

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: P483541

Luminaire Tested: **IFLD-S-SA3D-730-U-T4W-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483541
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-730-U-T4W-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens with House Side Shield
Light Source: (48) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

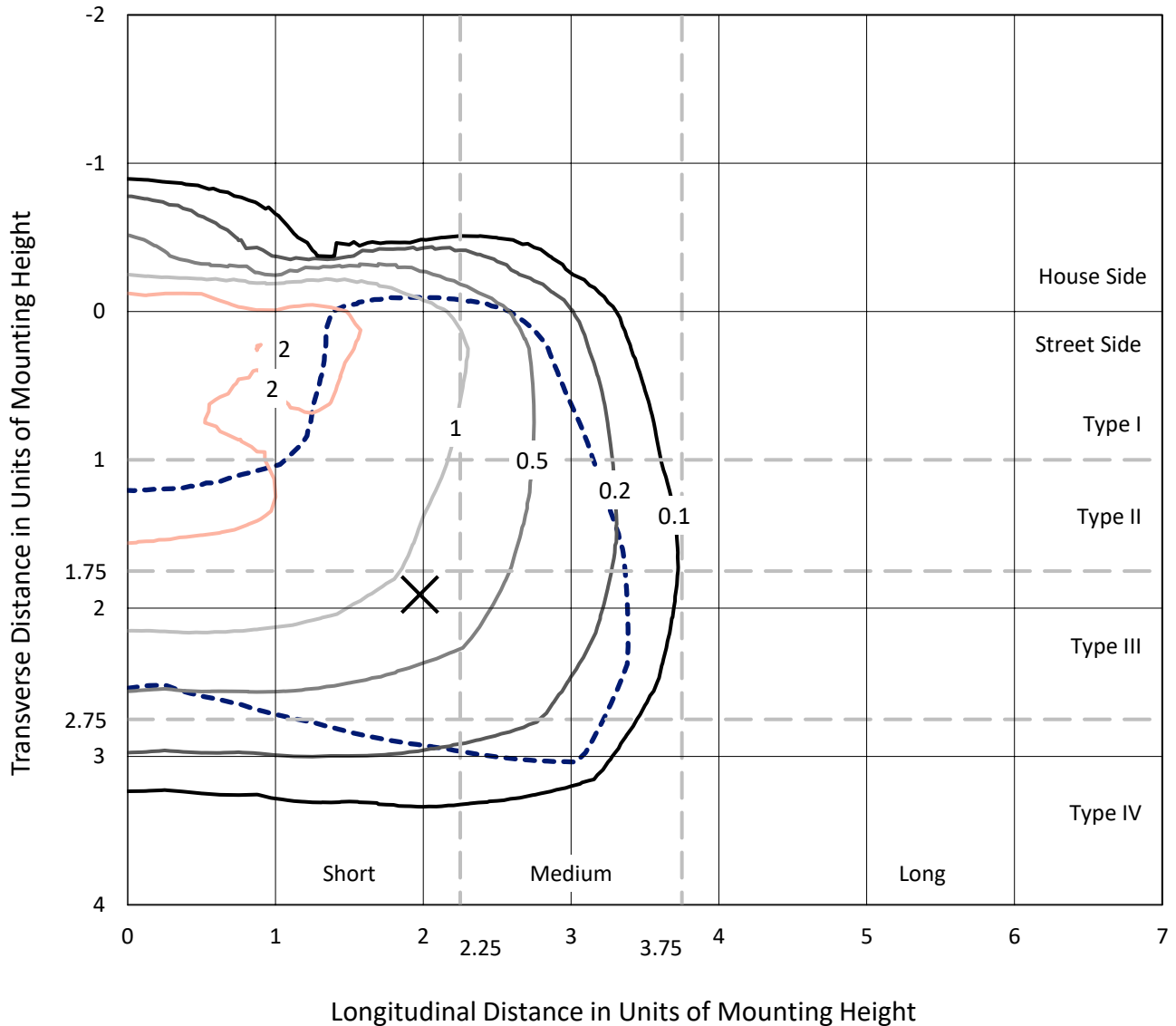
Lumens per Lamp: N/A
Luminaire Lumens: 15659.4 lumens
Efficiency: N/A
Efficacy: 85.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

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

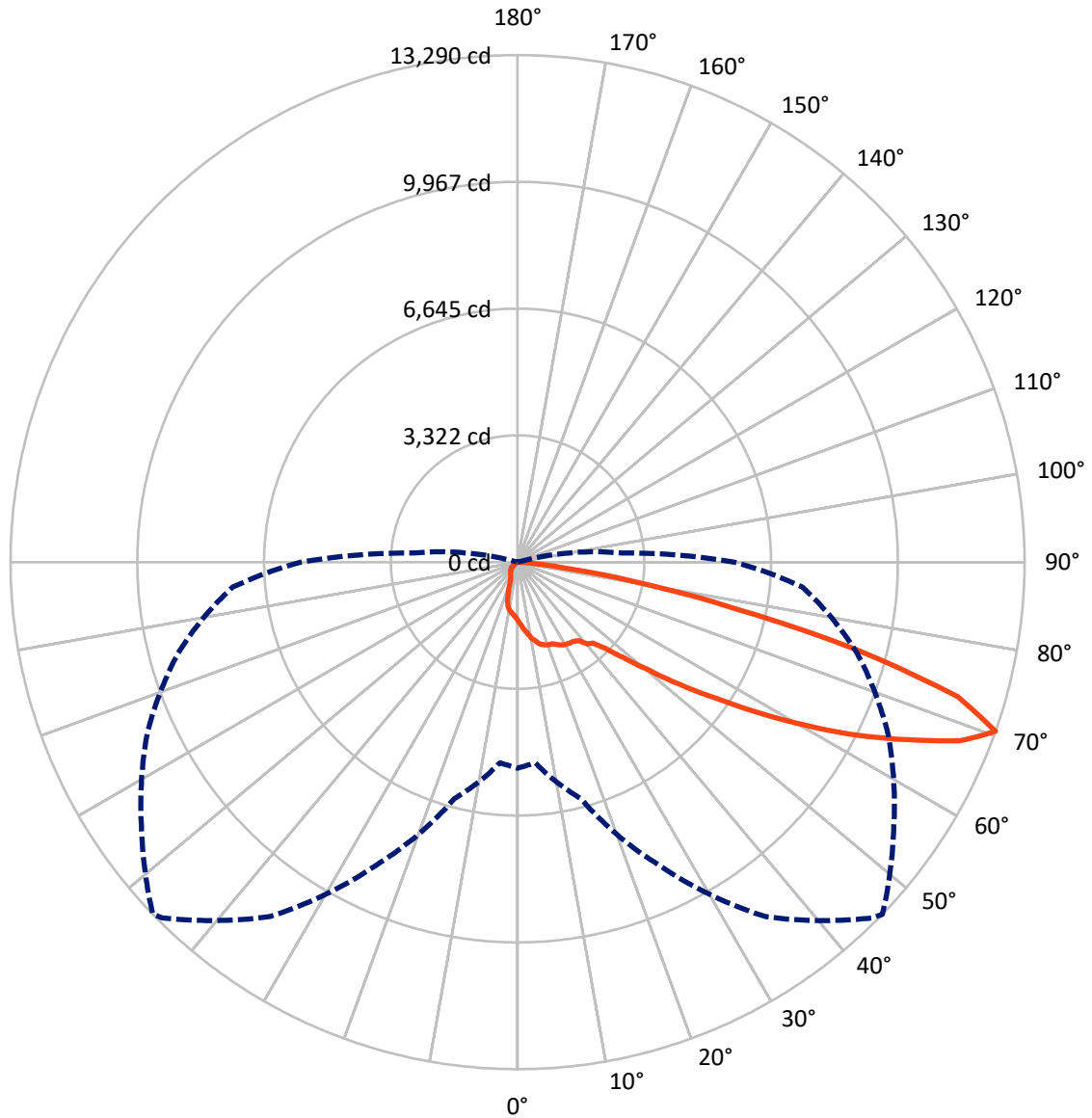
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1558.2	0.0	1558.2
	% Fixture	10.0	0.0	10.0
Street Side	Lumens	14101.2	0.0	14101.2
	% Fixture	90.0	0.0	90.0
Total	Lumens	15659.4	0.0	15659.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.3	1.0
10°-20°	462.9	3.0
20°-30°	741.5	4.7
30°-40°	1058.3	6.8
40°-50°	1827.5	11.7
50°-60°	3498.9	22.3
60°-70°	5181.2	33.1
70°-80°	2566.2	16.4
80°-90°	169.6	1.1
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°	15659.4	100.0
0°-180°	15659.4	100.0

Coefficient of Utilization

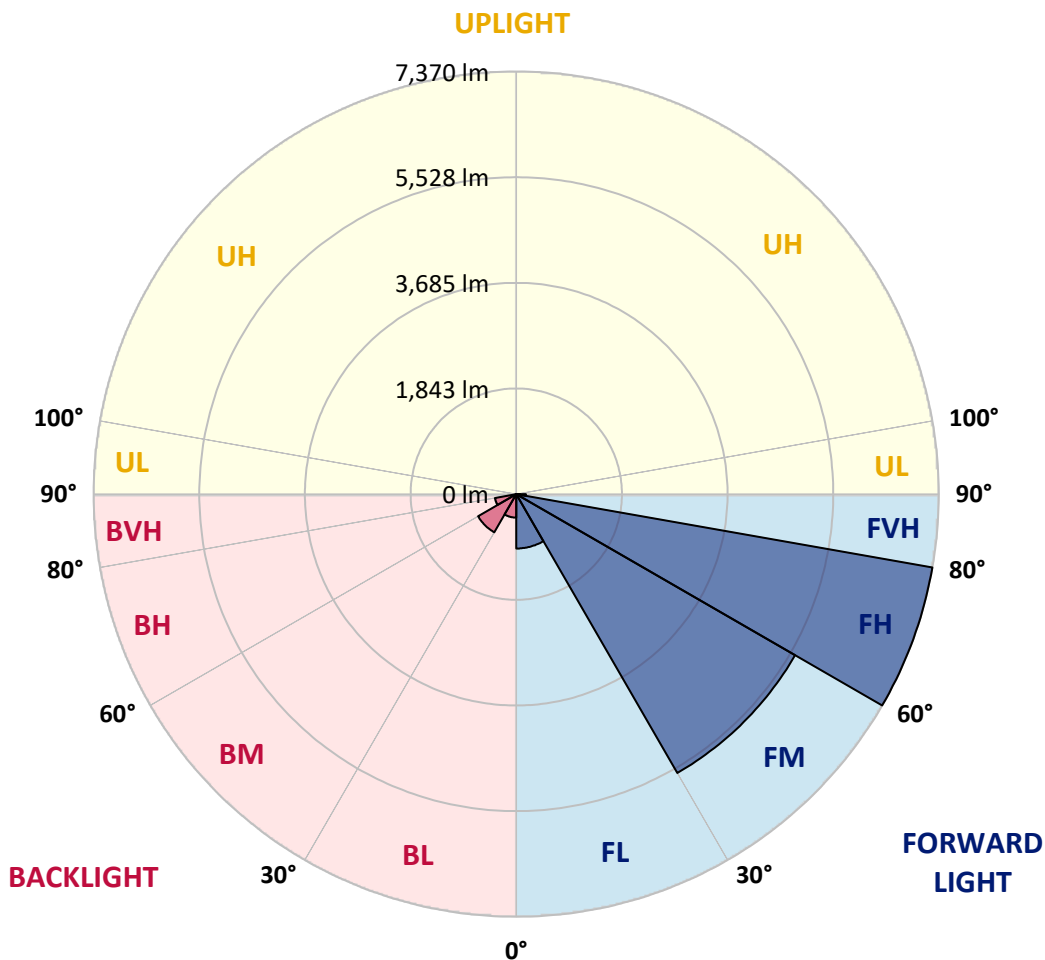


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	948.3	6.1			
FM (30°-60°)	5615.4	35.9			
FH (60°-80°)	7370.1	47.1			G3/7500
FVH (80°-90°)	167.4	1.1			G2/225
BL (0°-30°)	409.4	2.6	B1/500		
BM (30°-60°)	769.3	4.9	B1/1000		
BH (60°-80°)	377.4	2.4	B1/500		G1/500
BVH (80°-90°)	2.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1537.3	1537.3	1537.3	1537.3	1537.3	1537.3	1537.3	1537.3	1537.3	1537.3	1537.3
2.5°	1715.3	1704.1	1686.0	1679.3	1661.2	1652.2	1638.7	1631.9	1607.1	1582.3	1566.6
5°	1925.0	1897.9	1906.9	1879.9	1821.3	1773.9	1771.7	1719.8	1663.5	1618.4	1557.5
7.5°	2136.8	2114.3	2080.5	2042.2	1976.8	1906.9	1886.6	1837.0	1758.2	1679.3	1598.1
10°	2296.9	2281.1	2251.8	2197.7	2107.5	2028.6	2030.9	1947.5	1864.1	1773.9	1663.5
12.5°	2396.1	2402.8	2360.0	2305.9	2227.0	2127.8	2125.6	2069.2	1974.5	1879.9	1749.1
15°	2495.2	2520.0	2454.7	2391.5	2290.1	2218.0	2231.5	2163.9	2071.5	1963.3	1819.0
17.5°	2511.0	2517.8	2504.2	2411.8	2337.4	2276.6	2278.8	2233.8	2163.9	2046.7	1922.7
20°	2484.0	2479.5	2463.7	2396.1	2346.5	2310.4	2312.7	2301.4	2263.1	2168.4	1999.3
22.5°	2405.1	2405.1	2384.8	2339.7	2317.2	2351.0	2323.9	2366.8	2326.2	2269.8	2130.1
25°	2342.0	2366.8	2355.5	2326.2	2335.2	2380.3	2393.8	2434.4	2427.6	2357.7	2220.2
27.5°	2409.6	2380.3	2387.0	2353.2	2387.0	2454.7	2461.4	2490.7	2488.5	2432.1	2301.4
30°	2454.7	2481.7	2429.9	2355.5	2391.5	2506.5	2502.0	2540.3	2558.3	2490.7	2378.0
32.5°	2598.9	2576.4	2533.6	2434.4	2438.9	2504.2	2524.5	2574.1	2585.4	2544.8	2452.4
35°	2894.2	2860.4	2673.3	2524.5	2502.0	2533.6	2547.1	2644.0	2664.3	2619.2	2531.3
37.5°	3349.5	3272.9	3047.5	2718.4	2617.0	2610.2	2610.2	2738.7	2815.3	2711.6	2648.5
40°	4000.9	3892.7	3649.3	3076.8	2768.0	2795.0	2822.1	2891.9	2882.9	2815.3	2801.8
42.5°	4830.4	4747.0	4483.3	3678.6	3056.5	2921.2	2898.7	2993.4	3135.4	3108.3	3099.3
45°	5522.4	5526.9	5357.9	4503.6	3554.6	3212.0	3227.8	3299.9	3538.9	3518.6	3516.3
47.5°	6027.3	5964.2	5939.4	5299.3	4280.4	3764.3	3741.7	3791.3	4102.4	4230.8	4289.5
50°	6487.2	6444.3	6385.7	6072.4	5152.8	4456.3	4433.7	4438.2	4913.8	5094.1	5238.4
52.5°	7057.4	7111.5	6917.7	6726.1	6282.0	5355.6	5330.8	5242.9	5833.5	6081.4	6252.7
55°	7760.7	7659.3	7440.6	7539.8	7361.7	6327.1	6282.0	6178.3	6881.6	6985.3	7165.6
57.5°	7916.2	7839.6	8065.0	8416.6	8587.9	7467.7	7449.6	7262.5	7762.9	7668.3	8177.7
60°	8303.9	8324.2	8637.5	9336.3	9633.8	8784.0	8696.1	8367.0	8617.2	8635.3	9178.5
62.5°	8702.9	8655.5	9356.6	10028.3	10485.8	10030.5	10001.2	9347.5	9631.5	9401.6	10120.7
65°	8409.9	8482.0	9485.0	10609.8	11590.3	11250.0	11225.2	10292.0	10447.5	10161.2	10503.9
67.5°	7368.5	7222.0	8626.2	10343.8	12158.3	12528.0	12501.0	11322.1	10907.3	10156.7	9708.2
70°	5400.7	5274.5	6419.5	8759.2	11344.6	13181.7	13289.9	12038.9	10720.3	9210.0	7490.2
72.5°	2646.3	2648.5	3597.5	5939.4	8975.6	12014.1	12068.2	11038.1	9210.0	6789.2	4242.1
75°	782.2	791.2	1332.1	2912.2	5801.9	9124.4	9185.2	8378.3	6383.5	3507.3	1447.1
77.5°	286.3	286.3	441.8	1093.2	2894.2	5759.1	5754.6	5143.7	3232.3	1187.9	338.1
80°	148.8	155.5	229.9	446.3	1253.3	3000.1	3112.8	2517.8	1228.5	500.4	99.2
82.5°	60.9	67.6	126.2	229.9	601.8	1052.6	1151.8	987.3	534.2	349.4	45.1
85°	18.0	20.3	60.9	128.5	236.7	263.7	293.0	331.3	335.9	270.5	20.3
87.5°	2.3	2.3	24.8	42.8	51.8	56.4	65.4	65.4	171.3	189.3	11.3
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°	1537.3	1537.3	1537.3	1537.3	1537.3	1537.3	1537.3	1537.3	1537.3	1537.3	1537.3
2.5°	1548.5	1537.3	1519.2	1478.7	1469.6	1440.3	1438.1	1411.0	1420.1	1402.0	1395.3
5°	1537.3	1512.5	1462.9	1431.3	1399.8	1379.5	1366.0	1354.7	1352.4	1343.4	1338.9
7.5°	1557.5	1523.7	1447.1	1397.5	1343.4	1325.4	1296.1	1293.8	1278.0	1262.3	1262.3
10°	1625.2	1564.3	1480.9	1397.5	1327.6	1269.0	1201.4	1151.8	1133.8	1093.2	1097.7
12.5°	1679.3	1625.2	1503.5	1417.8	1311.9	1178.9	1030.1	915.1	861.0	809.2	829.5
15°	1755.9	1677.0	1546.3	1422.3	1251.0	1021.1	777.6	649.2	599.6	588.3	586.1
17.5°	1839.3	1755.9	1600.4	1411.0	1127.0	788.9	572.5	498.1	507.2	520.7	518.4
20°	1931.7	1830.3	1640.9	1372.7	930.9	572.5	468.8	466.6	480.1	500.4	504.9
22.5°	2028.6	1940.7	1690.5	1257.8	694.2	459.8	450.8	450.8	459.8	484.6	480.1
25°	2136.8	2019.6	1715.3	1079.7	498.1	423.8	428.3	437.3	441.8	462.1	464.3
27.5°	2220.2	2107.5	1722.1	865.6	405.7	392.2	403.5	414.7	421.5	437.3	444.0
30°	2296.9	2218.0	1686.0	644.7	371.9	365.2	369.7	385.4	399.0	412.5	412.5
32.5°	2393.8	2281.1	1602.6	457.6	351.6	340.4	338.1	344.9	360.6	376.4	376.4
35°	2493.0	2387.0	1469.6	367.4	333.6	317.8	308.8	302.0	308.8	320.1	329.1
37.5°	2637.2	2547.1	1302.8	338.1	320.1	297.5	279.5	263.7	252.5	250.2	257.0
40°	2842.4	2727.4	1088.7	317.8	304.3	277.2	250.2	223.2	198.4	182.6	184.8
42.5°	3153.4	2993.4	856.5	306.6	293.0	254.7	216.4	178.1	146.5	130.7	130.7
45°	3597.5	3345.0	628.9	295.3	279.5	227.7	178.1	133.0	101.4	92.4	94.7
47.5°	4266.9	3768.8	450.8	277.2	261.5	198.4	139.8	94.7	74.4	69.9	72.1
50°	5141.5	4271.4	351.6	257.0	238.9	166.8	103.7	69.9	58.6	56.4	58.6
52.5°	6058.9	4778.6	308.8	238.9	205.1	133.0	76.6	56.4	49.6	47.3	49.6
55°	6843.3	5105.4	268.2	211.9	164.5	99.2	60.9	49.6	42.8	36.1	36.1
57.5°	7636.7	5270.0	211.9	175.8	121.7	74.4	51.8	42.8	36.1	29.3	27.0
60°	8281.4	5387.2	151.0	130.7	85.7	58.6	45.1	38.3	29.3	22.5	20.3
62.5°	8705.1	5051.3	110.4	99.2	63.1	49.6	38.3	31.6	22.5	15.8	15.8
65°	8495.5	4587.0	85.7	69.9	47.3	38.3	31.6	22.5	15.8	9.0	6.8
67.5°	7623.2	3737.2	69.9	51.8	36.1	29.3	24.8	18.0	9.0	2.3	2.3
70°	5687.0	2738.7	56.4	38.3	29.3	22.5	18.0	11.3	4.5	2.3	0.0
72.5°	3110.6	1498.9	45.1	31.6	22.5	18.0	13.5	9.0	4.5	0.0	0.0
75°	1027.8	399.0	33.8	22.5	13.5	11.3	9.0	6.8	2.3	0.0	0.0
77.5°	247.9	103.7	27.0	20.3	11.3	6.8	4.5	2.3	2.3	0.0	0.0
80°	76.6	42.8	20.3	13.5	9.0	6.8	2.3	0.0	0.0	0.0	0.0
82.5°	31.6	20.3	9.0	9.0	6.8	2.3	0.0	0.0	0.0	0.0	0.0
85°	15.8	11.3	6.8	4.5	4.5	2.3	0.0	0.0	0.0	0.0	0.0
87.5°	11.3	4.5	2.3	2.3	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)