99.5	82.9	46.1	35.0
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)