

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: P483748

Luminaire Tested: **IFLD-S-SA6A-827-U-T4W-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483748
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6A-827-U-T4W-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens with House Side Shield
Light Source: (96) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

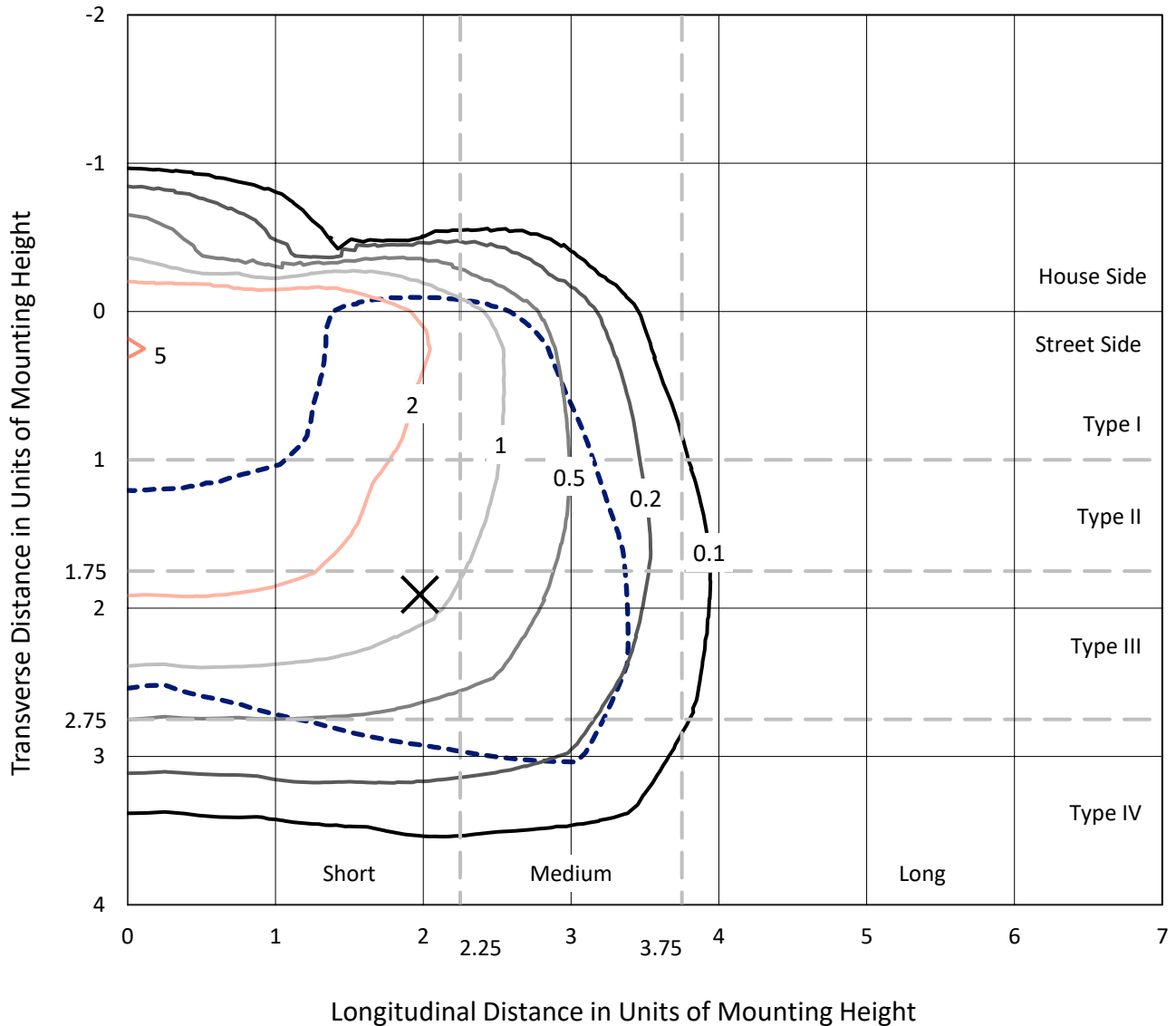
Lumens per Lamp: N/A
Luminaire Lumens: 14638.9 lumens
Efficiency: N/A
Efficacy: 77.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

Input Watts (W): 189.6
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

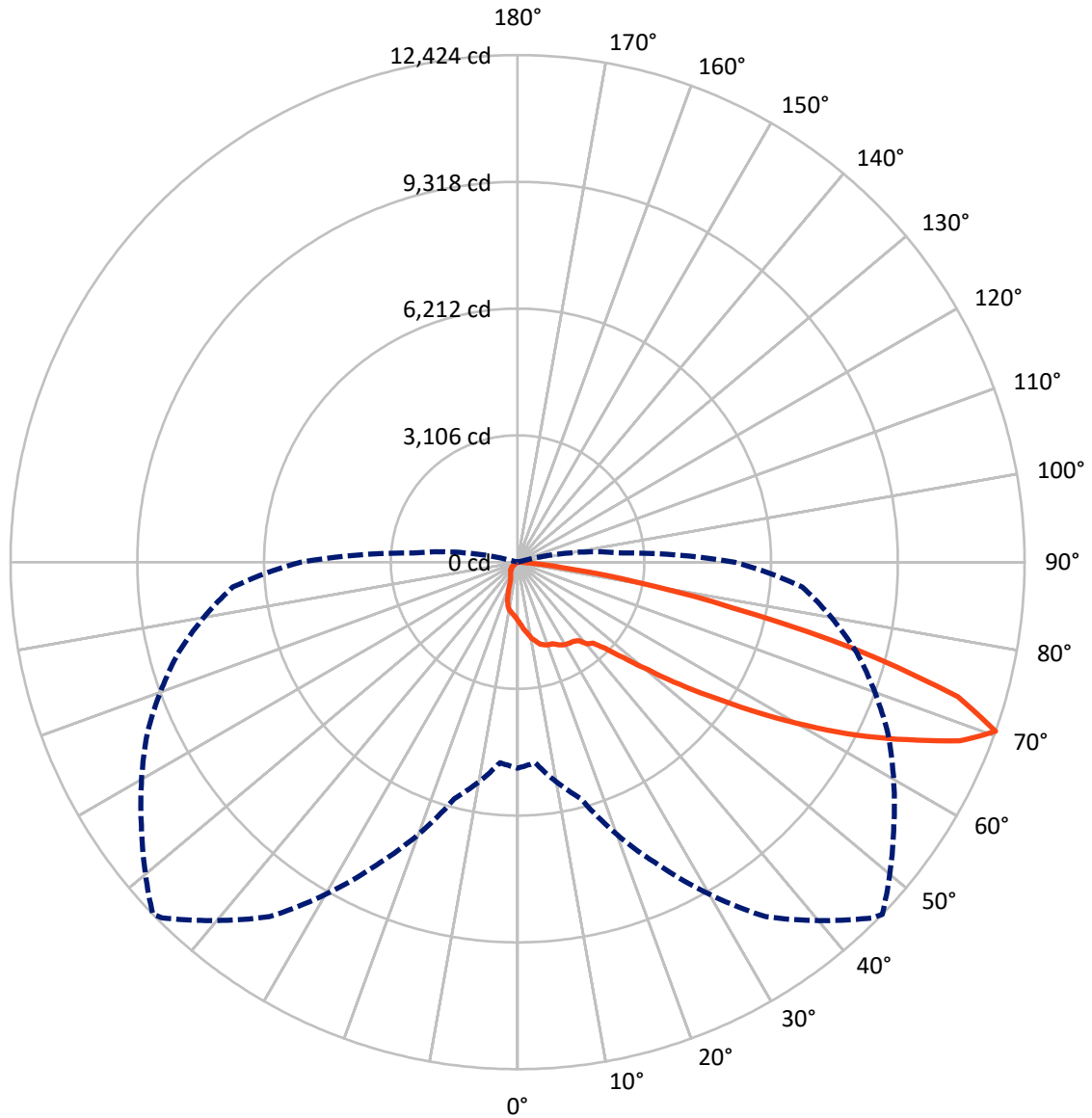
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.2 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	1456.6	0.0	1456.6
	% Fixture	10.0	0.0	10.0
Street Side	Lumens	13182.3	0.0	13182.3
	% Fixture	90.0	0.0	90.0
Total	Lumens	14638.9	0.0	14638.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.3	1.0
10°-20°	432.7	3.0
20°-30°	693.1	4.7
30°-40°	989.4	6.8
40°-50°	1708.4	11.7
50°-60°	3270.9	22.3
60°-70°	4843.6	33.1
70°-80°	2399.0	16.4
80°-90°	158.5	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°	14638.9	100.0
0°-180°	14638.9	100.0



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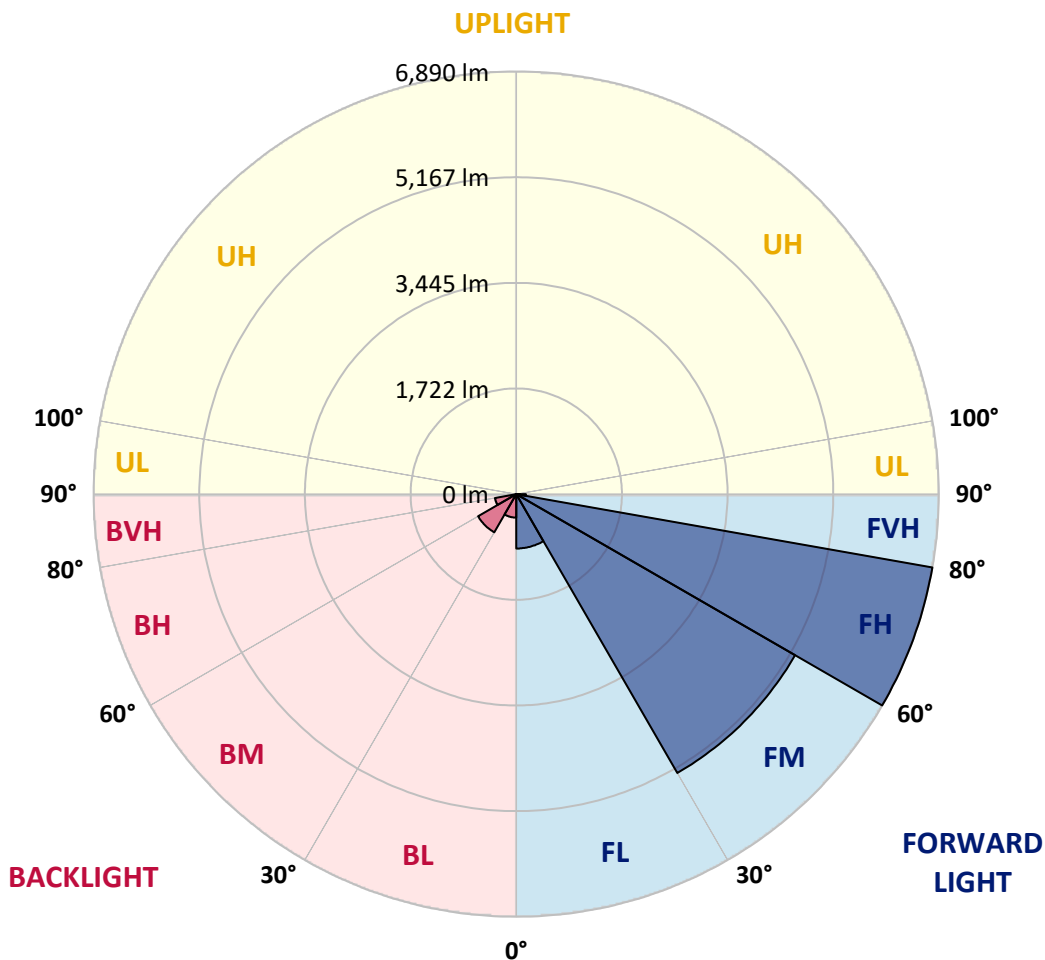
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	886.5	6.1			
FM (30°-60°)	5249.5	35.9			
FH (60°-80°)	6889.8	47.1			G3/7500
FVH (80°-90°)	156.5	1.1			G2/225
BL (0°-30°)	382.7	2.6	B1/500		
BM (30°-60°)	719.1	4.9	B1/1000		
BH (60°-80°)	352.8	2.4	B1/500		G1/500
BVH (80°-90°)	2.0	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°	1437.1	1437.1	1437.1	1437.1	1437.1	1437.1	1437.1	1437.1	1437.1	1437.1	1437.1
2.5°	1603.5	1593.0	1576.2	1569.8	1553.0	1544.5	1531.9	1525.6	1502.4	1479.2	1464.5
5°	1799.5	1774.2	1782.7	1757.4	1702.6	1658.3	1656.2	1607.8	1555.1	1512.9	1456.0
7.5°	1997.6	1976.5	1944.9	1909.1	1848.0	1782.7	1763.7	1717.3	1643.6	1569.8	1494.0
10°	2147.2	2132.4	2105.1	2054.5	1970.2	1896.4	1898.6	1820.6	1742.6	1658.3	1555.1
12.5°	2239.9	2246.2	2206.2	2155.6	2081.9	1989.2	1987.1	1934.4	1845.9	1757.4	1635.2
15°	2332.6	2355.8	2294.7	2235.7	2140.9	2073.4	2086.1	2022.9	1936.5	1835.3	1700.5
17.5°	2347.4	2353.7	2341.1	2254.7	2185.1	2128.2	2130.3	2088.2	2022.9	1913.3	1797.4
20°	2322.1	2317.9	2303.1	2239.9	2193.6	2159.8	2161.9	2151.4	2115.6	2027.1	1869.1
22.5°	2248.3	2248.3	2229.4	2187.2	2166.2	2197.8	2172.5	2212.5	2174.6	2121.9	1991.3
25°	2189.3	2212.5	2202.0	2174.6	2183.0	2225.2	2237.8	2275.7	2269.4	2204.1	2075.6
27.5°	2252.6	2225.2	2231.5	2199.9	2231.5	2294.7	2301.0	2328.4	2326.3	2273.6	2151.4
30°	2294.7	2320.0	2271.5	2202.0	2235.7	2343.2	2338.9	2374.8	2391.6	2328.4	2223.1
32.5°	2429.6	2408.5	2368.4	2275.7	2279.9	2341.1	2360.0	2406.4	2416.9	2379.0	2292.6
35°	2705.6	2674.0	2499.1	2360.0	2338.9	2368.4	2381.1	2471.7	2490.7	2448.5	2366.3
37.5°	3131.2	3059.6	2848.9	2541.2	2446.4	2440.1	2440.1	2560.2	2631.8	2534.9	2475.9
40°	3740.2	3639.1	3411.5	2876.3	2587.6	2612.9	2638.2	2703.5	2695.1	2631.8	2619.2
42.5°	4515.6	4437.7	4191.1	3438.9	2857.3	2730.9	2709.8	2798.3	2931.1	2905.8	2897.3
45°	5162.5	5166.8	5008.7	4210.1	3323.0	3002.7	3017.5	3084.9	3308.2	3289.3	3287.2
47.5°	5634.5	5575.5	5552.4	4953.9	4001.5	3519.0	3497.9	3544.2	3835.0	3955.1	4009.9
50°	6064.4	6024.4	5969.6	5676.7	4817.0	4165.9	4144.8	4149.0	4593.6	4762.2	4897.0
52.5°	6597.5	6648.1	6466.9	6287.8	5872.7	5006.6	4983.4	4901.3	5453.3	5685.1	5845.3
55°	7254.9	7160.1	6955.7	7048.4	6882.0	5914.8	5872.7	5775.7	6433.2	6530.1	6698.7
57.5°	7400.3	7328.7	7539.4	7868.1	8028.3	6981.0	6964.2	6789.3	7257.1	7168.6	7644.8
60°	7762.8	7781.7	8074.6	8727.9	9006.0	8211.6	8129.4	7821.8	8055.7	8072.5	8580.4
62.5°	8135.7	8091.5	8746.8	9374.8	9802.5	9376.9	9349.5	8738.4	9003.9	8789.0	9461.1
65°	7861.8	7929.2	8866.9	9918.4	10835.0	10516.8	10493.7	9621.3	9766.7	9499.1	9819.4
67.5°	6888.3	6751.3	8064.1	9669.8	11366.0	11711.6	11686.3	10584.3	10196.5	9494.9	9075.5
70°	5048.8	4930.8	6001.2	8188.4	10605.3	12322.7	12423.8	11254.3	10021.6	8609.9	7002.1
72.5°	2473.8	2475.9	3363.0	5552.4	8390.7	11231.2	11281.7	10318.8	8609.9	6346.8	3965.7
75°	731.2	739.6	1245.3	2722.4	5423.8	8529.8	8586.7	7832.3	5967.5	3278.7	1352.8
77.5°	267.6	267.6	413.0	1022.0	2705.6	5383.8	5379.6	4808.5	3021.7	1110.5	316.1
80°	139.1	145.4	214.9	417.2	1171.6	2804.6	2910.0	2353.7	1148.4	467.8	92.7
82.5°	56.9	63.2	118.0	214.9	562.6	984.0	1076.8	922.9	499.4	326.6	42.1
85°	16.9	19.0	56.9	120.1	221.3	246.5	273.9	309.8	314.0	252.9	19.0
87.5°	2.1	2.1	23.2	40.0	48.5	52.7	61.1	61.1	160.1	177.0	10.5
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°	1437.1	1437.1	1437.1	1437.1	1437.1	1437.1	1437.1	1437.1	1437.1	1437.1	1437.1
2.5°	1447.6	1437.1	1420.2	1382.3	1373.9	1346.5	1344.4	1319.1	1327.5	1310.7	1304.3
5°	1437.1	1413.9	1367.5	1338.0	1308.5	1289.6	1276.9	1266.4	1264.3	1255.9	1251.7
7.5°	1456.0	1424.4	1352.8	1306.4	1255.9	1239.0	1211.6	1209.5	1194.8	1180.0	1180.0
10°	1519.3	1462.4	1384.4	1306.4	1241.1	1186.3	1123.1	1076.8	1059.9	1022.0	1026.2
12.5°	1569.8	1519.3	1405.5	1325.4	1226.4	1102.0	963.0	855.5	804.9	756.5	775.4
15°	1641.5	1567.7	1445.5	1329.6	1169.5	954.5	727.0	606.9	560.5	550.0	547.9
17.5°	1719.4	1641.5	1496.1	1319.1	1053.6	737.5	535.2	465.7	474.1	486.8	484.6
20°	1805.8	1711.0	1534.0	1283.3	870.3	535.2	438.3	436.2	448.8	467.8	472.0
22.5°	1896.4	1814.3	1580.4	1175.8	649.0	429.9	421.4	421.4	429.9	453.0	448.8
25°	1997.6	1888.0	1603.5	1009.3	465.7	396.1	400.4	408.8	413.0	432.0	434.1
27.5°	2075.6	1970.2	1609.9	809.1	379.3	366.6	377.2	387.7	394.0	408.8	415.1
30°	2147.2	2073.4	1576.2	602.6	347.7	341.4	345.6	360.3	373.0	385.6	385.6
32.5°	2237.8	2132.4	1498.2	427.8	328.7	318.2	316.1	322.4	337.1	351.9	351.9
35°	2330.5	2231.5	1373.9	343.5	311.9	297.1	288.7	282.4	288.7	299.2	307.6
37.5°	2465.4	2381.1	1217.9	316.1	299.2	278.1	261.3	246.5	236.0	233.9	240.2
40°	2657.1	2549.7	1017.8	297.1	284.5	259.2	233.9	208.6	185.4	170.7	172.8
42.5°	2947.9	2798.3	800.7	286.6	273.9	238.1	202.3	166.5	137.0	122.2	122.2
45°	3363.0	3127.0	587.9	276.0	261.3	212.8	166.5	124.3	94.8	86.4	88.5
47.5°	3988.9	3523.2	421.4	259.2	244.4	185.4	130.6	88.5	69.5	65.3	67.4
50°	4806.4	3993.1	328.7	240.2	223.4	155.9	96.9	65.3	54.8	52.7	54.8
52.5°	5664.0	4467.2	288.7	223.4	191.8	124.3	71.6	52.7	46.4	44.3	46.4
55°	6397.3	4772.7	250.8	198.1	153.8	92.7	56.9	46.4	40.0	33.7	33.7
57.5°	7139.1	4926.5	198.1	164.4	113.8	69.5	48.5	40.0	33.7	27.4	25.3
60°	7741.7	5036.1	141.2	122.2	80.1	54.8	42.1	35.8	27.4	21.1	19.0
62.5°	8137.8	4722.1	103.3	92.7	59.0	46.4	35.8	29.5	21.1	14.8	14.8
65°	7941.9	4288.1	80.1	65.3	44.3	35.8	29.5	21.1	14.8	8.4	6.3
67.5°	7126.4	3493.7	65.3	48.5	33.7	27.4	23.2	16.9	8.4	2.1	2.1
70°	5316.4	2560.2	52.7	35.8	27.4	21.1	16.9	10.5	4.2	2.1	0.0
72.5°	2907.9	1401.3	42.1	29.5	21.1	16.9	12.6	8.4	4.2	0.0	0.0
75°	960.9	373.0	31.6	21.1	12.6	10.5	8.4	6.3	2.1	0.0	0.0
77.5°	231.8	96.9	25.3	19.0	10.5	6.3	4.2	2.1	2.1	0.0	0.0
80°	71.6	40.0	19.0	12.6	8.4	6.3	2.1	0.0	0.0	0.0	0.0
82.5°	29.5	19.0	8.4	8.4	6.3	2.1	0.0	0.0	0.0	0.0	0.0
85°	14.8	10.5	6.3	4.2	4.2	2.1	0.0	0.0	0.0	0.0	0.0
87.5°	10.5	4.2	2.1	2.1	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)