

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: P483208

Luminaire Tested: **IFLD-M-SA4B-735-U-T4FT-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483208
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-735-U-T4FT-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens with House Side Shield
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

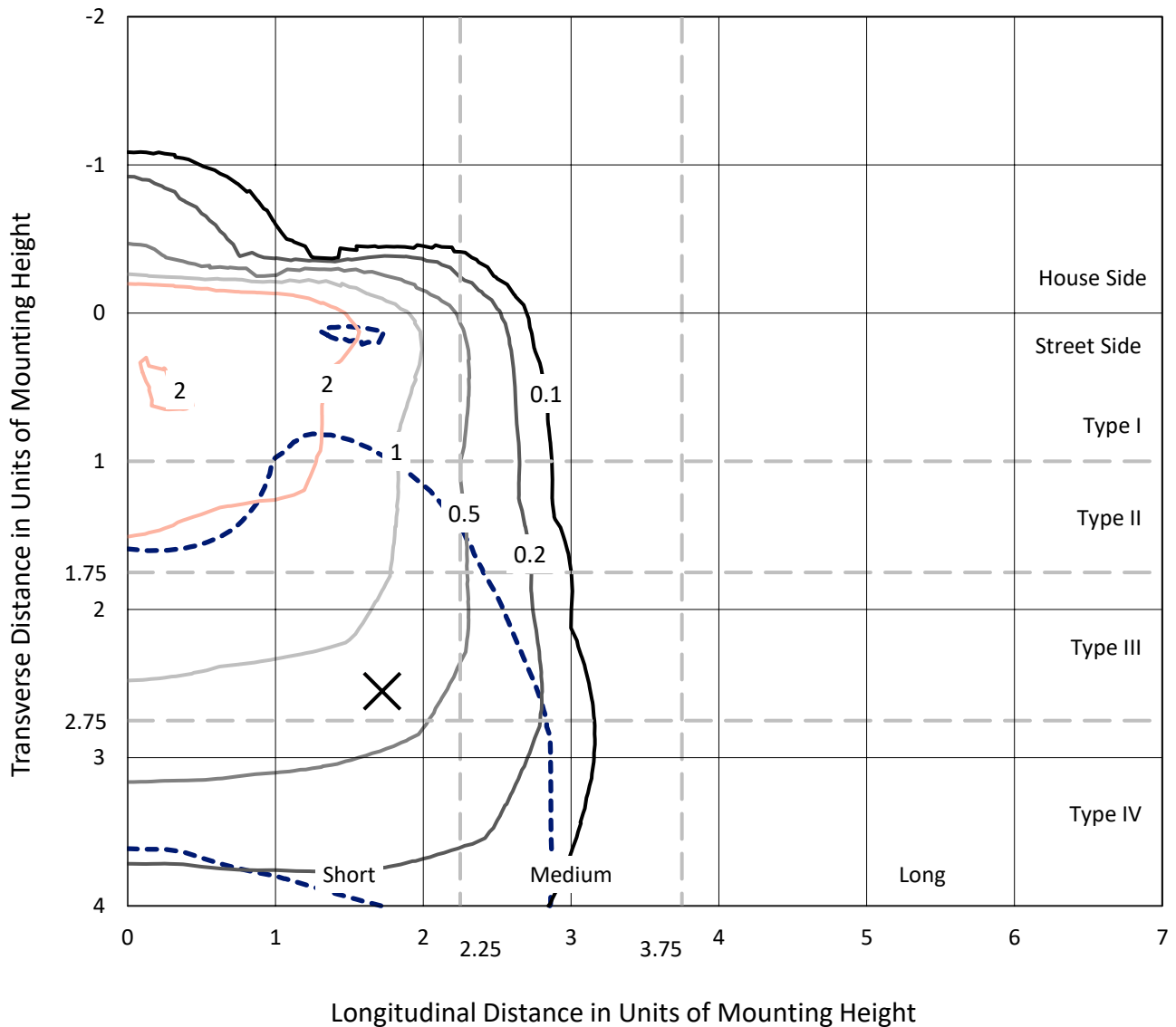
Lumens per Lamp: N/A
Luminaire Lumens: 16288.7 lumens
Efficiency: N/A
Efficacy: 98.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 166.1
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

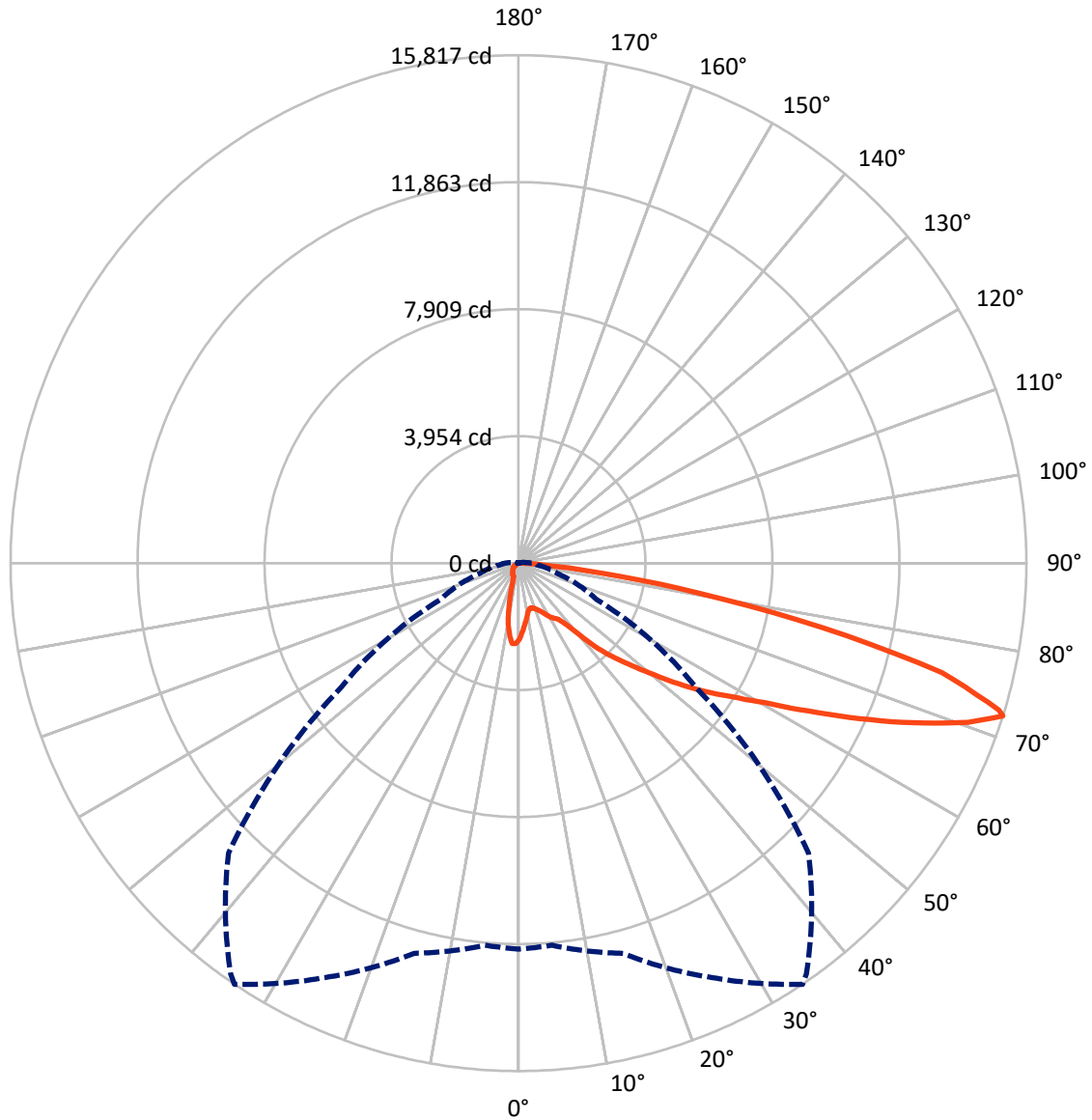
× Max cd
 - - - 1/2 Max cd



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	1667.6	0.0	1667.6
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	14621.1	0.0	14621.1
	% Fixture	89.8	0.0	89.8
Total	Lumens	16288.7	0.0	16288.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	206.9	1.3
10°-20°	468.4	2.9
20°-30°	706.9	4.3
30°-40°	1147.2	7.0
40°-50°	2157.2	13.2
50°-60°	3527.1	21.7
60°-70°	4688.8	28.8
70°-80°	3140.1	19.3
80°-90°	246.1	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°	16288.7	100.0
0°-180°	16288.7	100.0

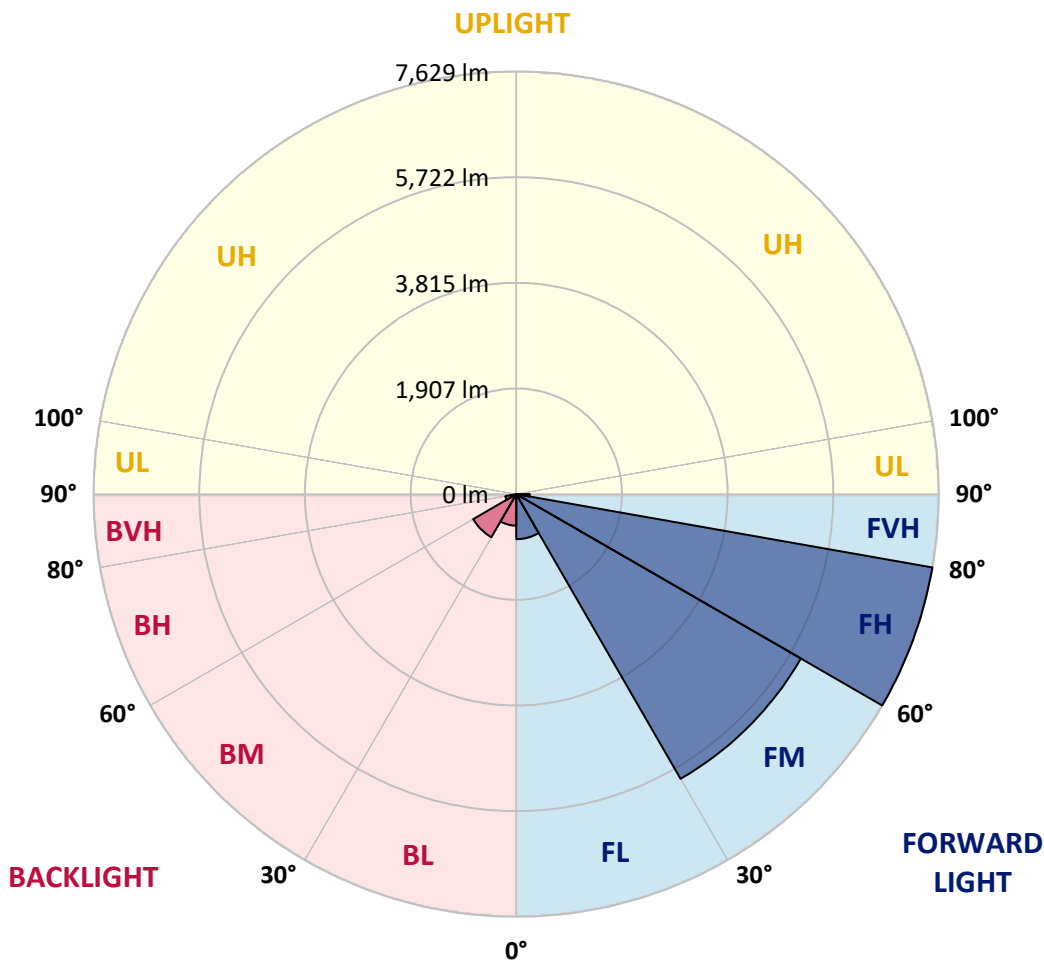


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	813.2	5.0			
FM (30°-60°)	5933.9	36.4			
FH (60°-80°)	7629.5	46.8			G4/12000
FVH (80°-90°)	244.5	1.5			G3/500
BL (0°-30°)	569.0	3.5	B2/1000		
BM (30°-60°)	897.6	5.5	B1/1000		
BH (60°-80°)	199.4	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°	2383.0	2383.0	2383.0	2383.0	2383.0	2383.0	2383.0	2383.0	2383.0	2383.0	2383.0
2.5°	2107.5	2102.8	2117.0	2140.5	2164.0	2154.6	2199.4	2246.5	2279.4	2324.2	2378.3
5°	1841.4	1853.2	1867.3	1914.4	1945.1	1952.1	2034.5	2095.8	2197.0	2300.6	2397.2
7.5°	1598.9	1613.0	1641.3	1693.1	1756.7	1773.2	1855.6	1978.0	2109.9	2246.5	2404.2
10°	1422.3	1436.4	1467.0	1500.0	1584.8	1584.8	1697.8	1867.3	2039.2	2199.4	2406.6
12.5°	1384.6	1391.7	1389.3	1415.2	1469.4	1481.2	1591.8	1777.9	1978.0	2182.9	2444.3
15°	1429.4	1434.1	1410.5	1396.4	1443.5	1455.3	1558.9	1723.7	1938.0	2192.3	2505.5
17.5°	1518.8	1502.4	1455.3	1434.1	1474.1	1481.2	1577.7	1721.3	1933.3	2218.2	2576.1
20°	1570.6	1589.5	1507.1	1467.0	1523.5	1533.0	1636.6	1759.0	1956.8	2263.0	2675.0
22.5°	1662.5	1671.9	1561.2	1535.3	1589.5	1589.5	1707.2	1834.4	2013.3	2335.9	2792.8
25°	1792.0	1780.2	1650.7	1624.8	1676.6	1697.8	1815.5	1954.5	2100.5	2404.2	2901.1
27.5°	1893.2	1900.3	1794.3	1726.1	1813.2	1827.3	1954.5	2084.0	2166.4	2460.8	3033.0
30°	2044.0	2029.8	1916.8	1839.1	1947.4	1949.8	2072.2	2206.4	2293.6	2562.0	3230.8
32.5°	2222.9	2194.7	2065.1	1954.5	2041.6	2062.8	2187.6	2383.0	2491.4	2752.7	3536.9
35°	2602.0	2533.8	2321.8	2149.9	2157.0	2166.4	2359.5	2639.7	2764.5	2995.3	3946.6
37.5°	3155.4	3127.2	2887.0	2559.7	2434.8	2406.6	2623.2	2978.8	3134.2	3315.5	4478.8
40°	3704.1	3664.0	3440.3	3193.1	2967.0	2910.5	3018.8	3428.6	3569.9	3760.6	5025.1
42.5°	4314.0	4243.3	3979.6	3779.4	3638.1	3576.9	3534.5	3993.7	4153.8	4283.4	5559.7
45°	4930.9	4815.5	4434.1	4281.0	4205.6	4172.7	4168.0	4704.9	4801.4	4827.3	6153.1
47.5°	5472.5	5347.7	5001.6	4829.7	4773.2	4763.7	5027.5	5524.3	5449.0	5380.7	6814.8
50°	5889.3	5809.3	5559.7	5498.4	5456.0	5439.6	6056.5	6367.3	6018.8	5898.7	7396.4
52.5°	6534.5	6355.6	6073.0	6094.2	6242.5	6244.9	7099.7	7168.0	6492.1	6254.3	7945.1
55°	7050.2	6932.5	6701.7	6671.1	7062.0	7104.4	8034.5	7775.5	6755.9	6593.4	8147.6
57.5°	7657.8	7603.6	7436.4	7441.1	7850.9	7940.3	8865.8	8288.9	6974.9	6812.4	8178.2
60°	8536.1	8380.7	8293.6	8333.6	8816.3	8903.5	9671.1	8658.6	7080.8	6956.0	8102.8
62.5°	9506.3	9325.0	9230.8	9435.6	10139.7	10153.8	10283.4	8985.9	7014.9	6993.7	7617.7
65°	10674.2	10495.3	10419.9	10832.0	11668.0	11616.2	11142.9	9124.8	6805.3	6614.6	6343.8
67.5°	11837.5	11729.2	11573.8	12230.8	13271.6	13271.6	12035.3	9073.0	6256.7	5310.0	4149.1
70°	12388.5	12463.9	12711.1	13742.5	14846.9	14733.9	12916.0	8477.2	4657.8	2851.6	1631.9
72°	12021.2	11943.5	12581.6	14237.0	15817.1	15631.1	12767.7	6739.4	2691.5	1250.4	567.5
72.5°	11390.1	11463.1	12341.4	14168.8	15635.8	15788.8	12405.0	6216.6	2213.5	996.1	428.6
75°	6984.3	7109.1	9211.9	12030.6	13624.8	13452.9	9595.8	2962.3	850.1	423.9	153.1
77.5°	2550.2	2653.8	4469.4	7570.6	9689.9	9581.6	5552.6	1052.6	461.5	315.5	77.7
80°	664.0	718.2	1518.8	3492.1	5698.6	5705.6	2324.2	421.5	313.2	259.0	47.1
82.5°	131.9	146.0	466.2	1358.7	2663.3	2627.9	734.7	226.1	235.5	211.9	33.0
85°	16.5	21.2	98.9	461.5	861.9	772.4	181.3	113.0	174.3	164.8	21.2
87.5°	2.4	2.4	23.5	106.0	181.3	176.6	37.7	35.3	77.7	101.3	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°	2383.0	2383.0	2383.0	2383.0	2383.0	2383.0	2383.0	2383.0	2383.0	2383.0	2383.0
2.5°	2408.9	2418.4	2451.3	2479.6	2512.6	2522.0	2507.8	2531.4	2498.4	2517.3	2522.0
5°	2413.7	2467.8	2529.0	2569.1	2559.7	2536.1	2517.3	2453.7	2408.9	2392.5	2427.8
7.5°	2446.6	2507.8	2573.8	2573.8	2522.0	2399.5	2281.8	2168.8	2074.6	2027.5	2067.5
10°	2489.0	2552.6	2620.9	2531.4	2338.3	2114.6	1947.4	1735.5	1591.8	1516.5	1523.5
12.5°	2545.5	2635.0	2658.6	2451.3	2131.1	1799.1	1495.3	1200.9	1064.4	956.0	958.4
15°	2618.5	2705.7	2635.0	2277.1	1867.3	1377.6	1012.6	732.3	624.0	567.5	567.5
17.5°	2715.1	2781.0	2627.9	2117.0	1511.8	941.9	621.7	494.5	471.0	461.5	461.5
20°	2828.1	2877.5	2559.7	1867.3	1123.2	605.2	456.8	442.7	445.1	440.3	440.3
22.5°	2955.3	2971.7	2481.9	1577.7	760.6	447.4	426.2	428.6	430.9	426.2	428.6
25°	3089.5	3044.7	2368.9	1238.6	506.3	407.4	412.1	416.8	419.2	421.5	421.5
27.5°	3240.2	3150.7	2211.1	906.6	395.6	383.8	398.0	412.1	414.4	414.4	412.1
30°	3461.5	3313.2	2058.1	614.6	348.5	357.9	381.5	398.0	409.7	409.7	407.4
32.5°	3741.8	3482.7	1843.8	419.2	322.6	327.3	346.2	379.1	405.0	407.4	400.3
35°	4130.3	3687.6	1620.1	334.4	303.8	306.1	317.9	343.8	388.5	402.7	400.3
37.5°	4540.0	3920.7	1342.2	301.4	289.6	287.3	294.3	315.5	355.6	390.9	393.2
40°	4975.7	4165.6	1050.2	284.9	277.9	273.2	275.5	284.9	315.5	360.3	369.7
42.5°	5385.4	4387.0	788.9	268.4	266.1	261.4	261.4	263.7	280.2	310.8	315.5
45°	5828.1	4568.3	600.5	256.7	249.6	252.0	242.5	237.8	249.6	252.0	249.6
47.5°	6242.5	4749.6	480.4	242.5	235.5	235.5	223.7	214.3	214.3	193.1	190.7
50°	6631.1	4848.5	383.8	223.7	221.3	219.0	202.5	186.0	171.9	146.0	141.3
52.5°	6953.7	4843.8	296.7	200.2	207.2	200.2	174.3	150.7	129.5	106.0	101.3
55°	7050.2	4617.7	223.7	164.8	176.6	167.2	138.9	117.7	94.2	75.4	73.0
57.5°	6967.8	4273.9	169.5	127.2	136.6	127.2	106.0	87.1	65.9	51.8	47.1
60°	6692.3	3871.3	131.9	98.9	103.6	96.5	80.1	65.9	47.1	33.0	28.3
62.5°	6169.5	3367.3	101.3	77.7	75.4	75.4	61.2	49.5	33.0	18.8	16.5
65°	5062.8	2625.6	77.7	54.2	54.2	54.2	47.1	35.3	21.2	9.4	4.7
67.5°	3179.0	1528.3	63.6	42.4	40.0	40.0	33.0	23.5	11.8	2.4	0.0
70°	1196.2	560.4	49.5	33.0	30.6	30.6	23.5	14.1	7.1	0.0	0.0
72°	412.1	214.3	40.0	23.5	23.5	21.2	16.5	11.8	4.7	0.0	0.0
72.5°	339.1	171.9	37.7	23.5	21.2	21.2	16.5	11.8	4.7	0.0	0.0
75°	122.4	70.6	25.9	16.5	14.1	14.1	11.8	7.1	2.4	0.0	0.0
77.5°	61.2	44.7	21.2	14.1	11.8	7.1	7.1	4.7	2.4	0.0	0.0
80°	37.7	28.3	11.8	9.4	7.1	4.7	2.4	2.4	0.0	0.0	0.0
82.5°	25.9	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)