

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: P483092

Luminaire Tested: **IFLD-M-SA4C-722-U-T4FT-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483092
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-722-U-T4FT-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens with House Side Shield
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

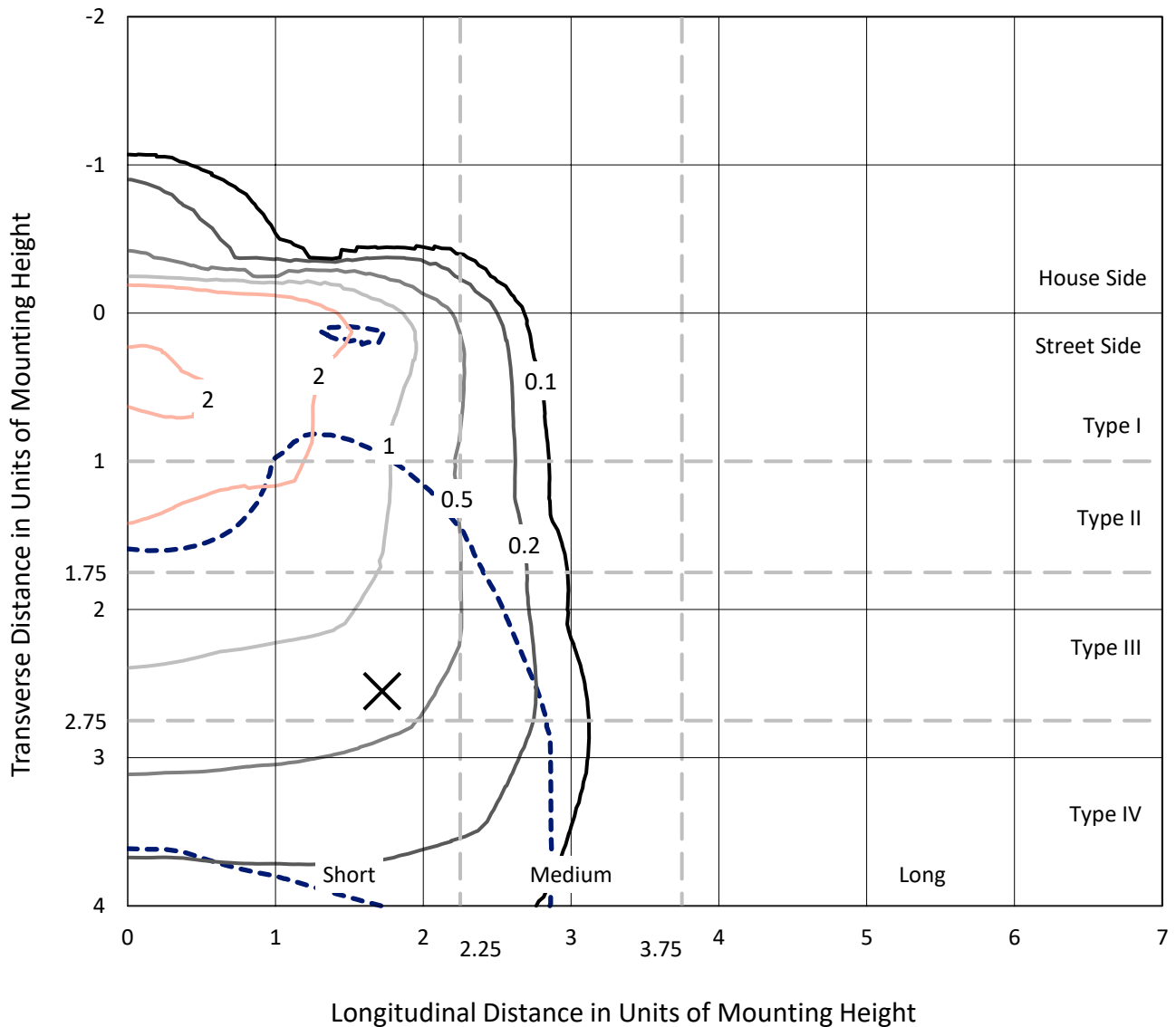
Lumens per Lamp: N/A
Luminaire Lumens: 15143.5 lumens
Efficiency: N/A
Efficacy: 69.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 218.1
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

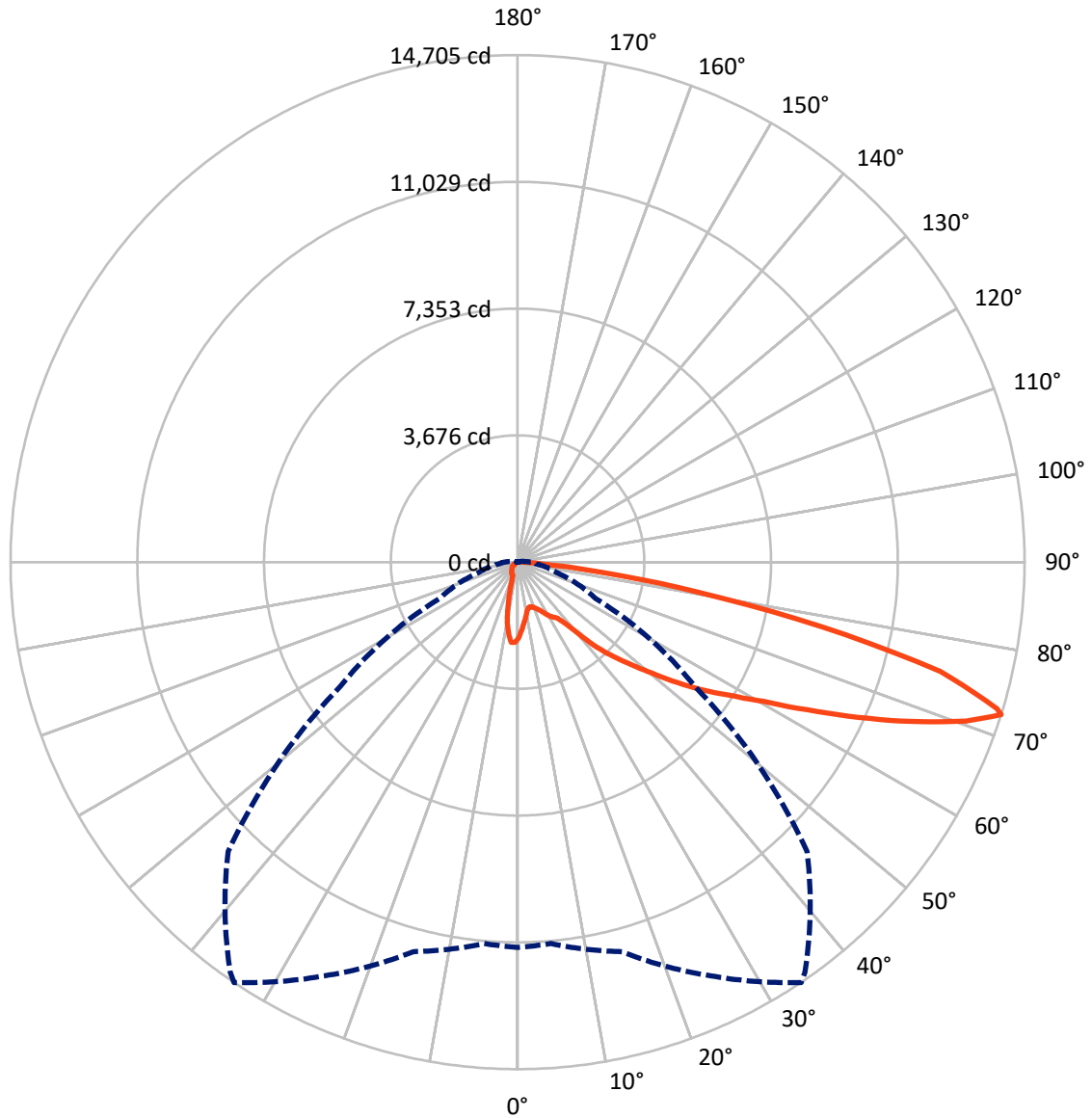
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1550.3	0.0	1550.3
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	13593.1	0.0	13593.1
	% Fixture	89.8	0.0	89.8
Total	Lumens	15143.5	0.0	15143.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	192.3	1.3
10°-20°	435.4	2.9
20°-30°	657.2	4.3
30°-40°	1066.5	7.0
40°-50°	2005.6	13.2
50°-60°	3279.1	21.7
60°-70°	4359.2	28.8
70°-80°	2919.3	19.3
80°-90°	228.8	1.5
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°	15143.5	100.0
0°-180°	15143.5	100.0



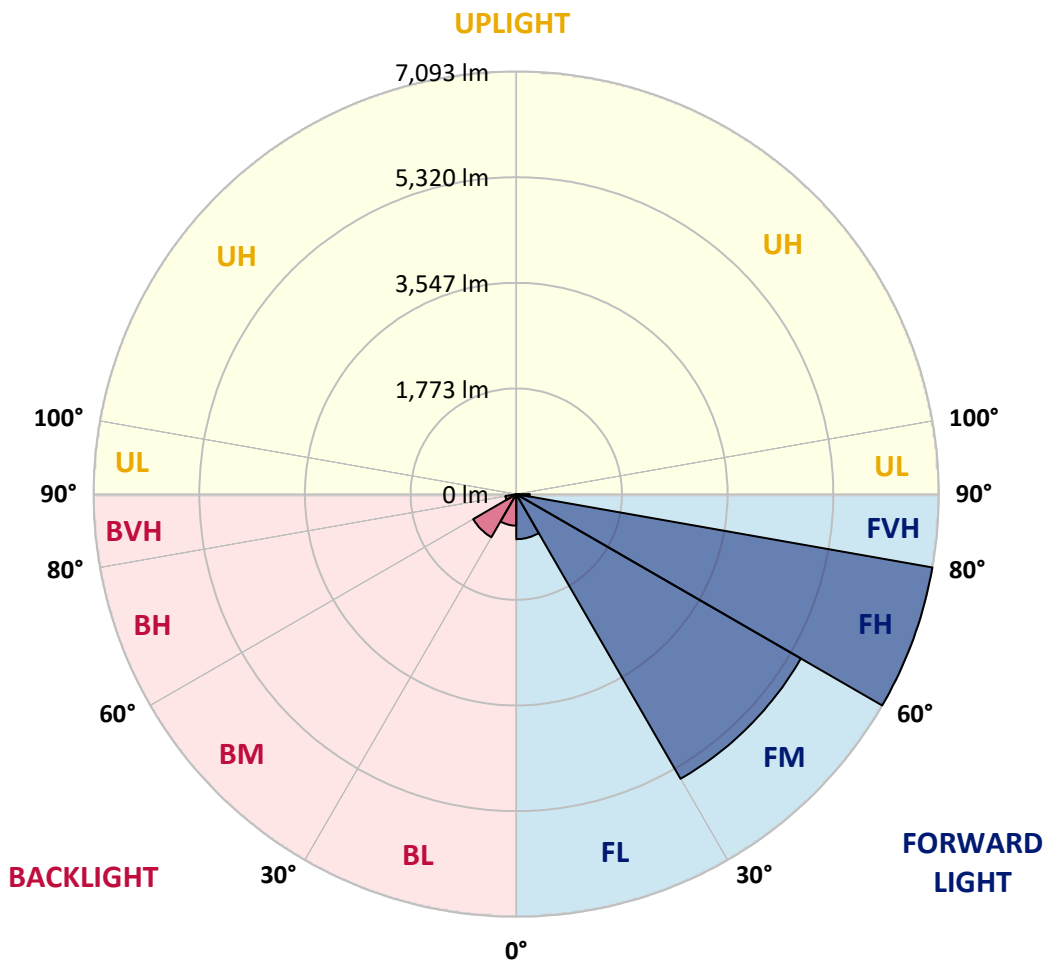
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	756.0	5.0			
FM (30°-60°)	5516.7	36.4			
FH (60°-80°)	7093.1	46.8			G3/7500
FVH (80°-90°)	227.3	1.5			G3/500
BL (0°-30°)	529.0	3.5	B2/1000		
BM (30°-60°)	834.5	5.5	B1/1000		
BH (60°-80°)	185.4	1.2	B1/500		G1/500
BVH (80°-90°)	1.5	0.0			G0/10
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°	2215.5	2215.5	2215.5	2215.5	2215.5	2215.5	2215.5	2215.5	2215.5	2215.5	2215.5
2.5°	1959.4	1955.0	1968.1	1990.0	2011.9	2003.1	2044.7	2088.5	2119.2	2160.8	2211.1
5°	1712.0	1722.9	1736.1	1779.8	1808.3	1814.9	1891.5	1948.4	2042.6	2138.9	2228.6
7.5°	1486.5	1499.6	1525.9	1574.1	1633.2	1648.5	1725.1	1839.0	1961.5	2088.5	2235.2
10°	1322.3	1335.4	1363.9	1394.5	1473.4	1473.4	1578.4	1736.1	1895.9	2044.7	2237.4
12.5°	1287.3	1293.8	1291.6	1315.7	1366.1	1377.0	1479.9	1652.9	1839.0	2029.4	2272.4
15°	1328.9	1333.2	1311.3	1298.2	1342.0	1352.9	1449.3	1602.5	1801.7	2038.2	2329.3
17.5°	1412.1	1396.7	1352.9	1333.2	1370.5	1377.0	1466.8	1600.3	1797.4	2062.3	2395.0
20°	1460.2	1477.7	1401.1	1363.9	1416.4	1425.2	1521.5	1635.4	1819.2	2103.8	2487.0
22.5°	1545.6	1554.4	1451.5	1427.4	1477.7	1477.7	1587.2	1705.4	1871.8	2171.7	2596.4
25°	1666.0	1655.1	1534.7	1510.6	1558.7	1578.4	1687.9	1817.1	1952.8	2235.2	2697.1
27.5°	1760.1	1766.7	1668.2	1604.7	1685.7	1698.8	1817.1	1937.5	2014.1	2287.7	2819.7
30°	1900.3	1887.1	1782.0	1709.8	1810.5	1812.7	1926.5	2051.3	2132.3	2381.9	3003.6
32.5°	2066.6	2040.4	1920.0	1817.1	1898.1	1917.8	2033.8	2215.5	2316.2	2559.2	3288.2
35°	2419.1	2355.6	2158.6	1998.8	2005.3	2014.1	2193.6	2454.1	2570.2	2784.7	3669.1
37.5°	2933.6	2907.3	2684.0	2379.7	2263.7	2237.4	2438.8	2769.4	2913.9	3082.4	4163.9
40°	3443.7	3406.4	3198.5	2968.6	2758.4	2705.9	2806.6	3187.5	3318.9	3496.2	4671.8
42.5°	4010.7	3945.0	3699.8	3513.7	3382.4	3325.4	3286.0	3712.9	3861.8	3982.2	5168.8
45°	4584.2	4477.0	4122.3	3980.0	3910.0	3879.3	3874.9	4374.1	4463.8	4487.9	5720.5
47.5°	5087.8	4971.7	4649.9	4490.1	4437.6	4428.8	4674.0	5135.9	5065.9	5002.4	6335.6
50°	5475.3	5400.8	5168.8	5111.9	5072.4	5057.1	5630.7	5919.7	5595.7	5484.0	6876.4
52.5°	6075.1	5908.7	5646.0	5665.7	5803.6	5805.8	6600.5	6664.0	6035.7	5814.6	7386.5
55°	6554.6	6445.1	6230.5	6202.1	6565.5	6604.9	7469.7	7228.8	6280.9	6129.8	7574.7
57.5°	7119.4	7069.0	6913.6	6918.0	7298.9	7382.1	8242.5	7706.1	6484.5	6333.4	7603.2
60°	7936.0	7791.5	7710.5	7747.7	8196.5	8277.5	8991.2	8049.8	6583.0	6467.0	7533.1
62.5°	8837.9	8669.3	8581.8	8772.2	9426.8	9440.0	9560.4	8354.1	6521.7	6502.0	7082.2
65°	9923.8	9757.4	9687.3	10070.5	10847.6	10799.5	10359.4	8483.3	6326.9	6149.5	5897.8
67.5°	11005.3	10904.6	10760.1	11370.9	12338.5	12338.5	11189.2	8435.1	5816.8	4936.7	3857.4
70°	11517.5	11587.6	11817.5	12776.3	13803.1	13698.0	12007.9	7881.2	4330.3	2651.2	1517.1
72°	11176.0	11103.8	11697.1	13236.1	14705.1	14532.1	11870.0	6265.6	2502.3	1162.5	527.6
72.5°	10589.3	10657.2	11473.8	13172.6	14536.5	14678.8	11532.9	5779.6	2057.9	926.0	398.4
75°	6493.3	6609.3	8564.3	11184.8	12666.9	12507.1	8921.1	2754.1	790.3	394.1	142.3
77.5°	2370.9	2467.3	4155.2	7038.4	9008.7	8908.0	5162.2	978.6	429.1	293.4	72.2
80°	617.4	667.7	1412.1	3246.6	5297.9	5304.5	2160.8	391.9	291.2	240.8	43.8
82.5°	122.6	135.7	433.5	1263.2	2476.0	2443.2	683.0	210.2	218.9	197.0	30.6
85°	15.3	19.7	91.9	429.1	801.3	718.1	168.6	105.1	162.0	153.2	19.7
87.5°	2.2	2.2	21.9	98.5	168.6	164.2	35.0	32.8	72.2	94.1	10.9
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°	2215.5	2215.5	2215.5	2215.5	2215.5	2215.5	2215.5	2215.5	2215.5	2215.5	2215.5
2.5°	2239.6	2248.3	2279.0	2305.3	2335.9	2344.7	2331.5	2353.4	2322.8	2340.3	2344.7
5°	2244.0	2294.3	2351.2	2388.4	2379.7	2357.8	2340.3	2281.2	2239.6	2224.3	2257.1
7.5°	2274.6	2331.5	2392.8	2392.8	2344.7	2230.8	2121.4	2016.3	1928.7	1884.9	1922.1
10°	2314.0	2373.1	2436.6	2353.4	2173.9	1965.9	1810.5	1613.5	1479.9	1409.9	1416.4
12.5°	2366.6	2449.7	2471.6	2279.0	1981.3	1672.6	1390.2	1116.5	989.5	888.8	891.0
15°	2434.4	2515.4	2449.7	2117.0	1736.1	1280.7	941.4	680.9	580.1	527.6	527.6
17.5°	2524.2	2585.5	2443.2	1968.1	1405.5	875.7	578.0	459.7	437.8	429.1	429.1
20°	2629.3	2675.2	2379.7	1736.1	1044.3	562.6	424.7	411.6	413.8	409.4	409.4
22.5°	2747.5	2762.8	2307.4	1466.8	707.1	416.0	396.3	398.4	400.6	396.3	398.4
25°	2872.3	2830.7	2202.4	1151.5	470.7	378.7	383.1	387.5	389.7	391.9	391.9
27.5°	3012.4	2929.2	2055.7	842.9	367.8	356.8	370.0	383.1	385.3	385.3	383.1
30°	3218.2	3080.2	1913.4	571.4	324.0	332.8	354.7	370.0	380.9	380.9	378.7
32.5°	3478.7	3237.9	1714.2	389.7	299.9	304.3	321.8	352.5	376.5	378.7	372.2
35°	3839.9	3428.3	1506.2	310.9	282.4	284.6	295.5	319.6	361.2	374.4	372.2
37.5°	4220.8	3645.1	1247.9	280.2	269.3	267.1	273.7	293.4	330.6	363.4	365.6
40°	4625.8	3872.7	976.4	264.9	258.3	254.0	256.1	264.9	293.4	335.0	343.7
42.5°	5006.8	4078.5	733.4	249.6	247.4	243.0	243.0	245.2	260.5	289.0	293.4
45°	5418.3	4247.1	558.3	238.6	232.1	234.2	225.5	221.1	232.1	234.2	232.1
47.5°	5803.6	4415.7	446.6	225.5	218.9	218.9	208.0	199.2	199.2	179.5	177.3
50°	6164.9	4507.6	356.8	208.0	205.8	203.6	188.3	172.9	159.8	135.7	131.4
52.5°	6464.8	4503.2	275.8	186.1	192.7	186.1	162.0	140.1	120.4	98.5	94.1
55°	6554.6	4293.1	208.0	153.2	164.2	155.4	129.2	109.5	87.6	70.1	67.9
57.5°	6477.9	3973.5	157.6	118.2	127.0	118.2	98.5	81.0	61.3	48.2	43.8
60°	6221.8	3599.1	122.6	91.9	96.3	89.8	74.4	61.3	43.8	30.6	26.3
62.5°	5735.8	3130.6	94.1	72.2	70.1	70.1	56.9	46.0	30.6	17.5	15.3
65°	4706.8	2441.0	72.2	50.4	50.4	50.4	43.8	32.8	19.7	8.8	4.4
67.5°	2955.5	1420.8	59.1	39.4	37.2	37.2	30.6	21.9	10.9	2.2	0.0
70°	1112.1	521.0	46.0	30.6	28.5	28.5	21.9	13.1	6.6	0.0	0.0
72°	383.1	199.2	37.2	21.9	21.9	19.7	15.3	10.9	4.4	0.0	0.0
72.5°	315.2	159.8	35.0	21.9	19.7	19.7	15.3	10.9	4.4	0.0	0.0
75°	113.8	65.7	24.1	15.3	13.1	13.1	10.9	6.6	2.2	0.0	0.0
77.5°	56.9	41.6	19.7	13.1	10.9	6.6	6.6	4.4	2.2	0.0	0.0
80°	35.0	26.3	10.9	8.8	6.6	4.4	2.2	2.2	0.0	0.0	0.0
82.5°	24.1	15.3	6.6	6.6	4.4	2.2	0.0	0.0	0.0	0.0	0.0
85°	15.3	6.6	4.4	4.4	2.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.6	4.4	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)