

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: P478584

Luminaire Tested: **IFLD-S-SA2E-750-U-T4W**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478584
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2E-750-U-T4W
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (32) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

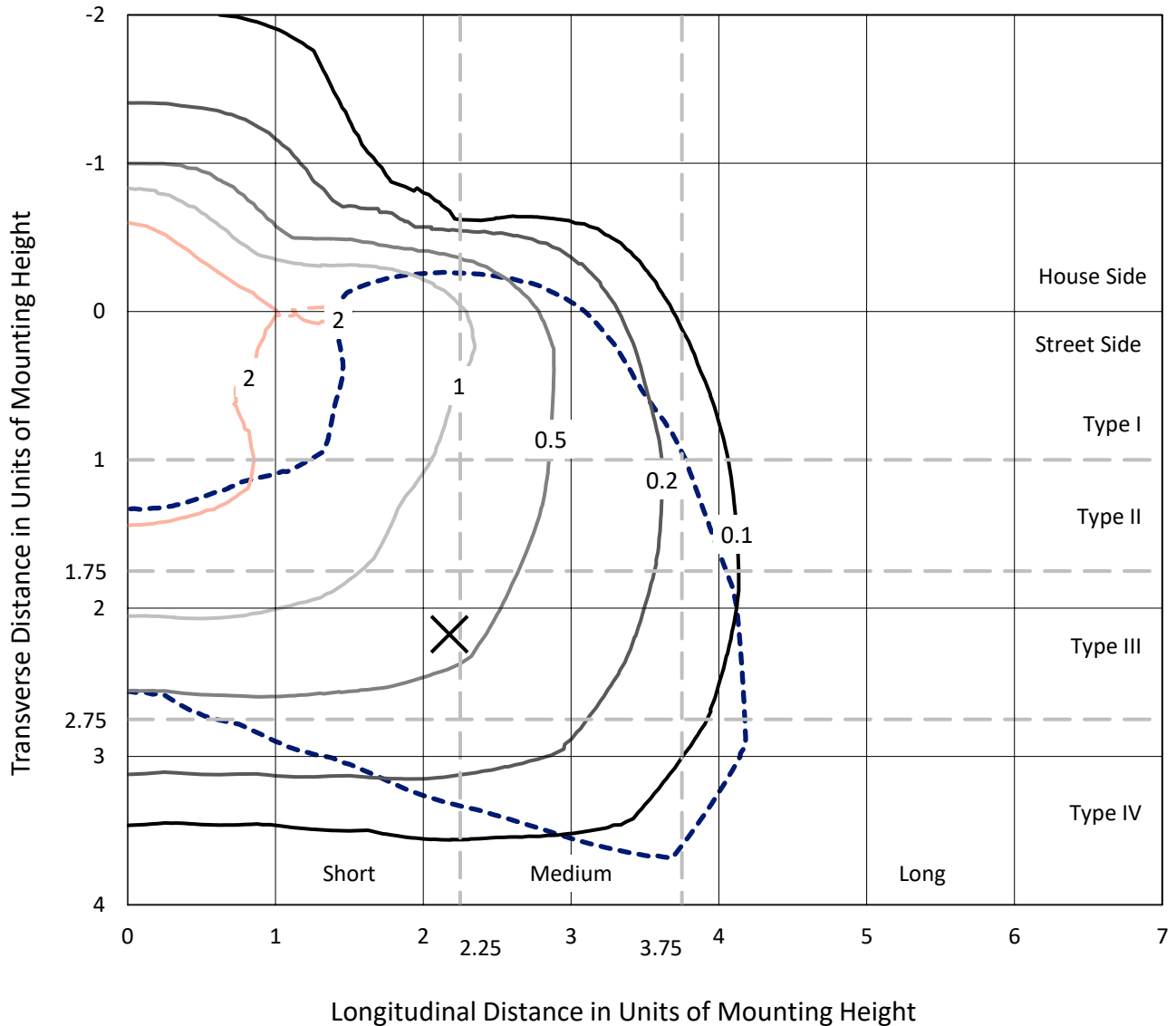
Lumens per Lamp: N/A
Luminaire Lumens: 18713.4 lumens
Efficiency: N/A
Efficacy: 119.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 156.2
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

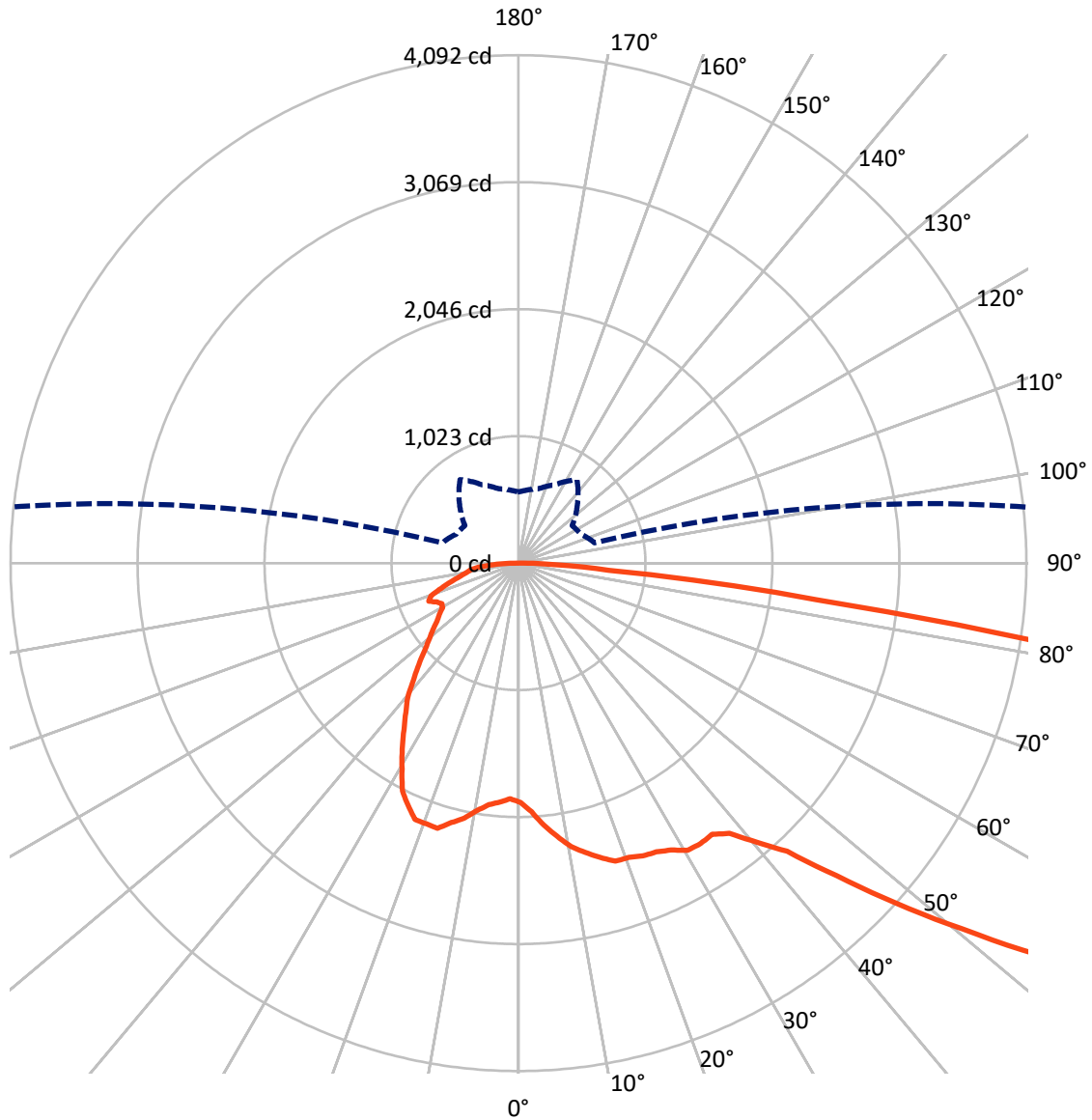
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4165.7	0.0	4165.7
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	14547.7	0.0	14547.7
	% Fixture	77.7	0.0	77.7
Total	Lumens	18713.4	0.0	18713.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.2	1.1
10°-20°	656.1	3.5
20°-30°	1108.0	5.9
30°-40°	1533.2	8.2
40°-50°	2193.2	11.7
50°-60°	3537.3	18.9
60°-70°	5217.0	27.9
70°-80°	3788.5	20.2
80°-90°	482.9	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°	18713.4	100.0
0°-180°	18713.4	100.0

Coefficient of Utilization



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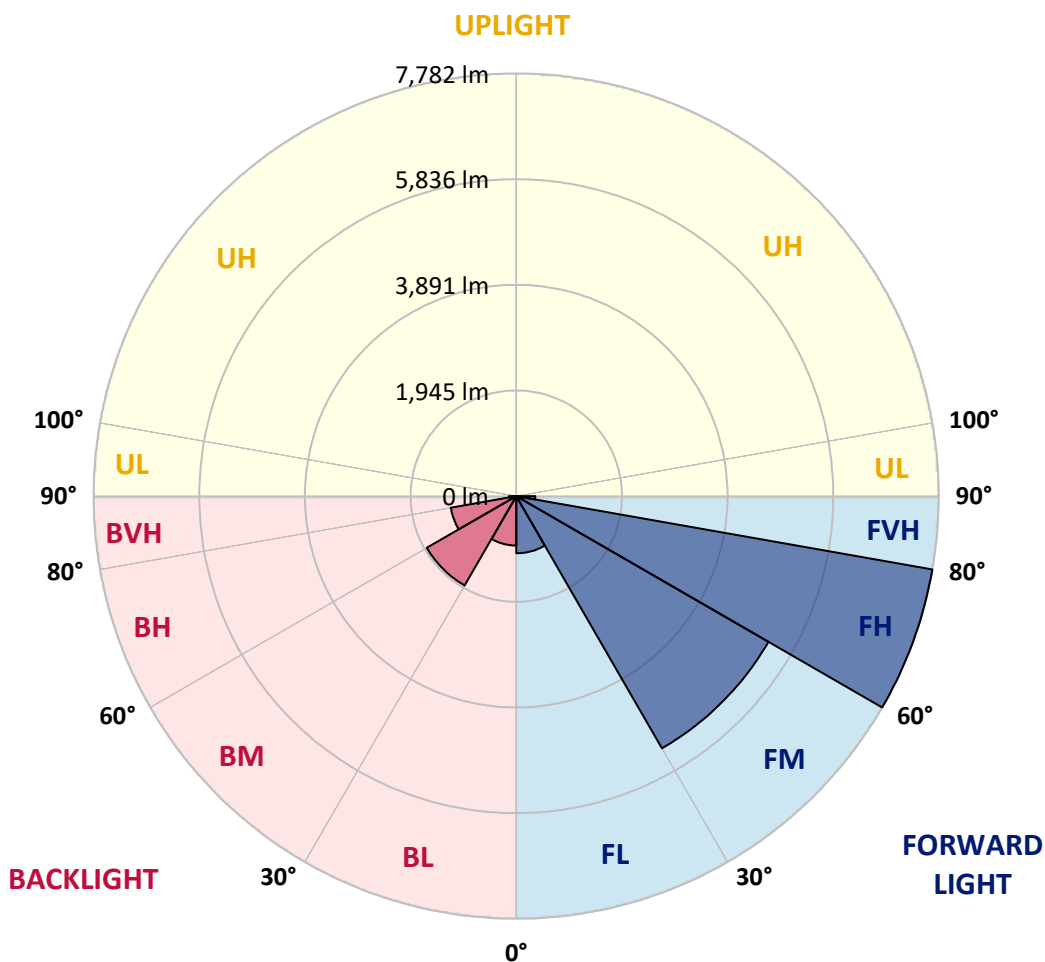
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1051.7	5.6			
FM (30°-60°)	5362.6	28.7			
FH (60°-80°)	7781.9	41.6			G4/12000
FVH (80°-90°)	351.5	1.9			G3/500
BL (0°-30°)	909.6	4.9	B2/1000		
BM (30°-60°)	1901.1	10.2	B2/2500		
BH (60°-80°)	1223.6	6.5	B3/2500		G3/2500
BVH (80°-90°)	131.4	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1927.1	1927.1	1927.1	1927.1	1927.1	1927.1	1927.1	1927.1	1927.1	1927.1	1927.1
2.5°	2030.1	2042.2	2030.1	2028.0	2007.9	1993.7	2005.8	1987.7	1967.5	1959.4	1941.3
5°	2215.7	2217.7	2195.5	2197.5	2155.2	2110.8	2118.8	2064.4	2005.8	1983.6	1947.3
7.5°	2405.4	2383.2	2350.9	2340.8	2274.2	2225.8	2219.7	2171.3	2080.5	2030.1	1979.6
10°	2528.5	2536.6	2484.1	2439.7	2383.2	2324.7	2322.7	2231.9	2179.4	2104.7	2040.1
12.5°	2637.5	2639.5	2595.1	2524.5	2453.8	2381.2	2391.3	2350.9	2262.1	2191.5	2126.9
15°	2722.2	2710.1	2661.7	2597.1	2522.4	2465.9	2459.9	2425.6	2350.9	2292.4	2185.4
17.5°	2746.4	2740.4	2691.9	2623.3	2550.7	2508.3	2524.5	2468.0	2437.7	2385.2	2282.3
20°	2700.0	2685.9	2677.8	2601.1	2548.7	2544.6	2530.5	2542.6	2492.2	2443.7	2369.1
22.5°	2615.3	2609.2	2605.2	2544.6	2520.4	2538.6	2562.8	2581.0	2572.9	2526.5	2441.7
25°	2528.5	2556.7	2530.5	2502.3	2536.6	2583.0	2576.9	2635.4	2635.4	2621.3	2550.7
27.5°	2589.0	2570.9	2550.7	2536.6	2548.7	2621.3	2617.3	2687.9	2714.1	2687.9	2607.2
30°	2740.4	2722.2	2663.7	2601.1	2585.0	2663.7	2683.9	2746.4	2758.5	2694.0	2625.4
32.5°	3024.9	3014.8	2922.0	2738.4	2639.5	2683.9	2694.0	2764.6	2754.5	2714.1	2685.9
35°	3446.7	3412.4	3283.2	2972.4	2754.5	2710.1	2683.9	2740.4	2778.7	2758.5	2732.3
37.5°	3908.8	3870.4	3711.0	3317.5	2962.4	2780.7	2760.6	2807.0	2851.4	2841.3	2786.8
40°	4350.7	4350.7	4207.4	3749.4	3271.1	2952.3	2956.3	2903.8	2944.2	2926.0	2936.1
42.5°	4786.6	4770.4	4711.9	4255.9	3602.0	3238.8	3174.2	3043.1	3115.7	3109.7	3123.8
45°	5228.5	5216.4	5200.3	4728.1	4076.3	3626.3	3592.0	3355.9	3422.4	3394.2	3454.7
47.5°	5581.7	5595.8	5595.8	5254.7	4582.8	4142.9	4092.4	3719.1	3846.2	3860.3	3874.5
50°	5882.3	5888.4	5882.3	5757.2	5147.8	4734.1	4631.2	4251.8	4379.0	4489.9	4619.1
52.5°	6298.0	6306.1	6277.8	6229.4	5914.6	5355.6	5240.6	4818.9	5079.2	5196.2	5428.3
55°	6810.6	6750.0	6697.6	6733.9	6651.2	6039.7	5920.7	5404.1	5795.6	5950.9	6415.1
57.5°	6905.4	6957.9	7091.1	7379.6	7498.7	6705.7	6637.0	6122.5	6604.8	6740.0	7514.8
60°	7240.4	7153.6	7480.5	8106.1	8239.3	7573.4	7502.7	6909.5	7409.9	7551.2	8529.9
62.5°	7460.4	7456.3	7940.6	8683.2	8985.9	8473.4	8330.1	7932.6	8279.7	8416.9	9635.7
65°	7395.8	7454.3	8314.0	9022.3	9609.5	9496.5	9413.7	8812.4	9270.5	9258.4	10356.1
67.5°	6806.5	6972.0	8077.9	9266.4	10537.7	10743.6	10717.3	10049.4	10075.6	9819.3	10677.0
70°	5989.3	5932.8	7079.0	9012.2	11001.9	12222.7	12216.7	10969.6	10800.1	9942.4	9756.8
72°	4600.9	4538.4	5480.8	7738.8	10757.7	12814.0	12995.6	11607.3	10792.0	9431.9	8059.7
72.5°	4177.2	4122.7	5061.0	7284.8	10487.3	12967.4	12882.6	11631.5	10707.2	9191.8	7529.0
75°	1923.1	1860.6	2528.5	4459.7	8180.8	11490.2	11778.8	10884.8	9351.2	7317.1	4510.1
77.5°	573.1	554.9	813.2	1800.0	4754.3	8465.3	8576.3	8213.1	6528.1	4007.7	1672.9
80°	318.8	320.9	419.7	674.0	2090.6	4893.5	5293.1	5073.1	3202.5	1323.8	557.0
82.5°	177.6	187.7	262.3	399.6	960.5	2246.0	2417.5	2330.7	1158.3	621.5	304.7
85°	92.8	96.9	137.2	213.9	544.8	710.3	730.5	783.0	601.3	423.8	163.5
87.5°	36.3	36.3	50.4	88.8	201.8	220.0	197.8	240.1	345.1	274.4	80.7
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°	1927.1	1927.1	1927.1	1927.1	1927.1	1927.1	1927.1	1927.1	1927.1	1927.1	1927.1
2.5°	1957.4	1941.3	1939.3	1913.0	1921.1	1898.9	1900.9	1896.9	1898.9	1894.9	1884.8
5°	1947.3	1935.2	1900.9	1923.1	1902.9	1931.2	1953.4	1945.3	1951.4	1949.3	1951.4
7.5°	1961.4	1945.3	1941.3	1929.2	1947.3	1959.4	1977.6	2028.0	2024.0	2030.1	2042.2
10°	2003.8	1985.7	1973.6	1991.7	1981.6	2020.0	2040.1	2066.4	2112.8	2114.8	2090.6
12.5°	2086.6	2074.5	2050.2	2054.3	2088.6	2100.7	2112.8	2128.9	2159.2	2153.2	2175.4
15°	2181.4	2155.2	2141.0	2137.0	2145.1	2159.2	2157.2	2173.3	2189.5	2203.6	2197.5
17.5°	2250.0	2215.7	2219.7	2239.9	2237.9	2233.9	2207.6	2199.6	2207.6	2215.7	2211.7
20°	2320.6	2324.7	2294.4	2276.2	2268.2	2227.8	2207.6	2183.4	2159.2	2171.3	2189.5
22.5°	2409.4	2391.3	2346.9	2292.4	2252.0	2227.8	2165.3	2122.9	2122.9	2135.0	2128.9
25°	2510.3	2472.0	2395.3	2296.4	2246.0	2143.1	2098.7	2092.6	2076.5	2094.6	2102.7
27.5°	2589.0	2554.7	2449.8	2282.3	2143.1	2060.3	2034.1	2026.0	2052.3	2054.3	2086.6
30°	2621.3	2611.2	2457.9	2246.0	2038.1	1904.9	1888.8	1925.1	1953.4	1995.8	1997.8
32.5°	2663.7	2667.7	2470.0	2161.2	1900.9	1767.7	1743.5	1787.9	1868.6	1902.9	1929.2
35°	2734.3	2754.5	2459.9	2056.3	1755.6	1628.5	1624.5	1636.6	1715.3	1775.8	1810.1
37.5°	2857.4	2853.4	2457.9	1931.2	1640.6	1507.4	1475.1	1479.2	1531.6	1582.1	1576.0
40°	3022.9	3006.7	2451.8	1767.7	1491.3	1404.5	1350.0	1329.8	1325.8	1311.7	1315.7
42.5°	3248.9	3216.6	2449.8	1602.3	1356.1	1263.2	1224.9	1172.4	1134.1	1061.4	1065.5
45°	3563.7	3507.2	2397.3	1446.9	1222.9	1146.2	1087.7	1049.3	966.6	875.8	875.8
47.5°	4050.0	3866.4	2399.3	1275.3	1093.7	1031.2	990.8	924.2	835.4	762.8	754.7
50°	4766.4	4346.7	2330.7	1140.1	988.8	946.4	904.0	827.4	742.6	692.2	698.2
52.5°	5690.6	5063.0	2328.7	1019.1	906.1	875.8	829.4	760.8	698.2	665.9	653.8
55°	6792.4	6011.5	2401.4	920.2	821.3	805.2	785.0	728.5	667.9	639.7	637.7
57.5°	7920.5	6937.7	2518.4	849.6	748.7	760.8	746.6	702.2	653.8	621.5	617.5
60°	8923.4	7672.2	2282.3	764.8	684.1	710.3	730.5	692.2	665.9	663.9	649.8
62.5°	9680.1	7987.0	1735.4	700.2	649.8	698.2	752.7	776.9	764.8	780.9	783.0
65°	9956.6	7797.4	1194.6	665.9	623.5	726.5	847.5	839.5	768.8	738.6	754.7
67.5°	9569.1	7028.5	885.9	625.6	605.4	785.0	902.0	801.1	694.2	690.1	678.0
70°	8229.2	5957.0	722.4	583.2	575.1	752.7	877.8	742.6	653.8	627.6	615.5
72°	6556.3	4639.3	633.6	552.9	526.7	672.0	821.3	696.2	619.5	587.2	573.1
72.5°	5985.2	4300.3	621.5	538.8	516.6	653.8	793.1	682.1	611.4	583.2	561.0
75°	3283.2	2201.6	546.9	494.4	435.9	565.0	734.5	639.7	577.1	536.8	532.7
77.5°	1220.9	853.6	472.2	437.9	377.4	488.3	667.9	607.4	524.7	474.2	464.1
80°	468.2	450.0	385.4	369.3	316.8	427.8	615.5	544.8	446.0	395.5	379.4
82.5°	284.5	262.3	292.6	288.6	242.2	389.5	579.2	510.5	395.5	320.9	310.8
85°	155.4	155.4	203.8	195.7	169.5	310.8	437.9	339.0	250.2	205.8	209.9
87.5°	68.6	80.7	109.0	102.9	92.8	175.6	213.9	179.6	125.1	84.8	90.8
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)