

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: P483229

Luminaire Tested: **IFLD-S-SA3D-740-U-T4FT-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483229
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-740-U-T4FT-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens with House Side Shield
Light Source: (48) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

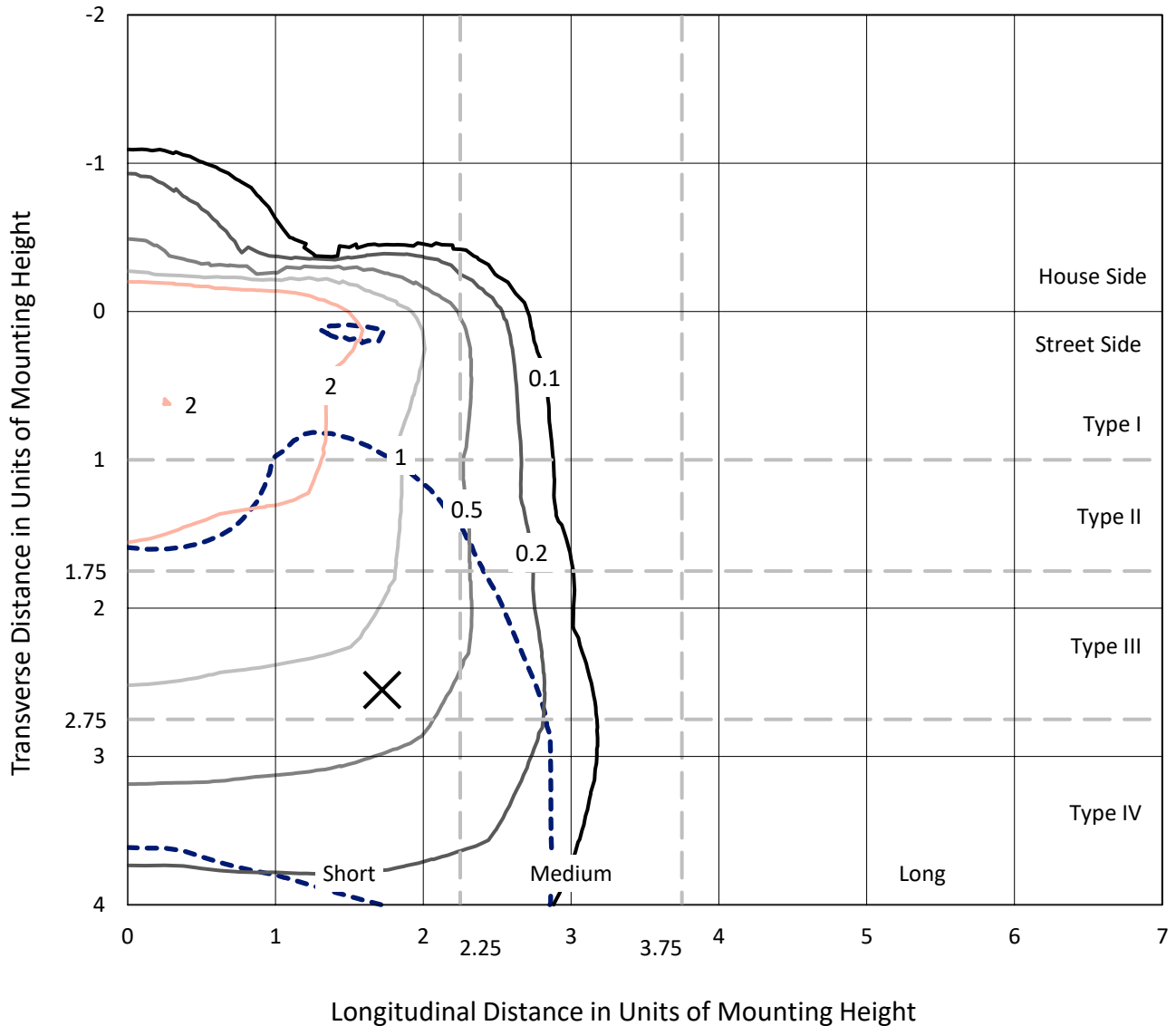
Lumens per Lamp: N/A
Luminaire Lumens: 16853 lumens
Efficiency: N/A
Efficacy: 91.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 184.1
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

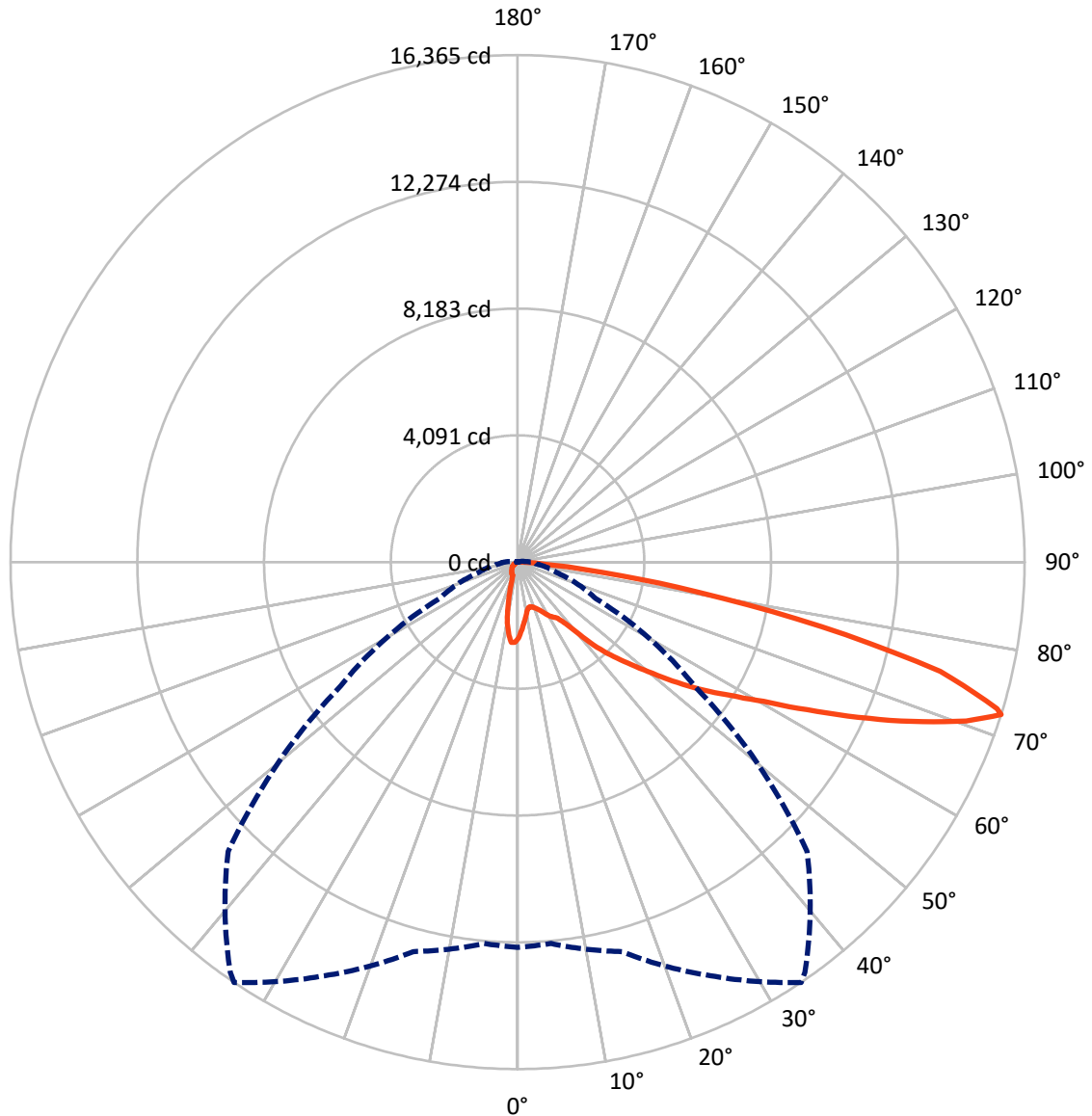
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 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	1725.3	0.0	1725.3
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	15127.7	0.0	15127.7
	% Fixture	89.8	0.0	89.8
Total	Lumens	16853.0	0.0	16853.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	214.0	1.3
10°-20°	484.6	2.9
20°-30°	731.4	4.3
30°-40°	1186.9	7.0
40°-50°	2232.0	13.2
50°-60°	3649.3	21.7
60°-70°	4851.3	28.8
70°-80°	3248.9	19.3
80°-90°	254.6	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°	16853.0	100.0
0°-180°	16853.0	100.0



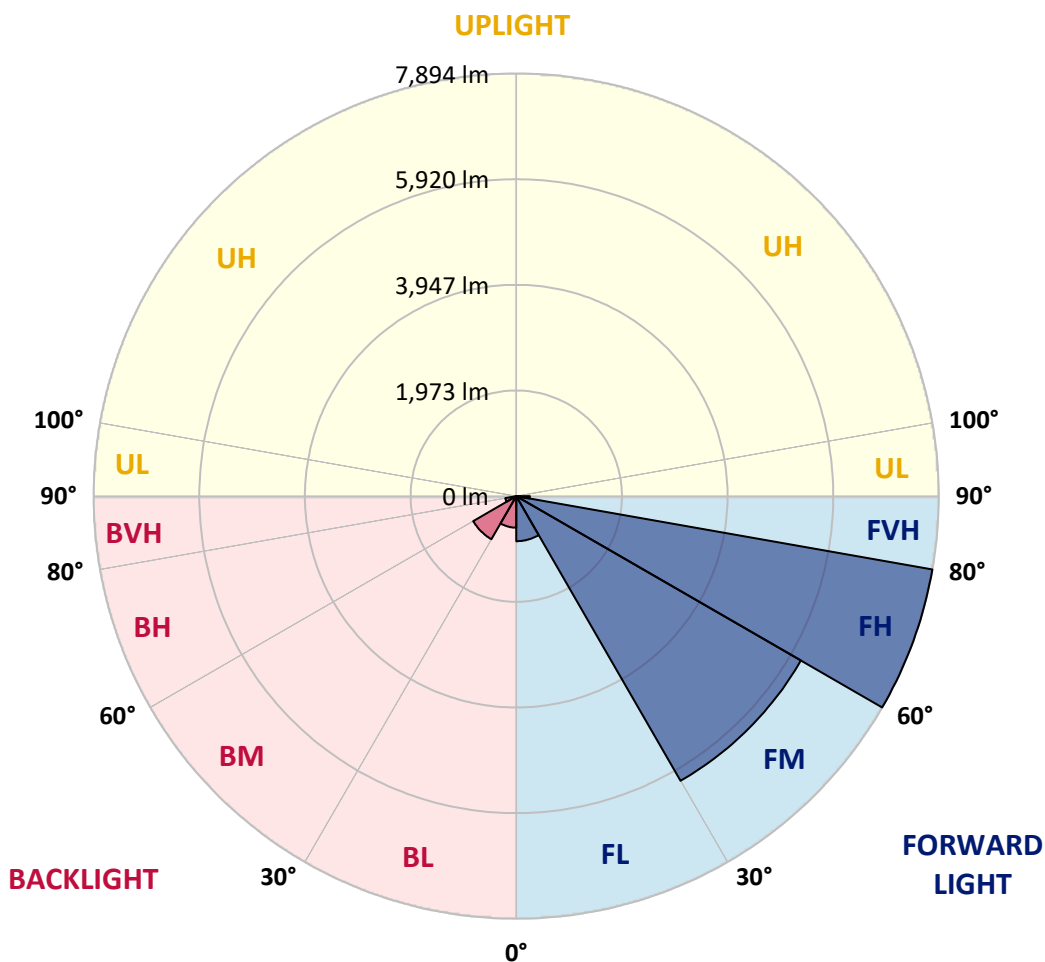
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	841.3	5.0			
FM	(30°-60°)	6139.5	36.4			
FH	(60°-80°)	7893.8	46.8			G4/12000
FVH	(80°-90°)	253.0	1.5			G3/500
BL	(0°-30°)	588.7	3.5	B2/1000		
BM	(30°-60°)	928.7	5.5	B1/1000		
BH	(60°-80°)	206.3	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°	2465.6	2465.6	2465.6	2465.6	2465.6	2465.6	2465.6	2465.6	2465.6	2465.6	2465.6
2.5°	2180.6	2175.7	2190.3	2214.7	2239.0	2229.3	2275.6	2324.3	2358.4	2404.7	2460.7
5°	1905.2	1917.4	1932.0	1980.8	2012.4	2019.8	2105.0	2168.4	2273.1	2380.3	2480.2
7.5°	1654.3	1668.9	1698.2	1751.8	1817.5	1834.6	1919.9	2046.6	2183.0	2324.3	2487.5
10°	1471.6	1486.2	1517.9	1552.0	1639.7	1639.7	1756.6	1932.0	2109.9	2275.6	2490.0
12.5°	1432.6	1439.9	1437.5	1464.3	1520.3	1532.5	1647.0	1839.5	2046.6	2258.5	2529.0
15°	1478.9	1483.8	1459.4	1444.8	1493.5	1505.7	1612.9	1783.4	2005.1	2268.3	2592.3
17.5°	1571.5	1554.4	1505.7	1483.8	1525.2	1532.5	1632.4	1781.0	2000.3	2295.1	2665.4
20°	1625.1	1644.6	1559.3	1517.9	1576.3	1586.1	1693.3	1820.0	2024.6	2341.4	2767.7
22.5°	1720.1	1729.8	1615.3	1588.5	1644.6	1644.6	1766.4	1897.9	2083.1	2416.9	2889.5
25°	1854.1	1841.9	1707.9	1681.1	1734.7	1756.6	1878.4	2022.2	2173.2	2487.5	3001.6
27.5°	1958.8	1966.2	1856.5	1785.9	1876.0	1890.6	2022.2	2156.2	2241.5	2546.0	3138.0
30°	2114.8	2100.2	1983.2	1902.8	2014.9	2017.3	2144.0	2282.9	2373.0	2650.8	3342.7
32.5°	2299.9	2270.7	2136.7	2022.2	2112.3	2134.3	2263.4	2465.6	2577.7	2848.1	3659.4
35°	2692.2	2621.5	2402.3	2224.4	2231.7	2241.5	2441.2	2731.2	2860.3	3099.1	4083.4
37.5°	3264.7	3235.5	2987.0	2648.3	2519.2	2490.0	2714.1	3082.0	3242.8	3430.4	4634.0
40°	3832.4	3791.0	3559.5	3303.7	3069.8	3011.4	3123.4	3547.4	3693.5	3890.9	5199.2
42.5°	4463.4	4390.3	4117.5	3910.4	3764.2	3700.8	3657.0	4132.1	4297.8	4431.8	5752.3
45°	5101.8	4982.4	4587.7	4429.3	4351.4	4317.3	4312.4	4867.9	4967.8	4994.6	6366.2
47.5°	5662.1	5533.0	5174.9	4997.0	4938.5	4928.8	5201.7	5715.7	5637.8	5567.1	7050.9
50°	6093.4	6010.5	5752.3	5688.9	5645.1	5628.0	6266.3	6588.0	6227.4	6103.1	7652.6
52.5°	6760.9	6575.8	6283.4	6305.3	6458.8	6461.3	7345.7	7416.3	6717.1	6471.0	8220.3
55°	7294.5	7172.7	6933.9	6902.2	7306.7	7350.5	8312.9	8044.9	6990.0	6821.8	8429.8
57.5°	7923.1	7867.0	7694.1	7698.9	8122.9	8215.4	9172.9	8576.0	7216.5	7048.4	8461.5
60°	8831.8	8671.0	8580.9	8622.3	9121.8	9211.9	10006.2	8958.5	7326.2	7197.0	8383.6
62.5°	9835.6	9648.0	9550.6	9762.5	10491.0	10505.6	10639.6	9297.2	7258.0	7236.0	7881.7
65°	11044.1	10858.9	10780.9	11207.3	12072.2	12018.6	11528.9	9440.9	7041.1	6843.8	6563.6
67.5°	12247.6	12135.6	11974.8	12654.5	13731.4	13731.4	12452.3	9387.3	6473.4	5494.0	4292.9
70°	12817.8	12895.7	13151.5	14218.7	15361.3	15244.4	13363.5	8770.9	4819.1	2950.4	1688.4
72°	12437.7	12357.3	13017.5	14730.3	16365.1	16172.6	13210.0	6972.9	2784.8	1293.7	587.2
72.5°	11784.7	11860.3	12769.0	14659.7	16177.5	16335.9	12834.8	6432.0	2290.2	1030.6	443.4
75°	7226.3	7355.4	9531.1	12447.4	14096.8	13919.0	9928.2	3065.0	879.5	438.5	158.4
77.5°	2638.6	2745.8	4624.2	7832.9	10025.7	9913.6	5745.0	1089.1	477.5	326.5	80.4
80°	687.1	743.1	1571.5	3613.1	5896.0	5903.3	2404.7	436.1	324.0	268.0	48.7
82.5°	136.4	151.1	482.4	1405.8	2755.5	2719.0	760.1	233.9	243.6	219.3	34.1
85°	17.1	21.9	102.3	477.5	891.7	799.1	187.6	116.9	180.3	170.5	21.9
87.5°	2.4	2.4	24.4	109.6	187.6	182.7	39.0	36.5	80.4	104.8	12.2
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°	2465.6	2465.6	2465.6	2465.6	2465.6	2465.6	2465.6	2465.6	2465.6	2465.6	2465.6
2.5°	2492.4	2502.2	2536.3	2565.5	2599.6	2609.4	2594.7	2619.1	2585.0	2604.5	2609.4
5°	2497.3	2553.3	2616.7	2658.1	2648.3	2624.0	2604.5	2538.7	2492.4	2475.4	2511.9
7.5°	2531.4	2594.7	2663.0	2663.0	2609.4	2482.7	2360.8	2243.9	2146.4	2097.7	2139.1
10°	2575.2	2641.0	2711.7	2619.1	2419.3	2187.9	2014.9	1795.6	1647.0	1569.0	1576.3
12.5°	2633.7	2726.3	2750.7	2536.3	2204.9	1861.4	1547.1	1242.5	1101.2	989.2	991.6
15°	2709.2	2799.4	2726.3	2356.0	1932.0	1425.3	1047.6	757.7	645.6	587.2	587.2
17.5°	2809.1	2877.4	2719.0	2190.3	1564.2	974.5	643.2	511.6	487.3	477.5	477.5
20°	2926.1	2977.2	2648.3	1932.0	1162.1	626.1	472.7	458.0	460.5	455.6	455.6
22.5°	3057.6	3074.7	2567.9	1632.4	786.9	462.9	441.0	443.4	445.9	441.0	443.4
25°	3196.5	3150.2	2451.0	1281.5	523.8	421.5	426.4	431.2	433.7	436.1	436.1
27.5°	3352.4	3259.9	2287.8	938.0	409.3	397.1	411.7	426.4	428.8	428.8	426.4
30°	3581.5	3428.0	2129.4	635.9	360.6	370.3	394.7	411.7	423.9	423.9	421.5
32.5°	3871.4	3603.4	1907.7	433.7	333.8	338.7	358.1	392.3	419.1	421.5	414.2
35°	4273.4	3815.4	1676.2	346.0	314.3	316.7	328.9	355.7	402.0	416.6	414.2
37.5°	4697.3	4056.6	1388.7	311.9	299.7	297.2	304.5	326.5	367.9	404.4	406.9
40°	5148.1	4309.9	1086.6	294.8	287.5	282.6	285.1	294.8	326.5	372.8	382.5
42.5°	5572.0	4539.0	816.2	277.7	275.3	270.4	270.4	272.9	289.9	321.6	326.5
45°	6030.0	4726.6	621.3	265.6	258.3	260.7	250.9	246.1	258.3	260.7	258.3
47.5°	6458.8	4914.2	497.0	250.9	243.6	243.6	231.5	221.7	221.7	199.8	197.3
50°	6860.8	5016.5	397.1	231.5	229.0	226.6	209.5	192.5	177.9	151.1	146.2
52.5°	7194.6	5011.6	307.0	207.1	214.4	207.1	180.3	155.9	134.0	109.6	104.8
55°	7294.5	4777.7	231.5	170.5	182.7	173.0	143.7	121.8	97.5	78.0	75.5
57.5°	7209.2	4422.0	175.4	131.6	141.3	131.6	109.6	90.1	68.2	53.6	48.7
60°	6924.2	4005.4	136.4	102.3	107.2	99.9	82.8	68.2	48.7	34.1	29.2
62.5°	6383.3	3484.0	104.8	80.4	78.0	78.0	63.3	51.2	34.1	19.5	17.1
65°	5238.2	2716.6	80.4	56.0	56.0	56.0	48.7	36.5	21.9	9.7	4.9
67.5°	3289.1	1581.2	65.8	43.9	41.4	41.4	34.1	24.4	12.2	2.4	0.0
70°	1237.7	579.9	51.2	34.1	31.7	31.7	24.4	14.6	7.3	0.0	0.0
72°	426.4	221.7	41.4	24.4	24.4	21.9	17.1	12.2	4.9	0.0	0.0
72.5°	350.8	177.9	39.0	24.4	21.9	21.9	17.1	12.2	4.9	0.0	0.0
75°	126.7	73.1	26.8	17.1	14.6	14.6	12.2	7.3	2.4	0.0	0.0
77.5°	63.3	46.3	21.9	14.6	12.2	7.3	7.3	4.9	2.4	0.0	0.0
80°	39.0	29.2	12.2	9.7	7.3	4.9	2.4	2.4	0.0	0.0	0.0
82.5°	26.8	17.1	7.3	7.3	4.9	2.4	0.0	0.0	0.0	0.0	0.0
85°	17.1	7.3	4.9	4.9	2.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.3	4.9	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)