

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: P478156

Luminaire Tested: **IFLD-S-SA3A-740-U-T4FT**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478156  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3A-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**

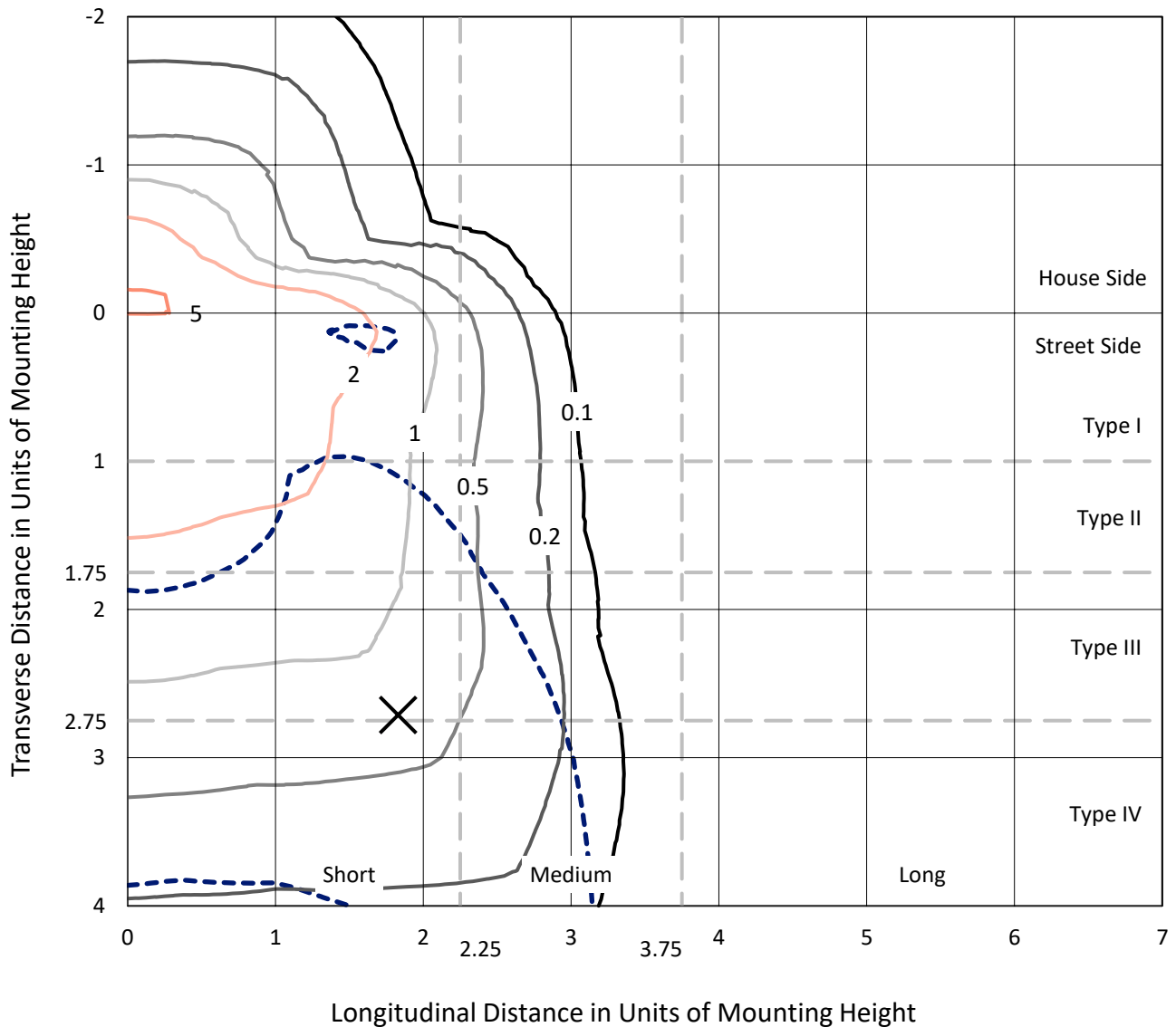
Lumens per Lamp: N/A  
Luminaire Lumens: 14095.5 lumens  
Efficiency: N/A  
Efficacy: 148.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3

Input Watts (W): 94.8  
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

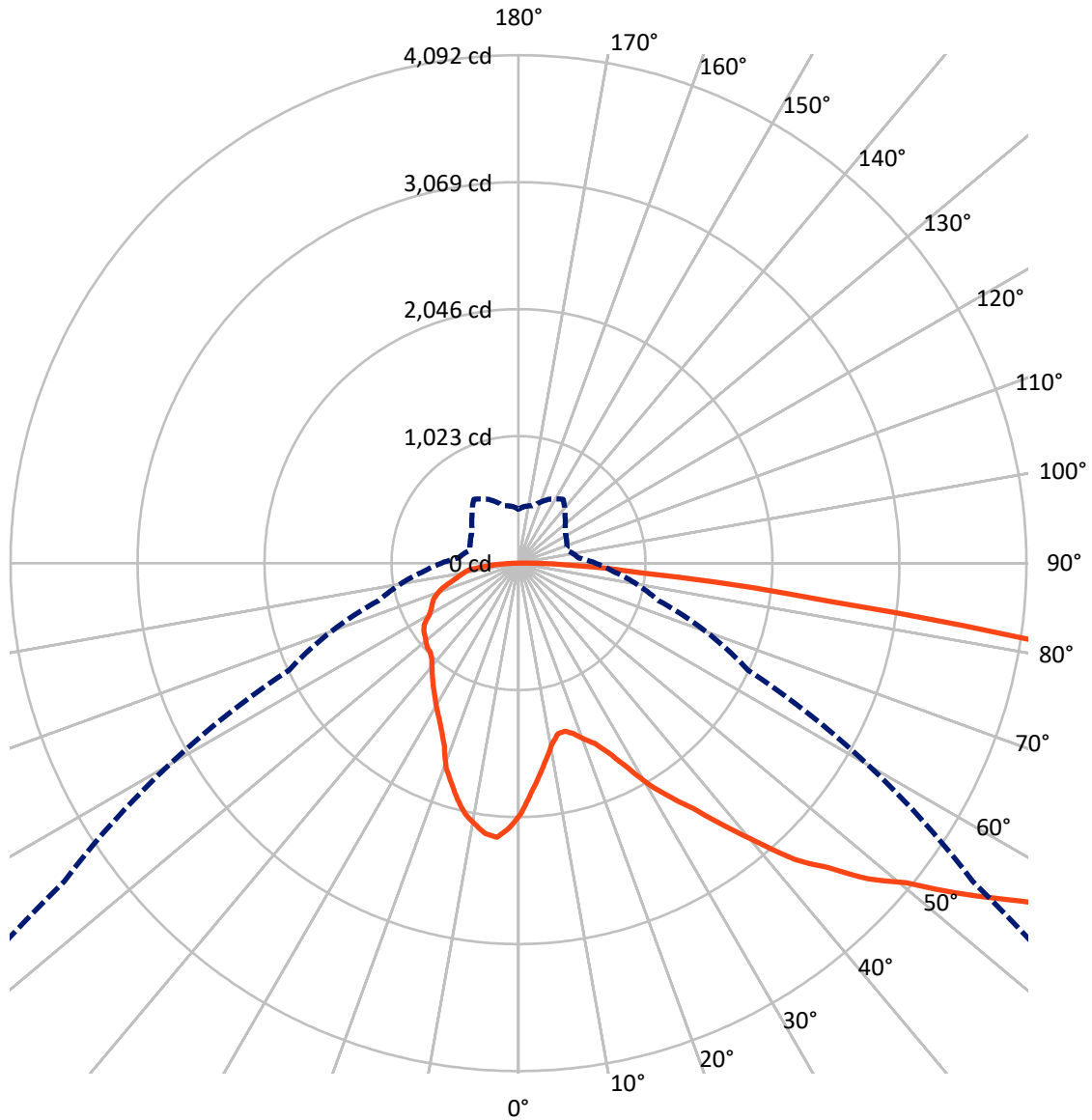
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.3 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
<b>House Side</b>	Lumens	3044.8	0.0	3044.8
	% Fixture	21.6	0.0	21.6
<b>Street Side</b>	Lumens	11050.7	0.0	11050.7
	% Fixture	78.4	0.0	78.4
<b>Total</b>	Lumens	14095.5	0.0	14095.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	186.5	1.3
10°-20°	522.0	3.7
20°-30°	859.1	6.1
30°-40°	1284.7	9.1
40°-50°	1904.6	13.5
50°-60°	2744.7	19.5
60°-70°	3502.6	24.8
70°-80°	2725.6	19.3
80°-90°	365.7	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°	14095.5	100.0
0°-180°	14095.5	100.0

**Coefficient of Utilization**



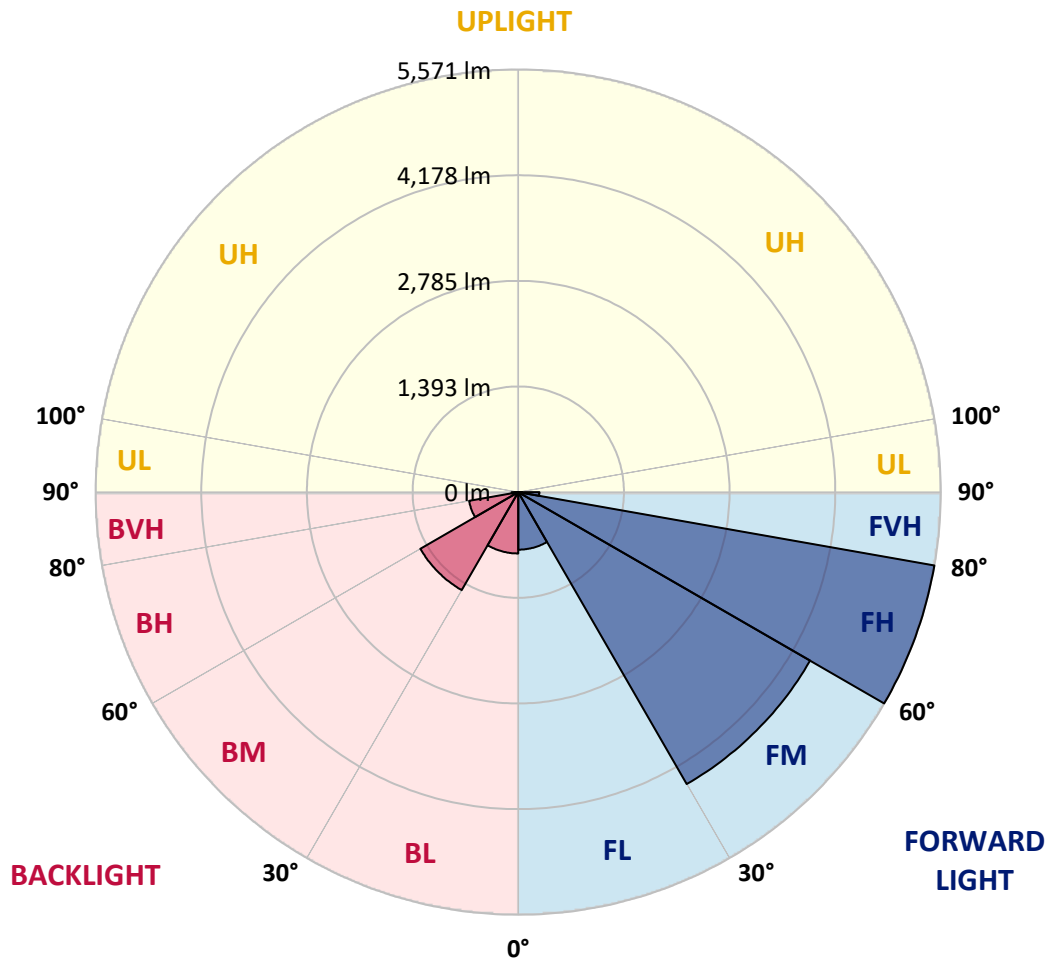
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	758.6	5.4			
FM (30°-60°)	4443.0	31.5			
FH (60°-80°)	5570.8	39.5			G3/7500
FVH (80°-90°)	278.3	2.0			G3/500
BL (0°-30°)	809.0	5.7	B2/1000		
BM (30°-60°)	1491.0	10.6	B2/2500		
BH (60°-80°)	657.4	4.7	B2/1000		G2/1000
BVH (80°-90°)	87.3	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	2020.8	2020.8	2020.8	2020.8	2020.8	2020.8	2020.8	2020.8	2020.8	2020.8	2020.8
2.5°	1810.7	1816.6	1836.0	1840.5	1861.4	1849.4	1874.8	1919.5	1944.8	1982.1	2026.8
5°	1667.6	1642.3	1654.2	1700.4	1724.2	1730.2	1757.0	1833.0	1880.7	1935.9	2019.3
7.5°	1499.2	1494.7	1518.6	1548.4	1596.1	1600.6	1660.2	1727.2	1825.6	1947.8	2046.1
10°	1384.5	1403.8	1417.2	1448.5	1481.3	1481.3	1557.3	1673.6	1785.3	1903.1	2052.1
12.5°	1378.5	1366.6	1369.6	1386.0	1409.8	1439.6	1511.1	1615.5	1757.0	1894.1	2077.4
15°	1397.9	1402.3	1375.5	1396.4	1405.3	1415.8	1494.7	1612.5	1739.1	1925.4	2120.7
17.5°	1500.7	1475.4	1433.6	1414.3	1445.6	1445.6	1499.2	1591.6	1742.1	1941.8	2183.2
20°	1581.2	1581.2	1512.6	1491.8	1514.1	1509.6	1546.9	1615.5	1757.0	1974.6	2253.3
22.5°	1716.8	1736.2	1622.9	1579.7	1578.2	1590.1	1622.9	1681.0	1798.8	2020.8	2320.4
25°	1912.0	1916.5	1785.3	1740.6	1692.9	1712.3	1718.3	1776.4	1836.0	2074.5	2396.4
27.5°	2129.6	2126.6	2005.9	1894.1	1862.8	1867.3	1834.5	1873.3	1891.2	2090.9	2505.1
30°	2371.0	2344.2	2253.3	2095.3	2070.0	2041.7	1970.1	1968.7	2005.9	2183.2	2655.7
32.5°	2529.0	2494.7	2432.1	2318.9	2248.8	2251.8	2138.5	2137.1	2104.3	2284.6	2786.8
35°	2684.0	2631.8	2615.4	2499.2	2429.1	2436.6	2345.7	2333.8	2274.2	2438.1	3002.9
37.5°	2870.3	2824.1	2849.4	2761.5	2675.0	2639.3	2597.5	2582.6	2505.1	2654.2	3298.0
40°	3075.9	3061.0	3044.6	3001.4	2949.2	2952.2	2907.5	2892.6	2777.9	2915.0	3581.1
42.5°	3353.1	3296.5	3211.5	3239.9	3266.7	3295.0	3280.1	3241.3	3122.1	3180.2	3897.1
45°	3610.9	3536.4	3379.9	3388.9	3499.2	3521.5	3701.8	3697.4	3457.4	3517.0	4256.2
47.5°	3785.3	3751.0	3657.1	3646.7	3804.7	3803.2	4128.1	4128.1	3810.6	3852.4	4642.2
50°	4044.6	3955.2	3914.9	3967.1	4047.6	4102.7	4563.2	4591.5	4157.9	4202.6	5147.4
52.5°	4348.6	4236.8	4135.5	4269.6	4412.7	4448.5	4993.9	4982.0	4424.6	4609.4	5739.0
55°	4600.5	4543.8	4473.8	4551.3	4785.3	4830.0	5426.1	5315.8	4691.4	4946.2	6023.7
57.5°	4894.1	4928.3	4943.2	4923.9	5202.5	5272.6	5919.4	5603.4	4920.9	5172.7	6190.6
60°	5336.7	5357.5	5376.9	5423.1	5718.2	5816.5	6309.8	5964.1	5065.4	5303.9	6204.0
62.5°	6010.3	5929.8	5973.0	6132.5	6369.4	6481.2	6885.1	6217.4	5175.7	5382.9	5765.9
65°	6780.7	6672.0	6627.2	6832.9	7446.9	7357.5	7603.4	6406.7	5016.3	5087.8	4889.6
67.5°	7561.6	7573.6	7458.8	7871.6	8624.2	8624.2	8271.0	6497.6	4584.1	4123.6	3429.1
70°	8181.6	8218.9	8281.4	9081.7	10273.9	10454.3	9098.1	6125.0	3703.3	2745.1	1874.8
72.5°	8172.7	8060.9	8381.3	9855.2	11773.2	11622.6	9271.0	4843.4	2311.4	1344.2	859.9
73°	7989.4	7895.5	8245.7	9847.7	11834.3	11692.7	9144.3	4464.9	2038.7	1165.4	764.5
75°	6524.4	6354.5	6950.6	8919.3	10949.0	11057.8	7768.8	2912.0	1117.7	718.3	538.0
77.5°	2974.6	3049.1	3825.5	5983.4	8437.9	8566.1	5107.2	1259.3	612.5	503.7	396.4
80°	955.3	1003.0	1488.8	2974.6	5289.0	5520.0	2360.6	572.3	436.6	386.0	296.6
82.5°	365.1	363.6	624.4	1236.9	2506.6	2654.2	862.9	348.7	324.9	284.6	210.1
85°	128.2	134.1	235.5	488.8	986.6	1032.8	299.5	193.7	225.0	190.8	120.7
87.5°	44.7	46.2	83.5	177.3	339.8	359.2	83.5	77.5	111.8	110.3	61.1
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°	2020.8	2020.8	2020.8	2020.8	2020.8	2020.8	2020.8	2020.8	2020.8	2020.8	2020.8
2.5°	2041.7	2055.1	2059.6	2113.2	2113.2	2113.2	2134.1	2134.1	2128.1	2113.2	2149.0
5°	2050.6	2074.5	2120.7	2166.9	2178.8	2189.2	2217.5	2193.7	2202.6	2187.7	2201.1
7.5°	2075.9	2108.7	2195.2	2223.5	2204.1	2226.5	2196.7	2180.3	2163.9	2169.8	2149.0
10°	2119.2	2160.9	2201.1	2253.3	2216.0	2193.7	2132.6	2117.7	2065.5	2047.6	2064.0
12.5°	2172.8	2223.5	2292.0	2272.7	2201.1	2137.1	2071.5	2008.9	1977.6	1932.9	1944.8
15°	2226.5	2284.6	2295.0	2262.2	2172.8	2092.3	1973.1	1885.2	1853.9	1813.7	1834.5
17.5°	2284.6	2339.7	2321.8	2236.9	2116.2	1994.0	1858.4	1771.9	1706.4	1681.0	1681.0
20°	2371.0	2397.8	2369.5	2195.2	2047.6	1886.7	1755.5	1657.2	1591.6	1581.2	1564.8
22.5°	2438.1	2481.3	2354.6	2134.1	1947.8	1746.6	1596.1	1558.8	1539.5	1523.1	1502.2
25°	2524.5	2523.0	2327.8	2077.4	1776.4	1579.7	1488.8	1485.8	1476.9	1470.9	1499.2
27.5°	2606.5	2572.2	2296.5	1937.4	1599.1	1453.0	1403.8	1436.6	1450.0	1441.1	1453.0
30°	2736.1	2679.5	2251.8	1788.3	1442.6	1324.9	1333.8	1378.5	1400.9	1414.3	1396.4
32.5°	2873.2	2786.8	2159.4	1633.3	1304.0	1244.4	1265.2	1311.4	1338.3	1353.2	1369.6
35°	3071.5	2870.3	2065.5	1430.7	1204.1	1195.2	1207.1	1232.5	1271.2	1281.6	1286.1
37.5°	3315.9	2996.9	1938.8	1268.2	1126.6	1137.1	1149.0	1157.9	1159.4	1178.8	1171.4
40°	3560.3	3104.2	1754.1	1113.2	1046.2	1102.8	1096.8	1080.4	1067.0	1049.2	1044.7
42.5°	3774.9	3198.1	1548.4	982.1	974.6	1067.0	1047.7	1005.9	974.6	961.2	938.9
45°	4016.3	3330.8	1341.2	900.1	919.5	1023.8	1017.9	953.8	913.5	865.8	859.9
47.5°	4329.2	3469.4	1143.0	815.2	867.3	1007.4	1010.4	928.4	870.3	806.2	797.3
50°	4730.1	3669.1	992.5	779.4	836.0	983.6	988.1	894.2	818.2	752.6	746.6
52.5°	5114.6	3873.2	867.3	724.3	815.2	955.3	965.7	862.9	774.9	693.0	697.4
55°	5308.4	3798.7	760.0	684.0	767.5	909.1	947.8	840.5	709.4	652.7	651.2
57.5°	5351.6	3615.4	675.1	642.3	727.3	859.9	918.0	773.5	679.6	631.9	625.9
60°	5210.0	3295.0	608.0	597.6	676.6	809.2	849.5	737.7	649.8	611.0	602.1
62.5°	4861.3	2962.7	561.8	576.7	633.4	754.1	806.2	712.4	621.4	594.6	575.2
65°	3986.5	2436.6	524.6	536.5	588.7	700.4	779.4	684.0	596.1	570.8	569.3
67.5°	2761.5	1679.5	494.8	517.1	552.9	661.7	752.6	652.7	563.3	554.4	542.5
70°	1414.3	895.7	456.0	473.9	514.1	612.5	704.9	620.0	529.0	527.6	512.7
72.5°	716.8	524.6	411.3	438.1	466.5	548.4	645.3	576.7	485.8	469.4	445.6
73°	620.0	485.8	403.9	427.7	454.5	530.5	627.4	566.3	479.9	456.0	433.7
75°	451.6	383.0	362.1	386.0	406.8	478.4	567.8	518.6	441.1	415.8	394.9
77.5°	338.3	295.1	301.0	327.9	345.7	412.8	505.2	469.4	399.4	365.1	356.2
80°	248.9	225.0	248.9	274.2	287.6	363.6	460.5	406.8	336.8	298.1	290.6
82.5°	177.3	163.9	192.2	208.6	214.6	301.0	414.3	324.9	254.8	204.2	187.8
85°	101.3	99.8	129.7	128.2	132.6	175.9	272.7	216.1	163.9	125.2	122.2
87.5°	44.7	49.2	65.6	52.2	55.1	83.5	116.2	80.5	67.1	37.3	28.3
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)