

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: P483618

Luminaire Tested: **IFLD-S-SA3C-740-U-T4W-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483618
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-740-U-T4W-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens with House Side Shield
Light Source: (48) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

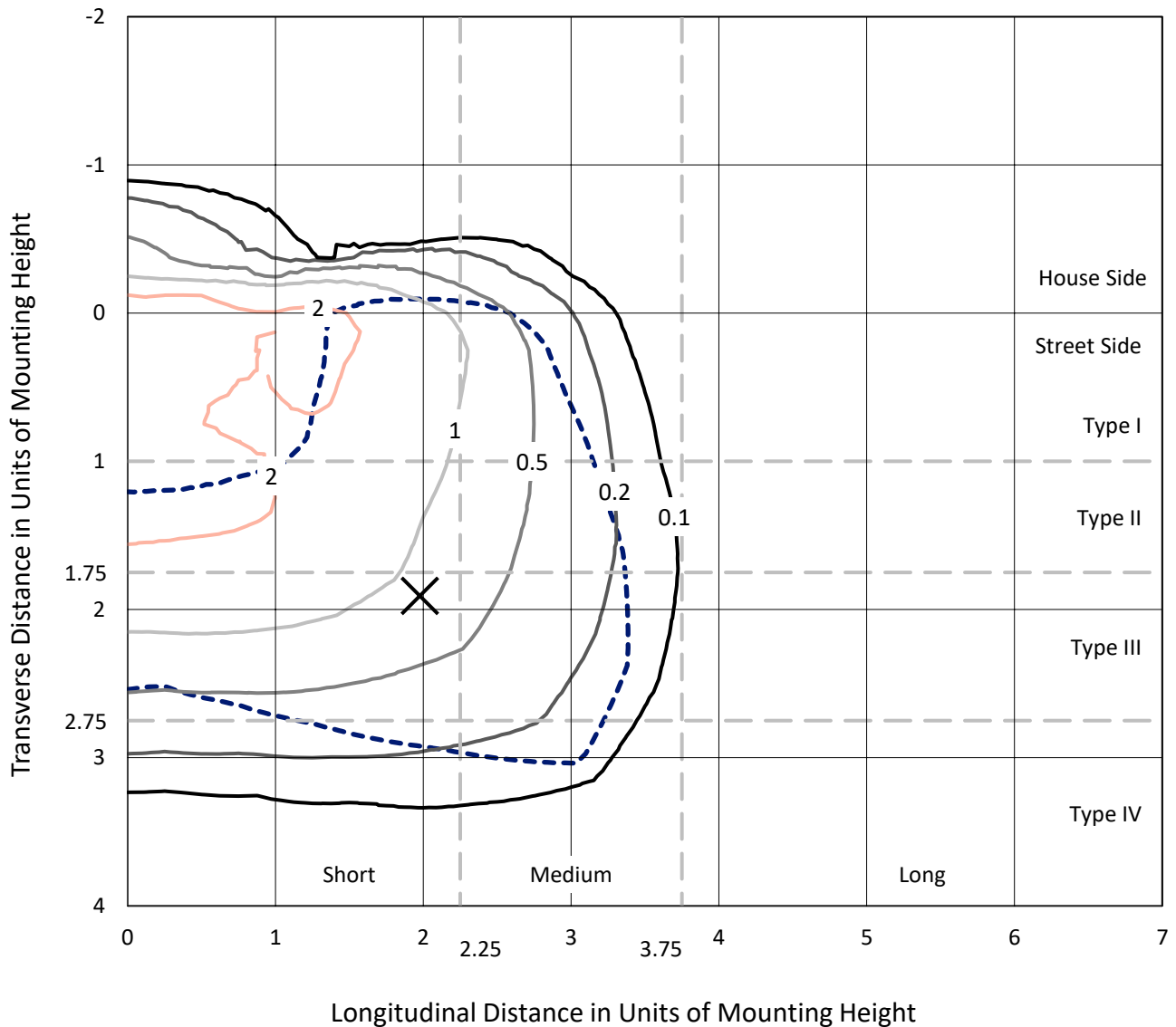
Lumens per Lamp: N/A
Luminaire Lumens: 15628.8 lumens
Efficiency: N/A
Efficacy: 97.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

Input Watts (W): 160.8
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

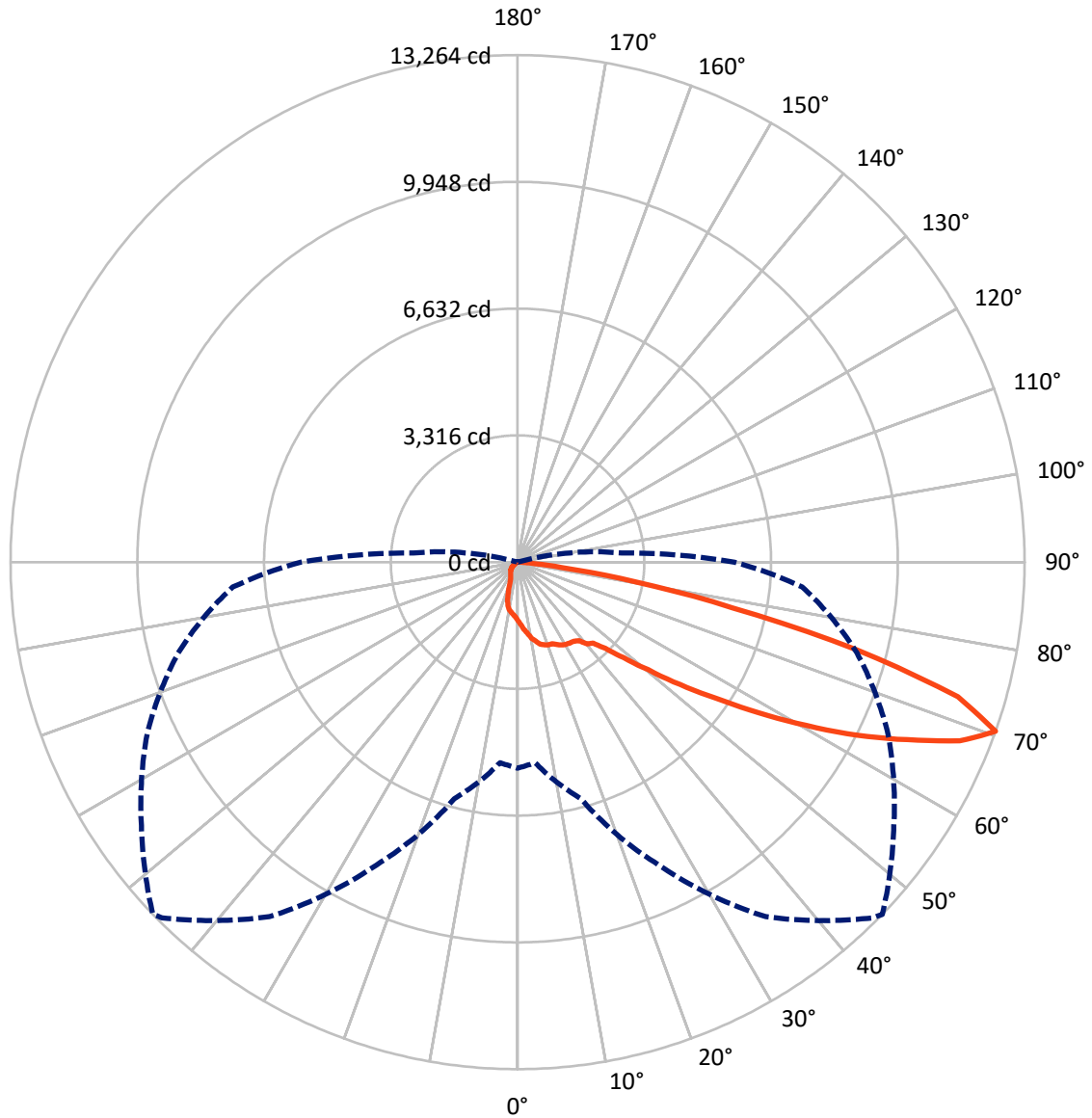
× Max cd
 - - - 1/2 Max cd



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	1555.1	0.0	1555.1
	% Fixture	10.0	0.0	10.0
Street Side	Lumens	14073.7	0.0	14073.7
	% Fixture	90.0	0.0	90.0
Total	Lumens	15628.8	0.0	15628.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.0	1.0
10°-20°	462.0	3.0
20°-30°	740.0	4.7
30°-40°	1056.3	6.8
40°-50°	1823.9	11.7
50°-60°	3492.0	22.3
60°-70°	5171.1	33.1
70°-80°	2561.2	16.4
80°-90°	169.2	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°	15628.8	100.0
0°-180°	15628.8	100.0

Coefficient of Utilization

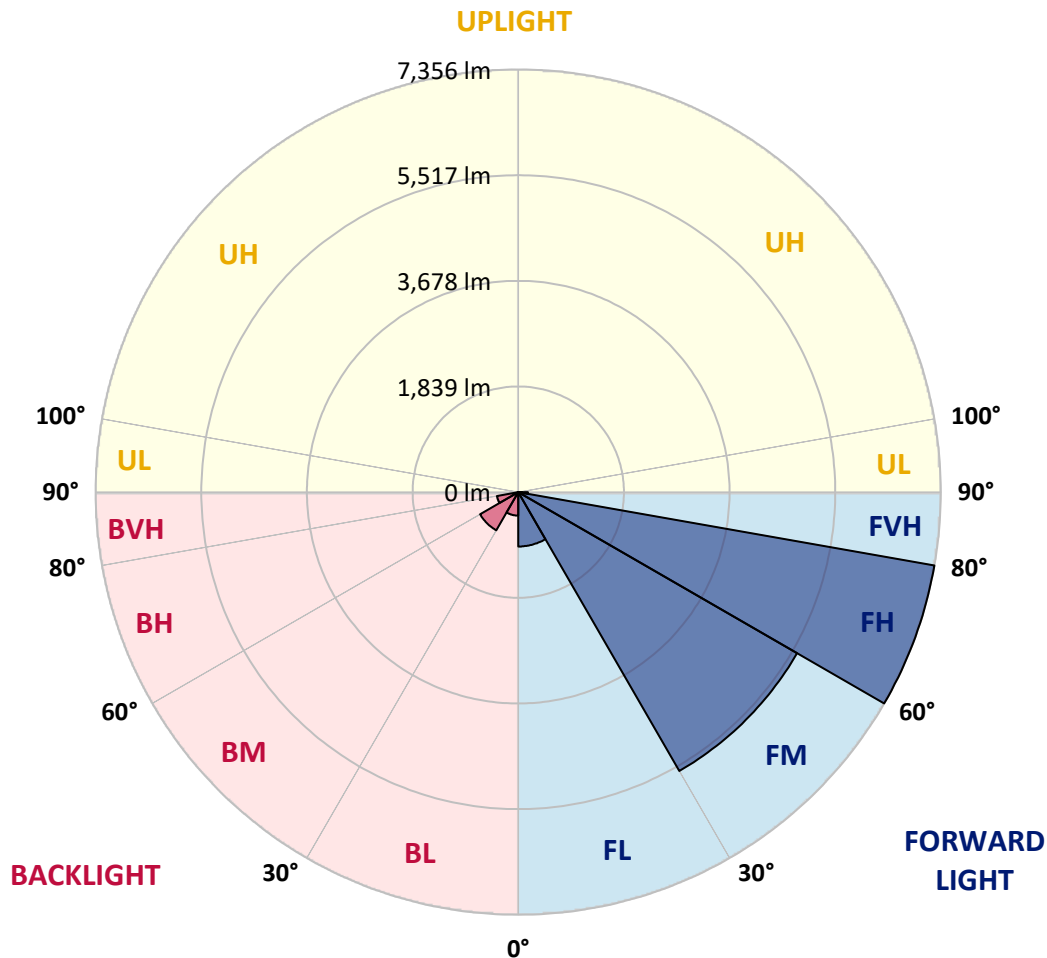


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	946.4	6.1			
FM (30°-60°)	5604.5	35.9			
FH (60°-80°)	7355.7	47.1			G3/7500
FVH (80°-90°)	167.1	1.1			G2/225
BL (0°-30°)	408.6	2.6	B1/500		
BM (30°-60°)	767.8	4.9	B1/1000		
BH (60°-80°)	376.6	2.4	B1/500		G1/500
BVH (80°-90°)	2.1	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°	1534.3	1534.3	1534.3	1534.3	1534.3	1534.3	1534.3	1534.3	1534.3	1534.3	1534.3
2.5°	1712.0	1700.7	1682.7	1676.0	1658.0	1649.0	1635.5	1628.7	1604.0	1579.3	1563.5
5°	1921.2	1894.2	1903.2	1876.2	1817.7	1770.5	1768.2	1716.5	1660.2	1615.3	1554.5
7.5°	2132.7	2110.2	2076.4	2038.2	1972.9	1903.2	1883.0	1833.5	1754.7	1676.0	1595.0
10°	2292.4	2276.6	2247.4	2193.4	2103.4	2024.7	2026.9	1943.7	1860.5	1770.5	1660.2
12.5°	2391.4	2398.1	2355.4	2301.4	2222.7	2123.7	2121.4	2065.2	1970.7	1876.2	1745.7
15°	2490.4	2515.1	2449.9	2386.9	2285.6	2213.7	2227.2	2159.7	2067.4	1959.4	1815.5
17.5°	2506.1	2512.9	2499.4	2407.1	2332.9	2272.1	2274.4	2229.4	2159.7	2042.7	1919.0
20°	2479.1	2474.6	2458.9	2391.4	2341.9	2305.9	2308.1	2296.9	2258.7	2164.2	1995.4
22.5°	2400.4	2400.4	2380.1	2335.1	2312.6	2346.4	2319.4	2362.1	2321.6	2265.4	2125.9
25°	2337.4	2362.1	2350.9	2321.6	2330.6	2375.6	2389.1	2429.6	2422.9	2353.1	2215.9
27.5°	2404.9	2375.6	2382.4	2348.6	2382.4	2449.9	2456.6	2485.9	2483.6	2427.4	2296.9
30°	2449.9	2476.9	2425.1	2350.9	2386.9	2501.6	2497.1	2535.4	2553.4	2485.9	2373.4
32.5°	2593.9	2571.4	2528.6	2429.6	2434.1	2499.4	2519.6	2569.1	2580.4	2539.9	2447.6
35°	2888.6	2854.8	2668.1	2519.6	2497.1	2528.6	2542.1	2638.8	2659.1	2614.1	2526.4
37.5°	3343.0	3266.5	3041.5	2713.1	2611.8	2605.1	2605.1	2733.3	2809.8	2706.3	2643.3
40°	3993.1	3885.2	3642.2	3070.8	2762.6	2789.6	2816.6	2886.3	2877.3	2809.8	2796.3
42.5°	4821.0	4737.8	4474.6	3671.4	3050.5	2915.6	2893.1	2987.5	3129.3	3102.3	3093.3
45°	5511.7	5516.1	5347.4	4494.8	3547.7	3205.8	3221.5	3293.5	3532.0	3511.7	3509.5
47.5°	6015.6	5952.6	5927.8	5288.9	4272.1	3756.9	3734.4	3783.9	4094.4	4222.6	4281.1
50°	6474.5	6431.8	6373.3	6060.6	5142.7	4447.6	4425.1	4429.6	4904.2	5084.2	5228.2
52.5°	7043.7	7097.7	6904.2	6713.0	6269.8	5345.2	5320.4	5232.7	5822.1	6069.6	6240.5
55°	7745.6	7644.3	7426.1	7525.1	7347.4	6314.8	6269.8	6166.3	6868.2	6971.7	7151.6
57.5°	7900.8	7824.3	8049.3	8400.2	8571.2	7453.1	7435.1	7248.4	7747.8	7653.3	8161.7
60°	8287.7	8308.0	8620.7	9318.1	9615.0	8766.9	8679.2	8350.7	8600.4	8618.4	9160.6
62.5°	8685.9	8638.7	9338.3	10008.7	10465.4	10011.0	9981.7	9329.3	9612.8	9383.3	10100.9
65°	8393.5	8465.4	9466.5	10589.1	11567.7	11228.0	11203.3	10271.9	10427.1	10141.4	10483.4
67.5°	7354.1	7207.9	8609.4	10323.7	12134.6	12503.6	12476.6	11300.0	10886.1	10136.9	9689.3
70°	5390.2	5264.2	6407.0	8742.2	11322.5	13156.0	13264.0	12015.4	10699.4	9192.1	7475.6
72.5°	2641.1	2643.3	3590.4	5927.8	8958.1	11990.7	12044.6	11016.6	9192.1	6776.0	4233.8
75°	780.6	789.6	1329.5	2906.6	5790.6	9106.6	9167.3	8362.0	6371.0	3500.5	1444.3
77.5°	285.7	285.7	440.9	1091.1	2888.6	5747.9	5743.4	5133.7	3226.0	1185.6	337.4
80°	148.5	155.2	229.5	445.4	1250.8	2994.3	3106.8	2512.9	1226.1	499.4	99.0
82.5°	60.7	67.5	126.0	229.5	600.7	1050.6	1149.6	985.3	533.2	348.7	45.0
85°	18.0	20.2	60.7	128.2	236.2	263.2	292.5	330.7	335.2	270.0	20.2
87.5°	2.2	2.2	24.7	42.7	51.7	56.2	65.2	65.2	171.0	189.0	11.2
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°	1534.3	1534.3	1534.3	1534.3	1534.3	1534.3	1534.3	1534.3	1534.3	1534.3	1534.3
2.5°	1545.5	1534.3	1516.3	1475.8	1466.8	1437.5	1435.3	1408.3	1417.3	1399.3	1392.5
5°	1534.3	1509.5	1460.0	1428.5	1397.0	1376.8	1363.3	1352.0	1349.8	1340.8	1336.3
7.5°	1554.5	1520.8	1444.3	1394.8	1340.8	1322.8	1293.6	1291.3	1275.6	1259.8	1259.8
10°	1622.0	1561.3	1478.0	1394.8	1325.0	1266.6	1199.1	1149.6	1131.6	1091.1	1095.6
12.5°	1676.0	1622.0	1500.5	1415.0	1309.3	1176.6	1028.1	913.4	859.4	807.6	827.9
15°	1752.5	1673.7	1543.3	1419.5	1248.6	1019.1	776.1	647.9	598.4	587.2	584.9
17.5°	1835.7	1752.5	1597.3	1408.3	1124.8	787.4	571.4	497.2	506.2	519.7	517.4
20°	1928.0	1826.7	1637.7	1370.0	929.1	571.4	467.9	465.7	479.2	499.4	503.9
22.5°	2024.7	1937.0	1687.2	1255.3	692.9	458.9	449.9	449.9	458.9	483.7	479.2
25°	2132.7	2015.7	1712.0	1077.6	497.2	422.9	427.4	436.4	440.9	461.2	463.4
27.5°	2215.9	2103.4	1718.7	863.9	404.9	391.4	402.7	413.9	420.7	436.4	443.2
30°	2292.4	2213.7	1682.7	643.4	371.2	364.4	368.9	384.7	398.2	411.7	411.7
32.5°	2389.1	2276.6	1599.5	456.7	350.9	339.7	337.4	344.2	359.9	375.7	375.7
35°	2488.1	2382.4	1466.8	366.7	332.9	317.2	308.2	301.5	308.2	319.5	328.4
37.5°	2632.1	2542.1	1300.3	337.4	319.5	297.0	279.0	263.2	252.0	249.7	256.5
40°	2836.8	2722.1	1086.6	317.2	303.7	276.7	249.7	222.7	198.0	182.2	184.5
42.5°	3147.3	2987.5	854.9	306.0	292.5	254.2	216.0	177.7	146.2	130.5	130.5
45°	3590.4	3338.5	627.7	294.7	279.0	227.2	177.7	132.7	101.2	92.2	94.5
47.5°	4258.6	3761.4	449.9	276.7	261.0	198.0	139.5	94.5	74.2	69.7	72.0
50°	5131.5	4263.1	350.9	256.5	238.5	166.5	103.5	69.7	58.5	56.2	58.5
52.5°	6047.1	4769.3	308.2	238.5	204.7	132.7	76.5	56.2	49.5	47.2	49.5
55°	6829.9	5095.5	267.7	211.5	164.2	99.0	60.7	49.5	42.7	36.0	36.0
57.5°	7621.8	5259.7	211.5	175.5	121.5	74.2	51.7	42.7	36.0	29.2	27.0
60°	8265.2	5376.7	150.7	130.5	85.5	58.5	45.0	38.2	29.2	22.5	20.2
62.5°	8688.2	5041.5	110.2	99.0	63.0	49.5	38.2	31.5	22.5	15.7	15.7
65°	8478.9	4578.0	85.5	69.7	47.2	38.2	31.5	22.5	15.7	9.0	6.7
67.5°	7608.3	3729.9	69.7	51.7	36.0	29.2	24.7	18.0	9.0	2.2	2.2
70°	5675.9	2733.3	56.2	38.2	29.2	22.5	18.0	11.2	4.5	2.2	0.0
72.5°	3104.5	1496.0	45.0	31.5	22.5	18.0	13.5	9.0	4.5	0.0	0.0
75°	1025.8	398.2	33.7	22.5	13.5	11.2	9.0	6.7	2.2	0.0	0.0
77.5°	247.5	103.5	27.0	20.2	11.2	6.7	4.5	2.2	2.2	0.0	0.0
80°	76.5	42.7	20.2	13.5	9.0	6.7	2.2	0.0	0.0	0.0	0.0
82.5°	31.5	20.2	9.0	9.0	6.7	2.2	0.0	0.0	0.0	0.0	0.0
85°	15.7	11.2	6.7	4.5	4.5	2.2	0.0	0.0	0.0	0.0	0.0
87.5°	11.2	4.5	2.2	2.2	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)