

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: P483404

Luminaire Tested: **IFLD-M-SA4C-830-U-T4FT-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483404
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-830-U-T4FT-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens with House Side Shield
Light Source: (64) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

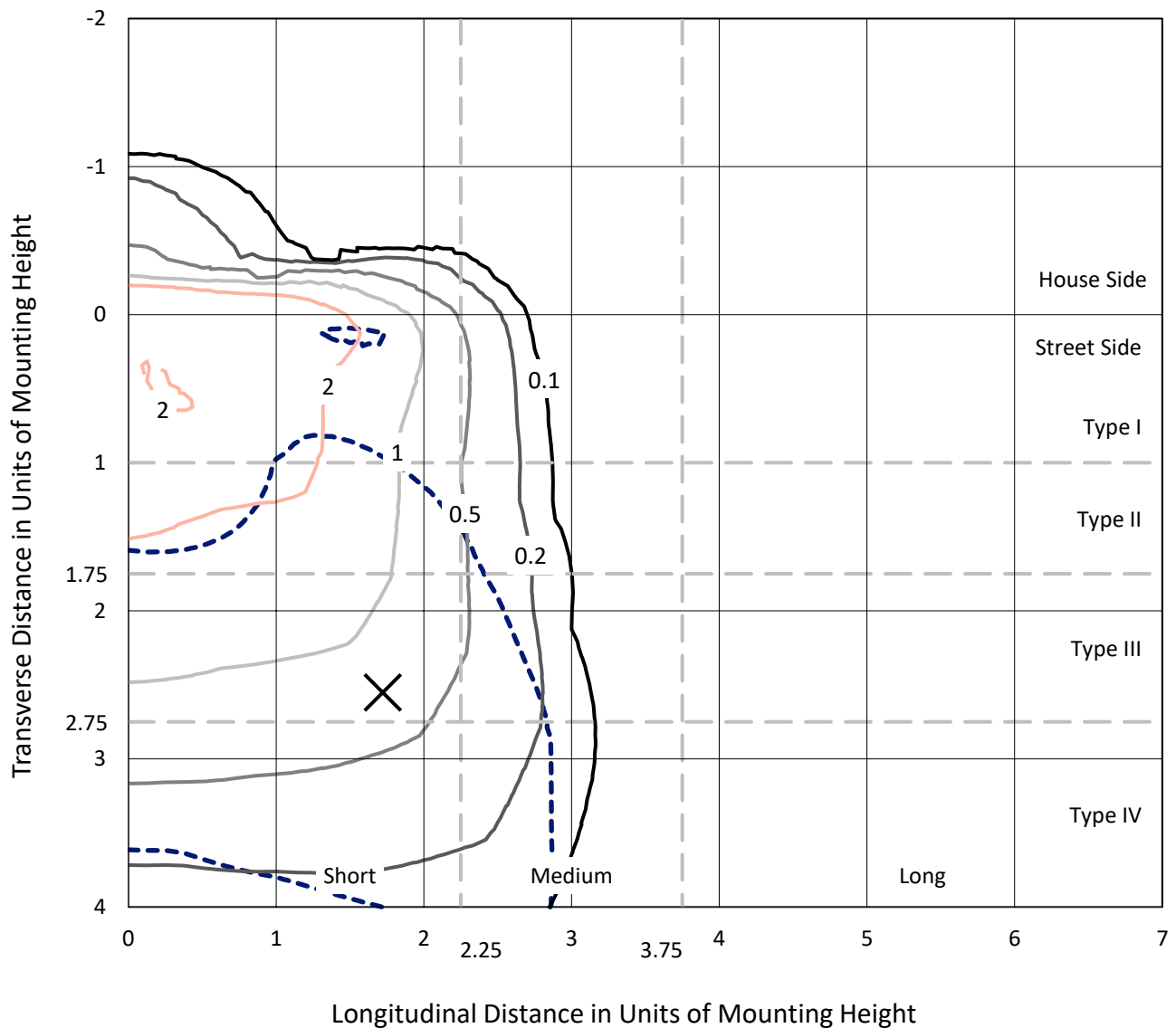
Lumens per Lamp: N/A
Luminaire Lumens: 16335.9 lumens
Efficiency: N/A
Efficacy: 74.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

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

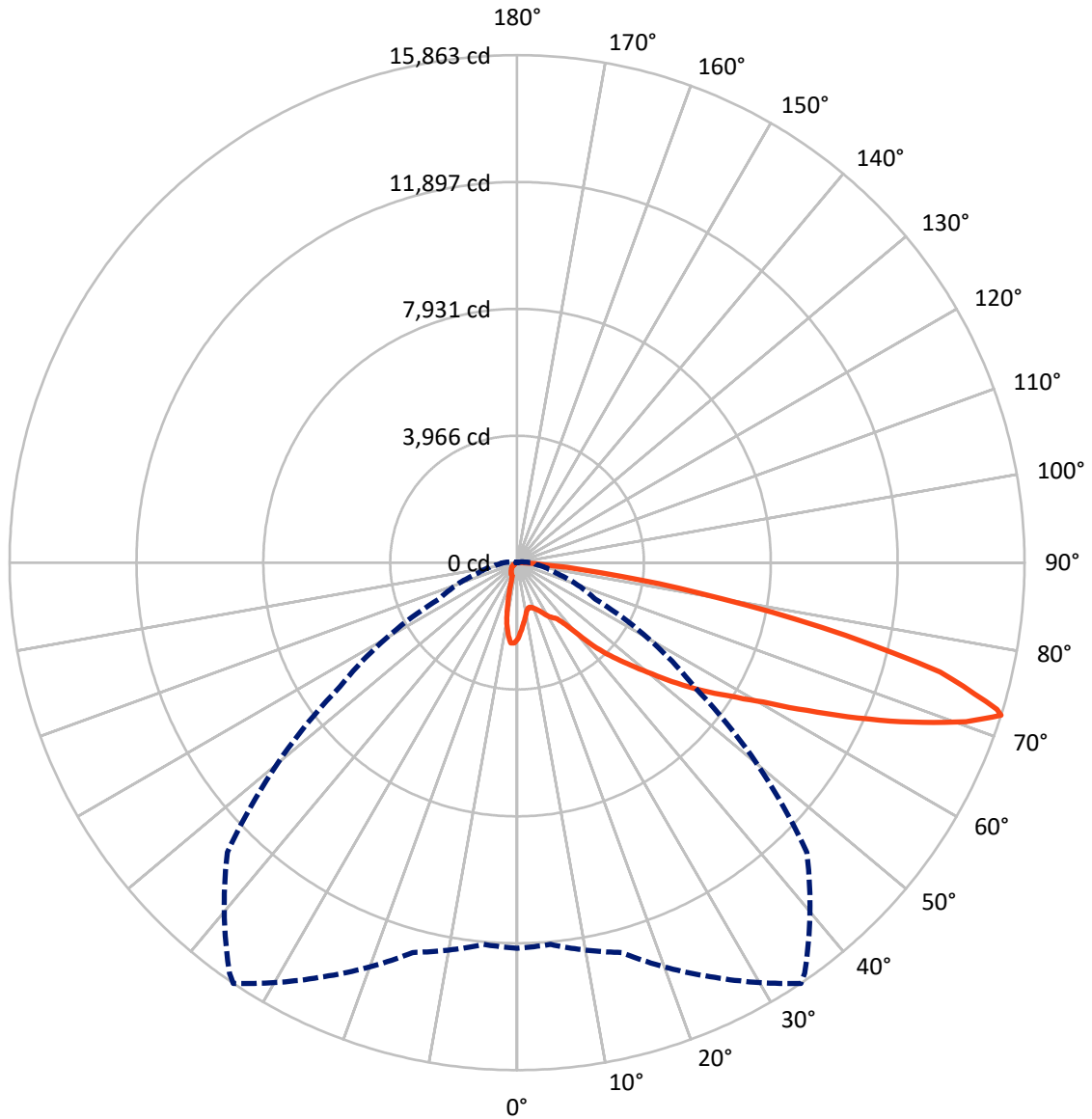
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 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	1672.4	0.0	1672.4
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	14663.5	0.0	14663.5
	% Fixture	89.8	0.0	89.8
Total	Lumens	16335.9	0.0	16335.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	207.5	1.3
10°-20°	469.7	2.9
20°-30°	709.0	4.3
30°-40°	1150.5	7.0
40°-50°	2163.5	13.2
50°-60°	3537.4	21.7
60°-70°	4702.4	28.8
70°-80°	3149.2	19.3
80°-90°	246.8	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°	16335.9	100.0
0°-180°	16335.9	100.0



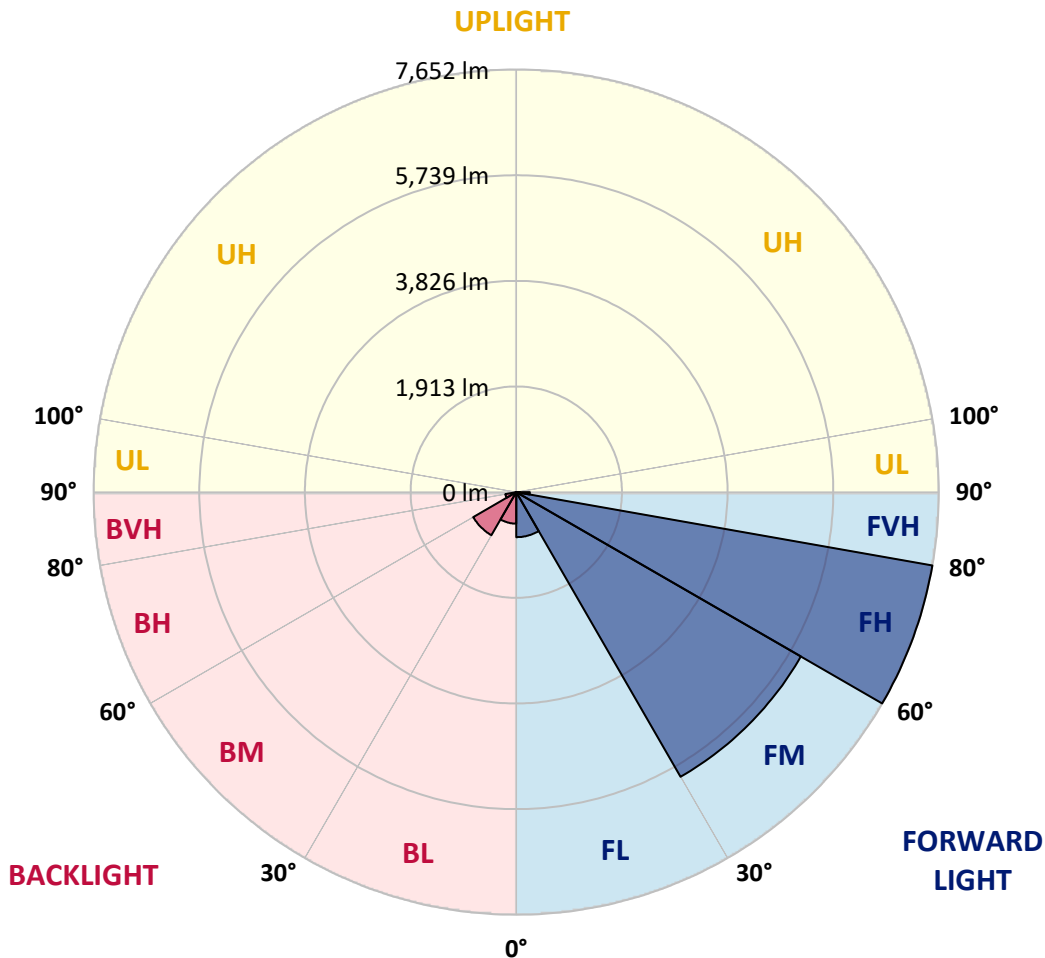
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	815.5	5.0			
FM (30°-60°)	5951.1	36.4			
FH (60°-80°)	7651.6	46.8			G4/12000
FVH (80°-90°)	245.2	1.5			G3/500
BL (0°-30°)	570.6	3.5	B2/1000		
BM (30°-60°)	900.2	5.5	B1/1000		
BH (60°-80°)	200.0	1.2	B1/500		G1/500
BVH (80°-90°)	1.6	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-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	2389.9	2389.9	2389.9	2389.9	2389.9	2389.9	2389.9	2389.9	2389.9	2389.9	2389.9
2.5°	2113.6	2108.9	2123.1	2146.7	2170.3	2160.9	2205.7	2253.0	2286.0	2330.9	2385.2
5°	1846.8	1858.6	1872.8	1920.0	1950.7	1957.8	2040.4	2101.8	2203.4	2307.3	2404.1
7.5°	1603.5	1617.7	1646.0	1698.0	1761.8	1778.3	1860.9	1983.8	2116.0	2253.0	2411.2
10°	1426.4	1440.6	1471.3	1504.3	1589.4	1589.4	1702.7	1872.8	2045.2	2205.7	2413.6
12.5°	1388.6	1395.7	1393.3	1419.3	1473.6	1485.5	1596.4	1783.0	1983.8	2189.2	2451.4
15°	1433.5	1438.2	1414.6	1400.4	1447.7	1459.5	1563.4	1728.7	1943.6	2198.7	2512.8
17.5°	1523.2	1506.7	1459.5	1438.2	1478.4	1485.5	1582.3	1726.3	1938.9	2224.6	2583.6
20°	1575.2	1594.1	1511.4	1471.3	1528.0	1537.4	1641.3	1764.1	1962.5	2269.5	2682.8
22.5°	1667.3	1676.7	1565.7	1539.8	1594.1	1594.1	1712.2	1839.7	2019.2	2342.7	2800.9
25°	1797.2	1785.4	1655.5	1629.5	1681.5	1702.7	1820.8	1960.1	2106.6	2411.2	2909.5
27.5°	1898.7	1905.8	1799.5	1731.1	1818.4	1832.6	1960.1	2090.0	2172.7	2467.9	3041.8
30°	2049.9	2035.7	1922.4	1844.4	1953.1	1955.4	2078.2	2212.8	2300.2	2569.4	3240.1
32.5°	2229.4	2201.0	2071.1	1960.1	2047.5	2068.8	2193.9	2389.9	2498.6	2760.7	3547.1
35°	2609.6	2541.1	2328.5	2156.2	2163.2	2172.7	2366.3	2647.4	2772.5	3004.0	3958.1
37.5°	3164.6	3136.2	2895.3	2567.1	2441.9	2413.6	2630.8	2987.4	3143.3	3325.1	4491.8
40°	3714.8	3674.7	3450.3	3202.3	2975.6	2919.0	3027.6	3438.5	3580.2	3771.5	5039.7
42.5°	4326.5	4255.6	3991.1	3790.4	3648.7	3587.3	3544.8	4005.3	4165.9	4295.8	5575.8
45°	4945.2	4829.5	4446.9	4293.4	4217.8	4184.8	4180.0	4718.5	4815.3	4841.3	6170.9
47.5°	5488.4	5363.2	5016.1	4843.7	4787.0	4777.5	5042.0	5540.3	5464.8	5396.3	6834.5
50°	5906.4	5826.1	5575.8	5514.4	5471.9	5455.3	6074.1	6385.8	6036.3	5915.8	7417.8
52.5°	6553.5	6374.0	6090.6	6111.8	6260.6	6263.0	7120.3	7188.7	6511.0	6272.4	7968.1
55°	7070.7	6952.6	6721.1	6690.4	7082.5	7125.0	8057.8	7798.0	6775.5	6612.5	8171.2
57.5°	7680.0	7625.6	7458.0	7462.7	7873.6	7963.3	8891.5	8312.9	6995.1	6832.1	8201.9
60°	8560.8	8405.0	8317.6	8357.7	8841.9	8929.2	9699.1	8683.6	7101.4	6976.2	8126.3
62.5°	9533.8	9352.0	9257.5	9463.0	10169.1	10183.3	10313.2	9011.9	7035.2	7014.0	7639.8
65°	10705.2	10525.7	10450.1	10863.4	11701.8	11649.8	11175.1	9151.2	6825.1	6633.8	6362.2
67.5°	11871.8	11763.2	11607.3	12266.2	13310.0	13310.0	12070.2	9099.3	6274.8	5325.4	4161.2
70°	12424.4	12500.0	12748.0	13782.4	14890.0	14776.6	12953.4	8501.8	4671.3	2859.9	1636.6
72°	12056.0	11978.1	12618.1	14278.3	15862.9	15676.4	12804.6	6758.9	2699.3	1254.0	569.1
72.5°	11423.1	11496.3	12377.2	14209.8	15681.1	15834.6	12441.0	6234.7	2219.9	999.0	429.8
75°	7004.5	7129.7	9238.6	12065.5	13664.3	13491.9	9623.6	2970.9	852.5	425.1	153.5
77.5°	2557.6	2661.5	4482.3	7592.6	9718.0	9609.4	5568.7	1055.6	462.9	316.5	77.9
80°	666.0	720.3	1523.2	3502.3	5715.1	5722.2	2330.9	422.7	314.1	259.8	47.2
82.5°	132.3	146.4	467.6	1362.6	2671.0	2635.6	736.8	226.7	236.2	212.5	33.1
85°	16.5	21.3	99.2	462.9	864.3	774.6	181.8	113.4	174.8	165.3	21.3
87.5°	2.4	2.4	23.6	106.3	181.8	177.1	37.8	35.4	77.9	101.5	11.8
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°	2389.9	2389.9	2389.9	2389.9	2389.9	2389.9	2389.9	2389.9	2389.9	2389.9	2389.9
2.5°	2415.9	2425.4	2458.4	2486.8	2519.8	2529.3	2515.1	2538.7	2505.7	2524.6	2529.3
5°	2420.7	2475.0	2536.4	2576.5	2567.1	2543.5	2524.6	2460.8	2415.9	2399.4	2434.8
7.5°	2453.7	2515.1	2581.2	2581.2	2529.3	2406.5	2288.4	2175.0	2080.6	2033.3	2073.5
10°	2496.2	2560.0	2628.5	2538.7	2345.1	2120.7	1953.1	1740.5	1596.4	1520.9	1528.0
12.5°	2552.9	2642.6	2666.3	2458.4	2137.3	1804.3	1499.6	1204.4	1067.4	958.8	961.2
15°	2626.1	2713.5	2642.6	2283.7	1872.8	1381.5	1015.5	734.5	625.8	569.1	569.1
17.5°	2722.9	2789.1	2635.6	2123.1	1516.2	944.6	623.5	495.9	472.3	462.9	462.9
20°	2836.3	2885.9	2567.1	1872.8	1126.5	606.9	458.2	444.0	446.3	441.6	441.6
22.5°	2963.8	2980.4	2489.1	1582.3	762.8	448.7	427.5	429.8	432.2	427.5	429.8
25°	3098.4	3053.6	2375.8	1242.2	507.7	408.6	413.3	418.0	420.4	422.7	422.7
27.5°	3249.6	3159.8	2217.6	909.2	396.8	384.9	399.1	413.3	415.6	415.6	413.3
30°	3471.6	3322.8	2064.0	616.4	349.5	359.0	382.6	399.1	410.9	410.9	408.6
32.5°	3752.6	3492.8	1849.1	420.4	323.5	328.3	347.2	380.2	406.2	408.6	401.5
35°	4142.3	3698.3	1624.8	335.3	304.6	307.0	318.8	344.8	389.7	403.8	401.5
37.5°	4553.2	3932.1	1346.1	302.3	290.5	288.1	295.2	316.5	356.6	392.0	394.4
40°	4990.1	4177.7	1053.3	285.8	278.7	273.9	276.3	285.8	316.5	361.3	370.8
42.5°	5401.0	4399.7	791.1	269.2	266.9	262.1	262.1	264.5	281.0	311.7	316.5
45°	5845.0	4581.5	602.2	257.4	250.3	252.7	243.2	238.5	250.3	252.7	250.3
47.5°	6260.6	4763.4	481.8	243.2	236.2	236.2	224.4	214.9	214.9	193.7	191.3
50°	6650.3	4862.6	384.9	224.4	222.0	219.6	203.1	186.6	172.4	146.4	141.7
52.5°	6973.8	4857.8	297.6	200.7	207.8	200.7	174.8	151.1	129.9	106.3	101.5
55°	7070.7	4631.1	224.4	165.3	177.1	167.7	139.3	118.1	94.5	75.6	73.2
57.5°	6988.0	4286.3	170.0	127.5	137.0	127.5	106.3	87.4	66.1	52.0	47.2
60°	6711.7	3882.5	132.3	99.2	103.9	96.8	80.3	66.1	47.2	33.1	28.3
62.5°	6187.4	3377.1	101.5	77.9	75.6	75.6	61.4	49.6	33.1	18.9	16.5
65°	5077.5	2633.2	77.9	54.3	54.3	54.3	47.2	35.4	21.3	9.4	4.7
67.5°	3188.2	1532.7	63.8	42.5	40.1	40.1	33.1	23.6	11.8	2.4	0.0
70°	1199.7	562.1	49.6	33.1	30.7	30.7	23.6	14.2	7.1	0.0	0.0
72°	413.3	214.9	40.1	23.6	23.6	21.3	16.5	11.8	4.7	0.0	0.0
72.5°	340.1	172.4	37.8	23.6	21.3	21.3	16.5	11.8	4.7	0.0	0.0
75°	122.8	70.8	26.0	16.5	14.2	14.2	11.8	7.1	2.4	0.0	0.0
77.5°	61.4	44.9	21.3	14.2	11.8	7.1	7.1	4.7	2.4	0.0	0.0
80°	37.8	28.3	11.8	9.4	7.1	4.7	2.4	2.4	0.0	0.0	0.0
82.5°	26.0	16.5	7.1	7.1	4.7	2.4	0.0	0.0	0.0	0.0	0.0
85°	16.5	7.1	4.7	4.7	2.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.1	4.7	2.4	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)