

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: P478704

Luminaire Tested: **IFLD-S-SA3C-830-U-T4W**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478704
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-T4W
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (48) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

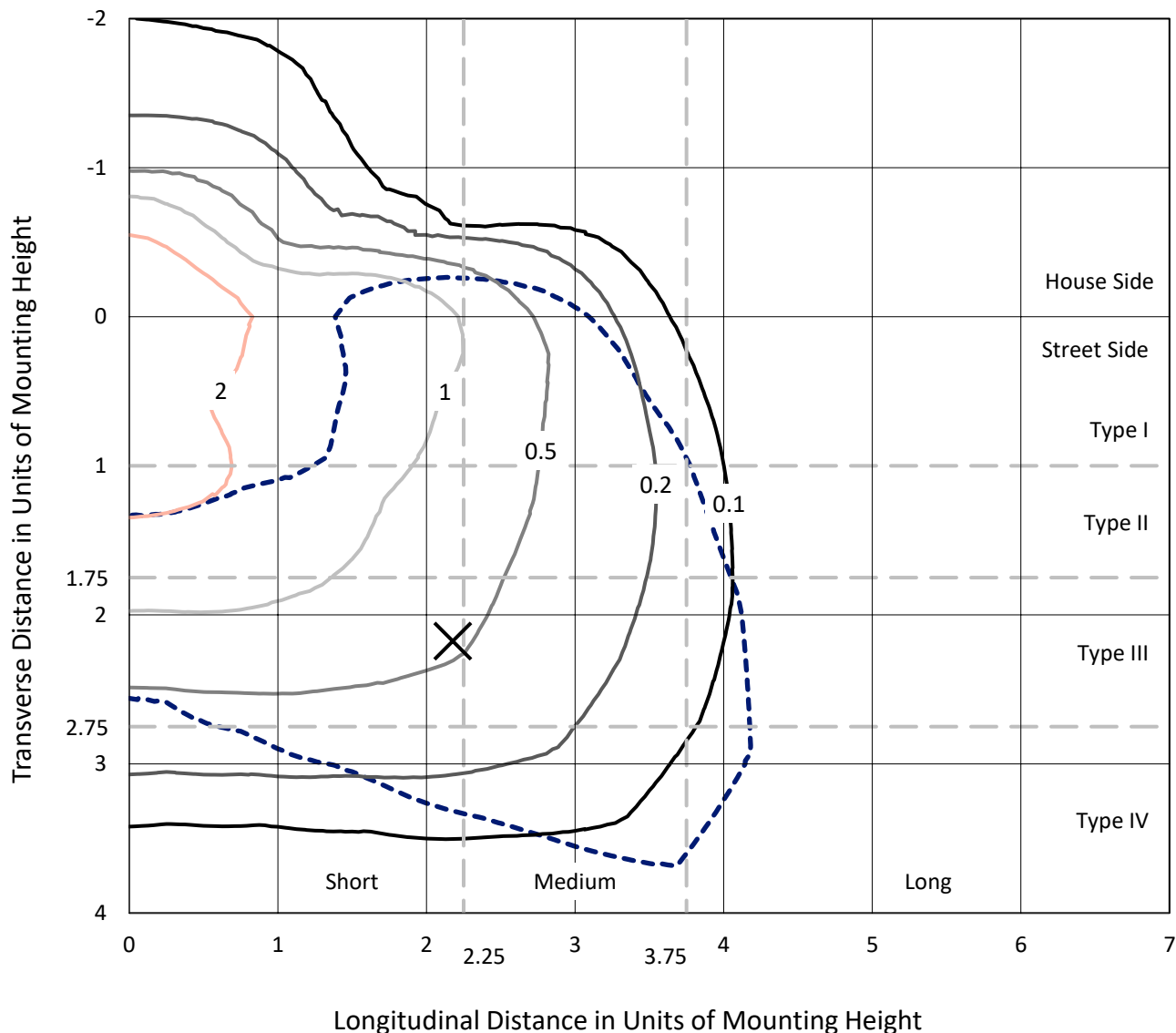
Lumens per Lamp: N/A
Luminaire Lumens: 17012.6 lumens
Efficiency: N/A
Efficacy: 105.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 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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Iso-Footcandle Lines of Horizontal Illumination

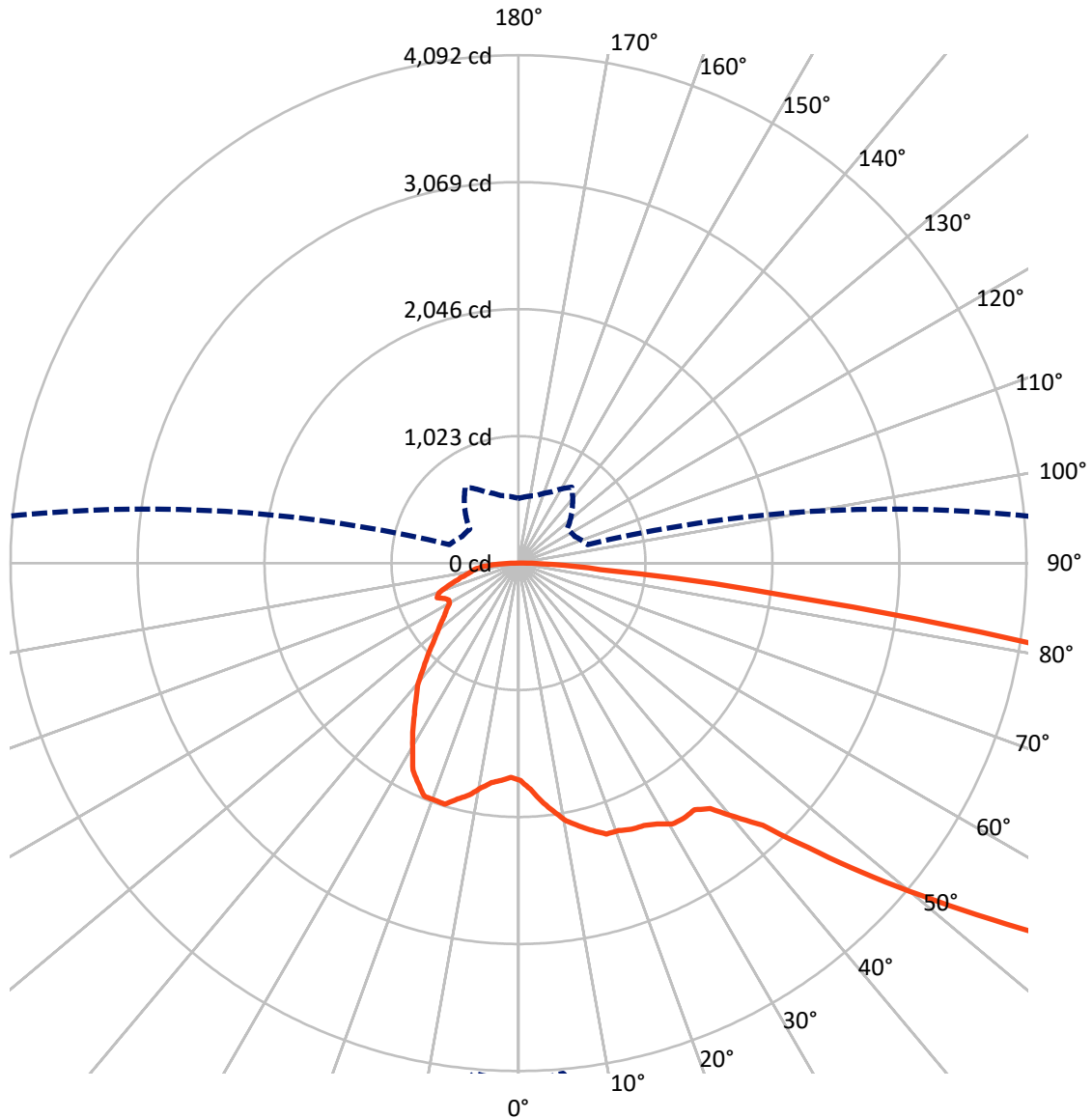
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 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	3787.1	0.0	3787.1
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	13225.5	0.0	13225.5
	% Fixture	77.7	0.0	77.7
Total	Lumens	17012.6	0.0	17012.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.3	1.1
10°-20°	596.5	3.5
20°-30°	1007.3	5.9
30°-40°	1393.9	8.2
40°-50°	1993.8	11.7
50°-60°	3215.8	18.9
60°-70°	4742.9	27.9
70°-80°	3444.2	20.2
80°-90°	439.0	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°	17012.6	100.0
0°-180°	17012.6	100.0

Coefficient of Utilization



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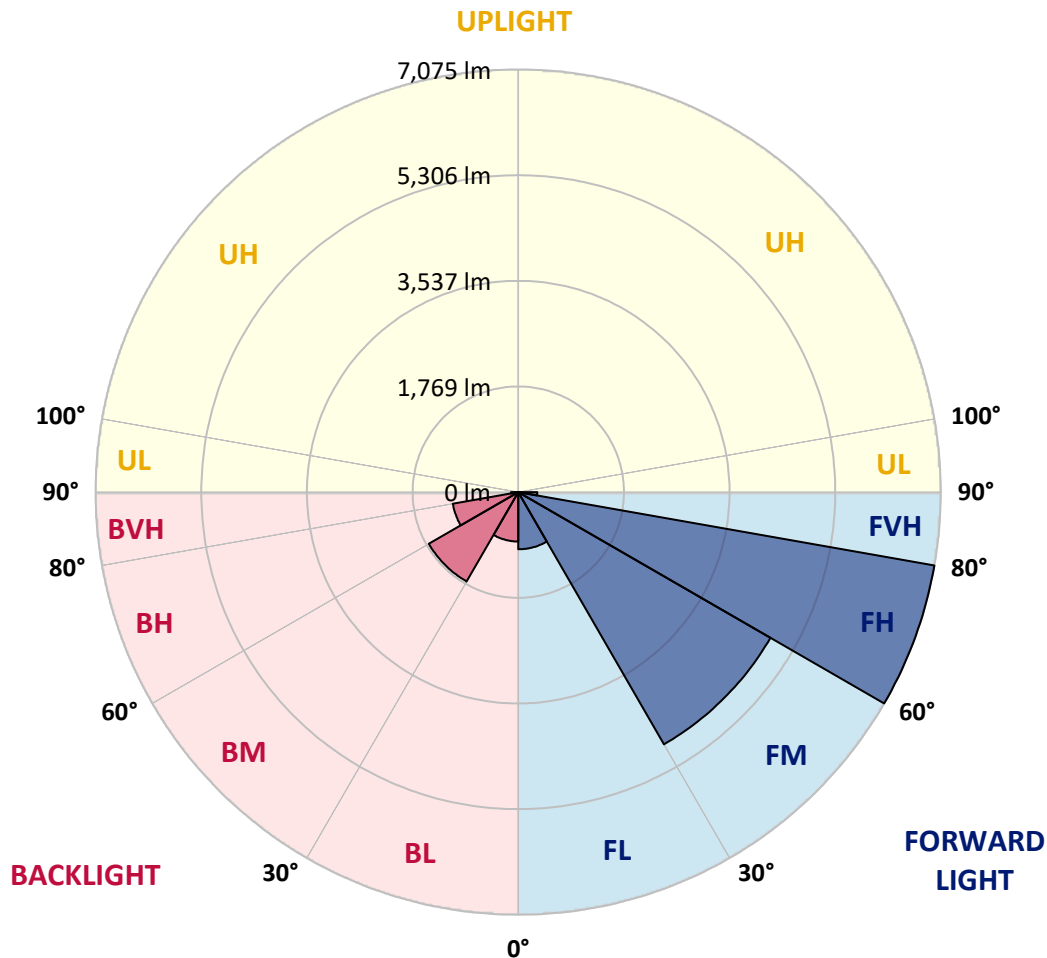
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	956.1	5.6			
FM (30°-60°)	4875.2	28.7			
FH (60°-80°)	7074.6	41.6			G3/7500
FVH (80°-90°)	319.6	1.9			G3/500
BL (0°-30°)	826.9	4.9	B2/1000		
BM (30°-60°)	1728.3	10.2	B2/2500		
BH (60°-80°)	1112.4	6.5	B3/2500		G3/2500
BVH (80°-90°)	119.5	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-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1752.0	1752.0	1752.0	1752.0	1752.0	1752.0	1752.0	1752.0	1752.0	1752.0	1752.0
2.5°	1845.6	1856.6	1845.6	1843.7	1825.4	1812.5	1823.5	1807.0	1788.7	1781.3	1764.8
5°	2014.3	2016.2	1996.0	1997.8	1959.3	1918.9	1926.3	1876.7	1823.5	1803.4	1770.3
7.5°	2186.8	2166.6	2137.2	2128.1	2067.5	2023.5	2018.0	1974.0	1891.4	1845.6	1799.7
10°	2298.7	2306.0	2258.3	2218.0	2166.6	2113.4	2111.6	2029.0	1981.3	1913.4	1854.7
12.5°	2397.8	2399.6	2359.2	2295.0	2230.8	2164.8	2173.9	2137.2	2056.5	1992.3	1933.6
15°	2474.8	2463.8	2419.8	2361.1	2293.2	2241.8	2236.3	2205.1	2137.2	2084.0	1986.8
17.5°	2496.8	2491.3	2447.3	2384.9	2318.9	2280.3	2295.0	2243.7	2216.1	2168.4	2074.9
20°	2454.6	2441.8	2434.4	2364.7	2317.0	2313.4	2300.5	2311.5	2265.7	2221.6	2153.8
22.5°	2377.6	2372.1	2368.4	2313.4	2291.4	2307.9	2329.9	2346.4	2339.0	2296.9	2219.8
25°	2298.7	2324.4	2300.5	2274.8	2306.0	2348.2	2342.7	2395.9	2395.9	2383.1	2318.9
27.5°	2353.7	2337.2	2318.9	2306.0	2317.0	2383.1	2379.4	2443.6	2467.5	2443.6	2370.2
30°	2491.3	2474.8	2421.6	2364.7	2350.1	2421.6	2439.9	2496.8	2507.8	2449.1	2386.7
32.5°	2750.0	2740.8	2656.4	2489.5	2399.6	2439.9	2449.1	2513.3	2504.2	2467.5	2441.8
35°	3133.4	3102.2	2984.8	2702.3	2504.2	2463.8	2439.9	2491.3	2526.2	2507.8	2484.0
37.5°	3553.5	3518.7	3373.7	3016.0	2693.1	2528.0	2509.7	2551.9	2592.2	2583.0	2533.5
40°	3955.3	3955.3	3825.0	3408.6	2973.8	2683.9	2687.6	2639.9	2676.6	2660.1	2669.3
42.5°	4351.5	4336.9	4283.7	3869.1	3274.7	2944.4	2885.7	2766.5	2832.5	2827.0	2839.9
45°	4753.3	4742.3	4727.6	4298.3	3705.8	3296.7	3265.5	3050.9	3111.4	3085.7	3140.7
47.5°	5074.4	5087.2	5087.2	4777.2	4166.3	3766.3	3720.5	3381.1	3496.6	3509.5	3522.3
50°	5347.7	5353.2	5347.7	5234.0	4679.9	4303.9	4210.3	3865.4	3981.0	4081.9	4199.3
52.5°	5725.6	5733.0	5707.3	5663.3	5377.1	4868.9	4764.3	4380.9	4617.6	4724.0	4934.9
55°	6191.6	6136.6	6088.9	6121.9	6046.7	5490.8	5382.6	4912.9	5268.8	5410.1	5832.0
57.5°	6277.8	6325.5	6446.6	6708.9	6817.2	6096.2	6033.8	5566.0	6004.5	6127.4	6831.9
60°	6582.4	6503.5	6800.7	7369.4	7490.5	6885.1	6820.9	6281.5	6736.5	6864.9	7754.6
62.5°	6782.3	6778.7	7218.9	7894.1	8169.2	7703.3	7573.0	7211.6	7527.2	7651.9	8760.0
65°	6723.6	6776.8	7558.3	8202.3	8736.1	8633.4	8558.2	8011.5	8427.9	8416.9	9414.9
67.5°	6187.9	6338.4	7343.7	8424.2	9580.0	9767.1	9743.3	9136.1	9159.9	8926.9	9706.6
70°	5444.9	5393.6	6435.6	8193.1	10002.0	11111.9	11106.4	9972.6	9818.5	9038.8	8870.0
72°	4182.8	4125.9	4982.6	7035.5	9780.0	11649.4	11814.5	10552.3	9811.2	8574.7	7327.2
72.5°	3797.5	3748.0	4601.0	6622.7	9534.1	11788.8	11711.8	10574.3	9734.1	8356.4	6844.7
75°	1748.3	1691.5	2298.7	4054.4	7437.3	10445.9	10708.3	9895.6	8501.3	6652.1	4100.2
77.5°	521.0	504.5	739.3	1636.4	4322.2	7695.9	7796.8	7466.6	5934.8	3643.4	1520.8
80°	289.9	291.7	381.6	612.7	1900.6	4448.8	4812.0	4612.1	2911.4	1203.5	506.3
82.5°	161.4	170.6	238.5	363.2	873.2	2041.9	2197.8	2118.9	1053.0	565.0	277.0
85°	84.4	88.1	124.7	194.5	495.3	645.8	664.1	711.8	546.7	385.3	148.6
87.5°	33.0	33.0	45.9	80.7	183.5	200.0	179.8	218.3	313.7	249.5	73.4
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°	1752.0	1752.0	1752.0	1752.0	1752.0	1752.0	1752.0	1752.0	1752.0	1752.0	1752.0
2.5°	1779.5	1764.8	1763.0	1739.2	1746.5	1726.3	1728.1	1724.5	1726.3	1722.6	1713.5
5°	1770.3	1759.3	1728.1	1748.3	1730.0	1755.7	1775.8	1768.5	1774.0	1772.2	1774.0
7.5°	1783.2	1768.5	1764.8	1753.8	1770.3	1781.3	1797.9	1843.7	1840.1	1845.6	1856.6
10°	1821.7	1805.2	1794.2	1810.7	1801.5	1836.4	1854.7	1878.6	1920.8	1922.6	1900.6
12.5°	1896.9	1885.9	1863.9	1867.6	1898.8	1909.8	1920.8	1935.4	1963.0	1957.5	1977.6
15°	1983.1	1959.3	1946.5	1942.8	1950.1	1963.0	1961.1	1975.8	1990.5	2003.3	1997.8
17.5°	2045.5	2014.3	2018.0	2036.3	2034.5	2030.8	2007.0	1999.7	2007.0	2014.3	2010.7
20°	2109.7	2113.4	2085.9	2069.4	2062.0	2025.3	2007.0	1985.0	1963.0	1974.0	1990.5
22.5°	2190.5	2173.9	2133.6	2084.0	2047.4	2025.3	1968.5	1929.9	1929.9	1941.0	1935.4
25°	2282.2	2247.3	2177.6	2087.7	2041.9	1948.3	1907.9	1902.4	1887.8	1904.3	1911.6
27.5°	2353.7	2322.5	2227.1	2074.9	1948.3	1873.1	1849.2	1841.9	1865.7	1867.6	1896.9
30°	2383.1	2373.9	2234.5	2041.9	1852.9	1731.8	1717.1	1750.2	1775.8	1814.4	1816.2
32.5°	2421.6	2425.3	2245.5	1964.8	1728.1	1607.1	1585.0	1625.4	1698.8	1730.0	1753.8
35°	2485.8	2504.2	2236.3	1869.4	1596.1	1480.5	1476.8	1487.8	1559.4	1614.4	1645.6
37.5°	2597.7	2594.1	2234.5	1755.7	1491.5	1370.4	1341.1	1344.7	1392.4	1438.3	1432.8
40°	2748.2	2733.5	2229.0	1607.1	1355.7	1276.8	1227.3	1209.0	1205.3	1192.5	1196.1
42.5°	2953.6	2924.3	2227.1	1456.6	1232.8	1148.4	1113.6	1065.9	1031.0	965.0	968.6
45°	3239.8	3188.4	2179.4	1315.4	1111.7	1042.0	988.8	954.0	878.7	796.2	796.2
47.5°	3681.9	3515.0	2181.3	1159.4	994.3	937.5	900.8	840.2	759.5	693.5	686.1
50°	4333.2	3951.6	2118.9	1036.5	898.9	860.4	821.9	752.2	675.1	629.3	634.8
52.5°	5173.4	4602.9	2117.1	926.4	823.7	796.2	754.0	691.6	634.8	605.4	594.4
55°	6175.1	5465.1	2183.1	836.6	746.7	732.0	713.6	662.3	607.2	581.6	579.7
57.5°	7200.6	6307.2	2289.5	772.3	680.6	691.6	678.8	638.4	594.4	565.0	561.4
60°	8112.4	6975.0	2074.9	695.3	621.9	645.8	664.1	629.3	605.4	603.6	590.7
62.5°	8800.3	7261.1	1577.7	636.6	590.7	634.8	684.3	706.3	695.3	710.0	711.8
65°	9051.7	7088.7	1086.1	605.4	566.9	660.4	770.5	763.2	699.0	671.4	686.1
67.5°	8699.4	6389.7	805.4	568.7	550.4	713.6	820.0	728.3	631.1	627.4	616.4
70°	7481.3	5415.6	656.8	530.2	522.8	684.3	798.0	675.1	594.4	570.5	559.5
72°	5960.4	4217.6	576.0	502.7	478.8	610.9	746.7	632.9	563.2	533.9	521.0
72.5°	5441.3	3909.4	565.0	489.8	469.6	594.4	721.0	620.1	555.9	530.2	510.0
75°	2984.8	2001.5	497.2	449.5	396.3	513.7	667.8	581.6	524.7	488.0	484.3
77.5°	1109.9	776.0	429.3	398.1	343.1	444.0	607.2	552.2	477.0	431.1	421.9
80°	425.6	409.1	350.4	335.7	288.0	388.9	559.5	495.3	405.4	359.6	344.9
82.5°	258.7	238.5	266.0	262.3	220.1	354.1	526.5	464.1	359.6	291.7	282.5
85°	141.3	141.3	185.3	178.0	154.1	282.5	398.1	308.2	227.5	187.1	190.8
87.5°	62.4	73.4	99.1	93.6	84.4	159.6	194.5	163.3	113.7	77.1	82.6
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)