

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: P483928

Luminaire Tested: **IFLD-S-SA3A-730-U-SL2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483928
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-730-U-SL2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens with House Side Shield
Light Source: (48) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

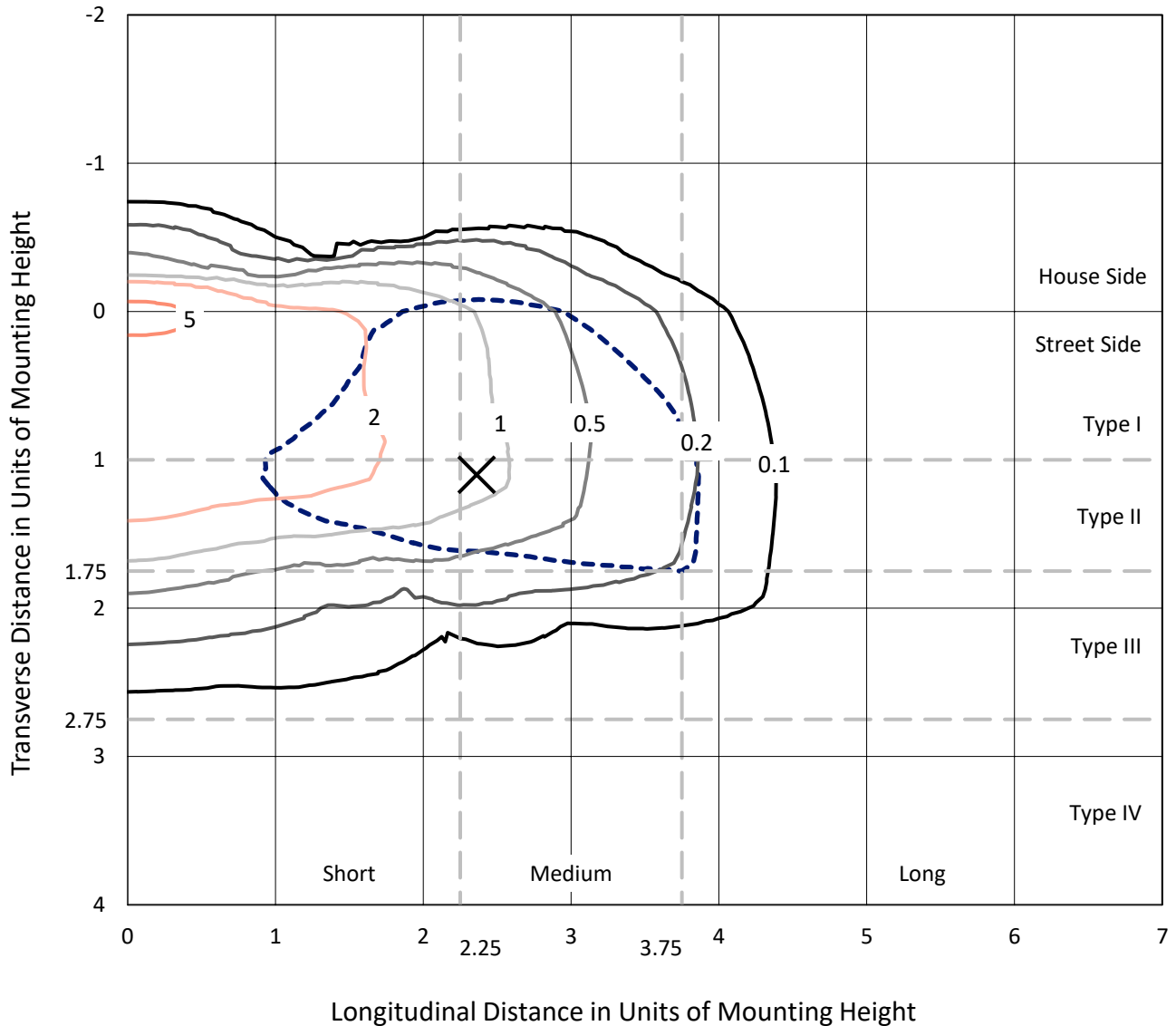
Lumens per Lamp: N/A
Luminaire Lumens: 10311.6 lumens
Efficiency: N/A
Efficacy: 108.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 94.8
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

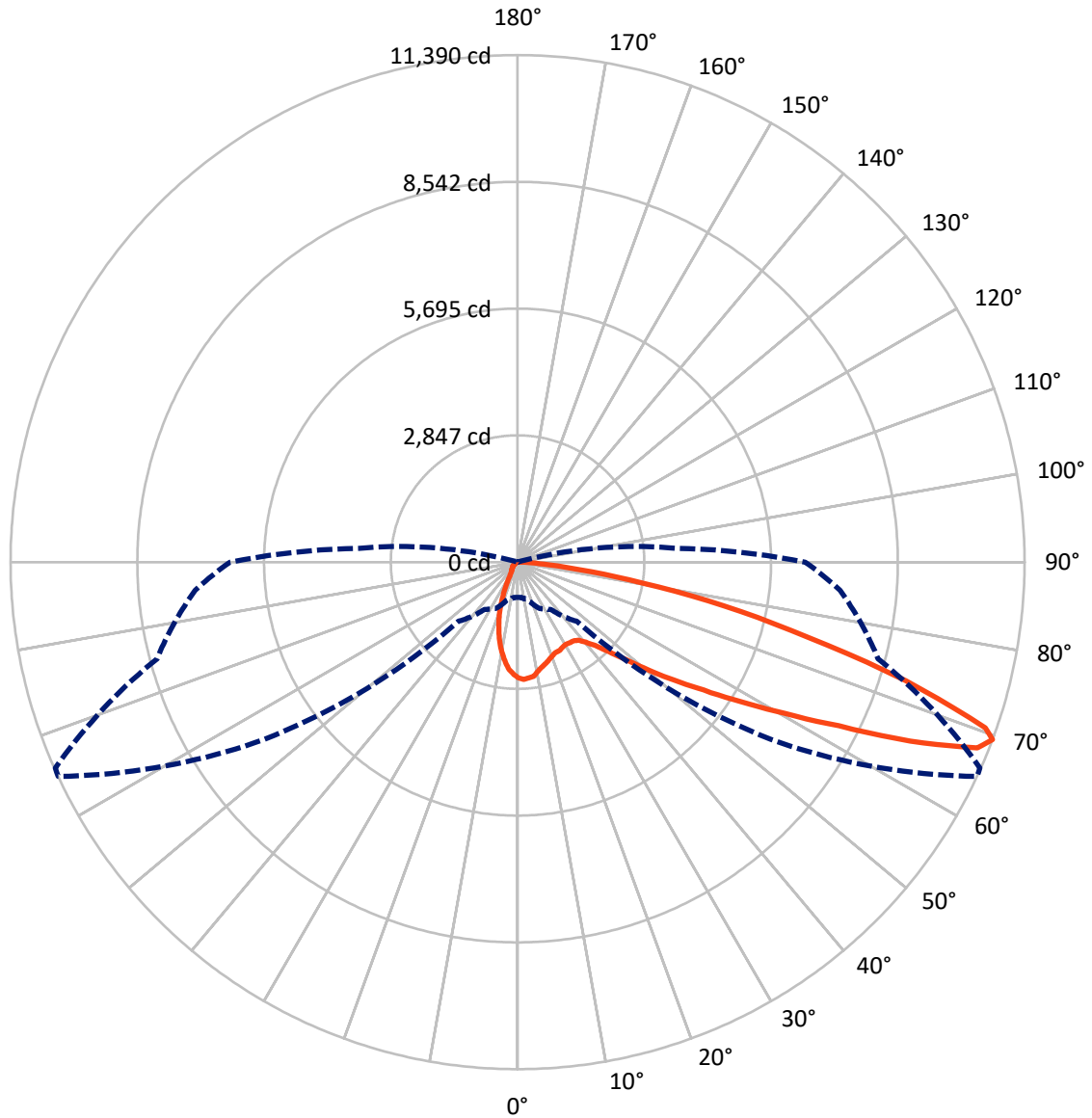
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.5 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1250.9	0.0	1250.9
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	9060.8	0.0	9060.8
	% Fixture	87.9	0.0	87.9
Total	Lumens	10311.6	0.0	10311.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.7	2.1
10°-20°	465.5	4.5
20°-30°	648.1	6.3
30°-40°	918.4	8.9
40°-50°	1447.3	14.0
50°-60°	2348.5	22.8
60°-70°	2622.8	25.4
70°-80°	1476.9	14.3
80°-90°	171.4	1.7
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°	10311.6	100.0
0°-180°	10311.6	100.0

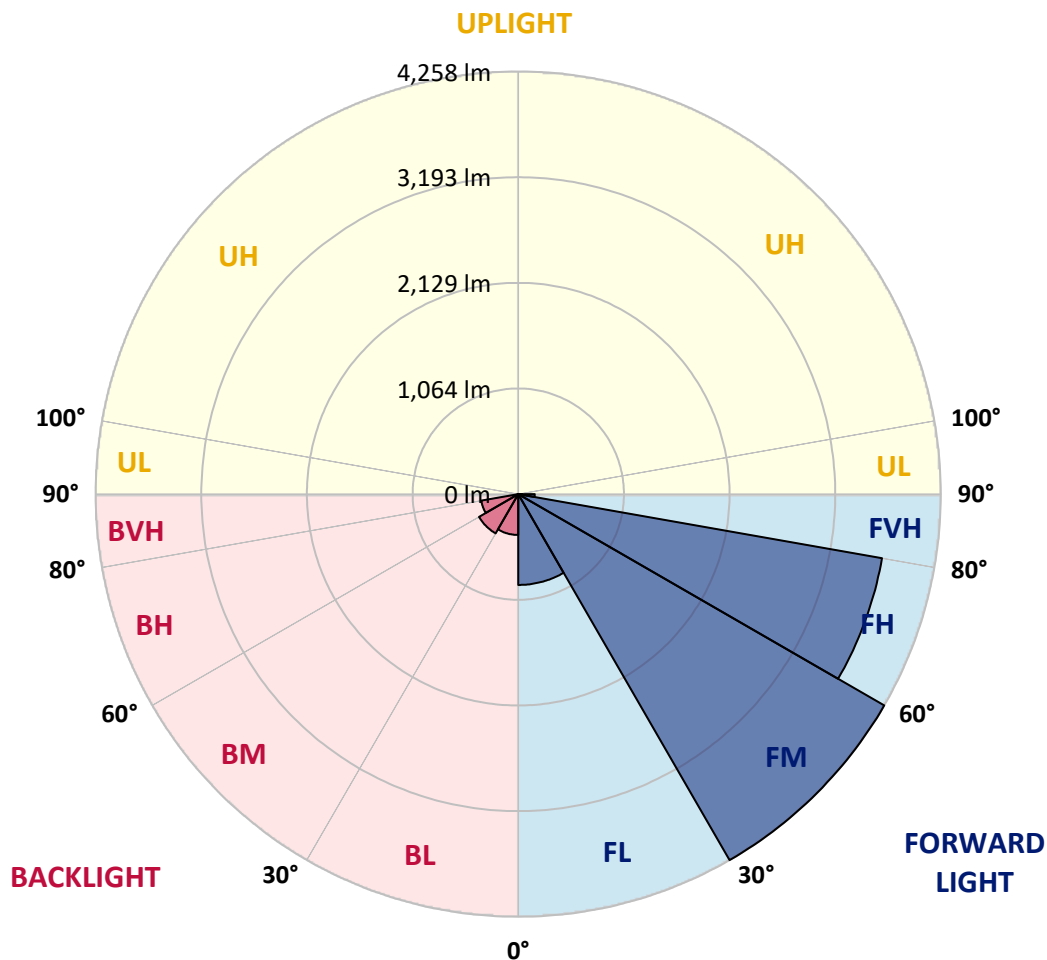


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	915.1	8.9			
FM (30°-60°)	4257.8	41.3			
FH (60°-80°)	3721.3	36.1			G2/5000
FVH (80°-90°)	166.7	1.6			G2/225
BL (0°-30°)	411.2	4.0	B1/500		
BM (30°-60°)	456.4	4.4	B1/1000		
BH (60°-80°)	378.5	3.7	B1/500		G1/500
BVH (80°-90°)	4.7	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-G2
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2599.8	2599.8	2599.8	2599.8	2599.8	2599.8	2599.8	2599.8	2599.8	2599.8	2599.8
2.5°	2503.8	2523.3	2528.9	2548.3	2558.1	2599.8	2623.4	2637.4	2630.4	2645.7	2647.1
5°	2325.8	2314.6	2343.9	2364.7	2409.2	2481.6	2555.3	2612.3	2638.7	2663.8	2659.6
7.5°	2135.2	2129.6	2158.8	2206.1	2246.5	2334.1	2452.4	2592.8	2587.3	2648.5	2666.6
10°	2004.4	2010.0	2019.7	2067.0	2126.9	2215.9	2363.3	2494.1	2523.3	2652.7	2688.8
12.5°	1884.8	1894.6	1912.6	1961.3	2030.9	2122.7	2266.0	2419.0	2463.5	2629.0	2701.3
15°	1845.9	1823.6	1859.8	1895.9	1968.3	2050.4	2171.4	2361.9	2381.4	2601.2	2722.2
17.5°	1813.9	1800.0	1816.7	1845.9	1922.4	1989.1	2103.2	2300.7	2336.9	2590.1	2719.4
20°	1823.6	1811.1	1818.1	1840.3	1875.1	1937.7	2043.4	2242.3	2281.3	2538.6	2715.3
22.5°	1851.4	1861.2	1848.7	1854.2	1865.3	1897.3	2011.4	2200.6	2234.0	2528.9	2738.9
25°	1976.6	1959.9	1943.2	1936.3	1870.9	1884.8	2001.7	2197.8	2221.4	2494.1	2719.4
27.5°	2107.4	2093.5	2086.5	2046.2	1957.2	1915.4	2003.1	2158.8	2190.8	2480.2	2695.8
30°	2266.0	2284.0	2256.2	2207.5	2083.7	1980.8	2018.4	2139.4	2183.9	2427.3	2680.5
32.5°	2432.9	2442.6	2456.5	2420.4	2260.4	2079.6	2064.3	2157.5	2160.2	2427.3	2645.7
35°	2622.1	2608.1	2644.3	2647.1	2506.6	2254.8	2151.9	2170.0	2199.2	2416.2	2633.2
37.5°	2784.8	2808.5	2850.2	2916.9	2772.3	2502.4	2288.2	2228.4	2240.9	2467.7	2642.9
40°	2962.9	2986.5	3081.1	3147.9	3065.8	2780.6	2495.5	2364.7	2374.5	2544.2	2693.0
42.5°	3159.0	3204.9	3317.6	3434.4	3412.1	3133.9	2762.5	2565.0	2560.9	2734.7	2795.9
45°	3424.7	3485.9	3608.3	3743.2	3762.7	3538.7	3118.6	2864.1	2878.0	2983.7	3008.8
47.5°	3794.7	3791.9	3911.5	4061.8	4174.4	3958.8	3544.3	3266.1	3264.7	3377.4	3324.5
50°	4152.2	4153.6	4185.6	4359.4	4651.5	4541.7	4071.5	3800.2	3784.9	3840.6	3755.7
52.5°	4317.7	4298.2	4274.6	4484.6	5018.8	5276.1	4739.2	4405.3	4392.8	4359.4	4337.2
55°	4143.8	4150.8	4149.4	4367.8	5212.1	6050.9	5596.0	5071.6	5050.8	4946.4	4977.0
57.5°	3586.0	3563.8	3612.5	3953.3	4990.9	6579.5	6821.5	5911.8	5857.5	5511.2	5441.6
60°	2669.4	2676.3	2716.6	3118.6	4441.5	6690.8	7994.1	6898.0	6664.3	5909.0	5813.0
62.5°	1864.0	1850.0	1865.3	2090.7	3175.7	6245.6	8787.0	8097.1	7871.7	6361.1	6305.5
65°	1334.0	1315.9	1377.1	1514.8	1907.1	4775.3	8899.7	9694.0	9492.3	7083.0	6949.5
67.5°	959.8	957.0	1028.0	1278.3	1354.8	2750.0	8065.1	11140.6	11018.2	7939.9	7341.8
69°	794.3	795.7	863.8	1144.8	1293.6	1877.9	6939.8	11389.6	11367.3	8382.2	7268.0
70°	692.7	698.3	777.6	1065.5	1268.6	1544.0	5982.7	11144.8	11122.5	8468.5	7024.6
72.5°	427.0	431.2	535.5	854.1	1206.0	1260.3	3577.7	9118.1	9194.6	8073.4	6052.3
75°	204.5	205.9	281.0	617.6	1162.9	1194.9	1916.8	6728.3	6889.7	6518.3	4729.4
77.5°	108.5	108.5	134.9	328.3	941.7	1123.9	1137.8	4746.1	4879.7	4121.6	2688.8
80°	54.2	55.6	82.1	171.1	584.2	1101.7	888.9	2830.7	2903.0	1681.7	837.4
82.5°	20.9	22.3	38.9	102.9	303.2	930.6	780.4	1392.4	1374.3	393.7	204.5
85°	2.8	2.8	13.9	61.2	129.4	410.3	644.0	581.4	562.0	86.2	98.8
87.5°	0.0	0.0	2.8	18.1	38.9	119.6	249.0	160.0	178.0	23.6	48.7
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°	2599.8	2599.8	2599.8	2599.8	2599.8	2599.8	2599.8	2599.8	2599.8	2599.8	2599.8
2.5°	2640.1	2610.9	2566.4	2523.3	2477.4	2421.8	2360.5	2338.3	2299.3	2296.6	2318.8
5°	2637.4	2590.1	2512.2	2420.4	2289.6	2190.8	2083.7	2005.8	1946.0	1907.1	1916.8
7.5°	2651.3	2594.2	2459.3	2261.8	2093.5	1897.3	1731.8	1617.7	1513.4	1462.0	1456.4
10°	2629.0	2552.5	2355.0	2078.2	1830.6	1556.5	1314.5	1161.5	1005.7	948.7	951.5
12.5°	2641.5	2534.4	2242.3	1889.0	1548.2	1192.1	902.8	694.1	548.1	500.8	495.2
15°	2649.9	2495.5	2133.8	1662.3	1235.2	812.4	523.0	393.7	347.8	339.4	338.0
17.5°	2617.9	2448.2	1980.8	1438.3	915.3	493.8	347.8	321.3	313.0	307.4	304.6
20°	2616.5	2420.4	1848.7	1208.8	610.7	336.6	300.5	290.7	278.2	274.0	274.0
22.5°	2592.8	2361.9	1690.1	957.0	389.5	289.3	269.9	254.6	240.6	235.1	233.7
25°	2585.9	2293.8	1541.2	719.2	296.3	258.7	239.3	217.0	200.3	192.0	187.8
27.5°	2566.4	2235.4	1391.0	506.3	258.7	230.9	205.9	182.2	162.7	150.2	148.8
30°	2496.9	2174.2	1224.1	350.5	235.1	204.5	176.7	148.8	129.4	121.0	118.2
32.5°	2467.7	2117.1	1041.9	269.9	214.2	180.8	148.8	123.8	108.5	100.2	98.8
35°	2432.9	2033.7	865.2	235.1	194.7	157.2	125.2	104.3	91.8	84.9	84.9
37.5°	2437.1	1966.9	699.7	212.8	173.9	134.9	107.1	89.0	77.9	70.9	70.9
40°	2424.5	1914.0	543.9	193.4	154.4	115.5	90.4	75.1	65.4	58.4	57.0
42.5°	2481.6	1900.1	410.3	176.7	134.9	98.8	77.9	64.0	54.2	45.9	45.9
45°	2577.5	1922.4	319.9	161.4	115.5	84.9	66.8	52.9	43.1	37.6	36.2
47.5°	2833.5	2010.0	250.4	148.8	98.8	73.7	55.6	43.1	34.8	29.2	27.8
50°	3204.9	2206.1	212.8	130.8	83.5	62.6	45.9	33.4	27.8	22.3	20.9
52.5°	3733.5	2535.8	193.4	115.5	69.6	51.5	36.2	26.4	20.9	16.7	15.3
55°	4309.4	2947.6	175.3	97.4	58.4	41.7	29.2	20.9	15.3	11.1	9.7
57.5°	4758.6	3303.7	160.0	80.7	47.3	33.4	22.3	15.3	11.1	7.0	5.6
60°	5249.7	3554.0	140.5	64.0	38.9	25.0	16.7	11.1	8.3	4.2	4.2
62.5°	5756.0	3847.5	115.5	50.1	30.6	19.5	12.5	8.3	5.6	1.4	1.4
65°	6459.9	4077.1	89.0	38.9	23.6	13.9	9.7	7.0	2.8	0.0	0.0
67.5°	6658.8	3964.4	65.4	30.6	16.7	9.7	7.0	4.2	1.4	0.0	0.0
69°	6459.9	3570.7	57.0	26.4	13.9	8.3	5.6	2.8	1.4	0.0	0.0
70°	6096.8	3264.7	50.1	22.3	12.5	8.3	4.2	2.8	1.4	0.0	0.0
72.5°	5099.4	2503.8	38.9	16.7	9.7	7.0	4.2	2.8	0.0	0.0	0.0
75°	3740.4	1546.8	29.2	12.5	8.3	5.6	4.2	2.8	0.0	0.0	0.0
77.5°	2004.4	564.8	20.9	8.3	5.6	4.2	4.2	2.8	0.0	0.0	0.0
80°	549.4	166.9	15.3	5.6	4.2	2.8	2.8	1.4	0.0	0.0	0.0
82.5°	150.2	43.1	9.7	5.6	4.2	2.8	1.4	0.0	0.0	0.0	0.0
85°	80.7	16.7	5.6	4.2	2.8	1.4	0.0	0.0	0.0	0.0	0.0
87.5°	41.7	5.6	4.2	2.8	2.8	1.4	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)