

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: P480886

Luminaire Tested: **IFLD-S-SA3A-740-U-SL4**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480886
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-740-U-SL4
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (48) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

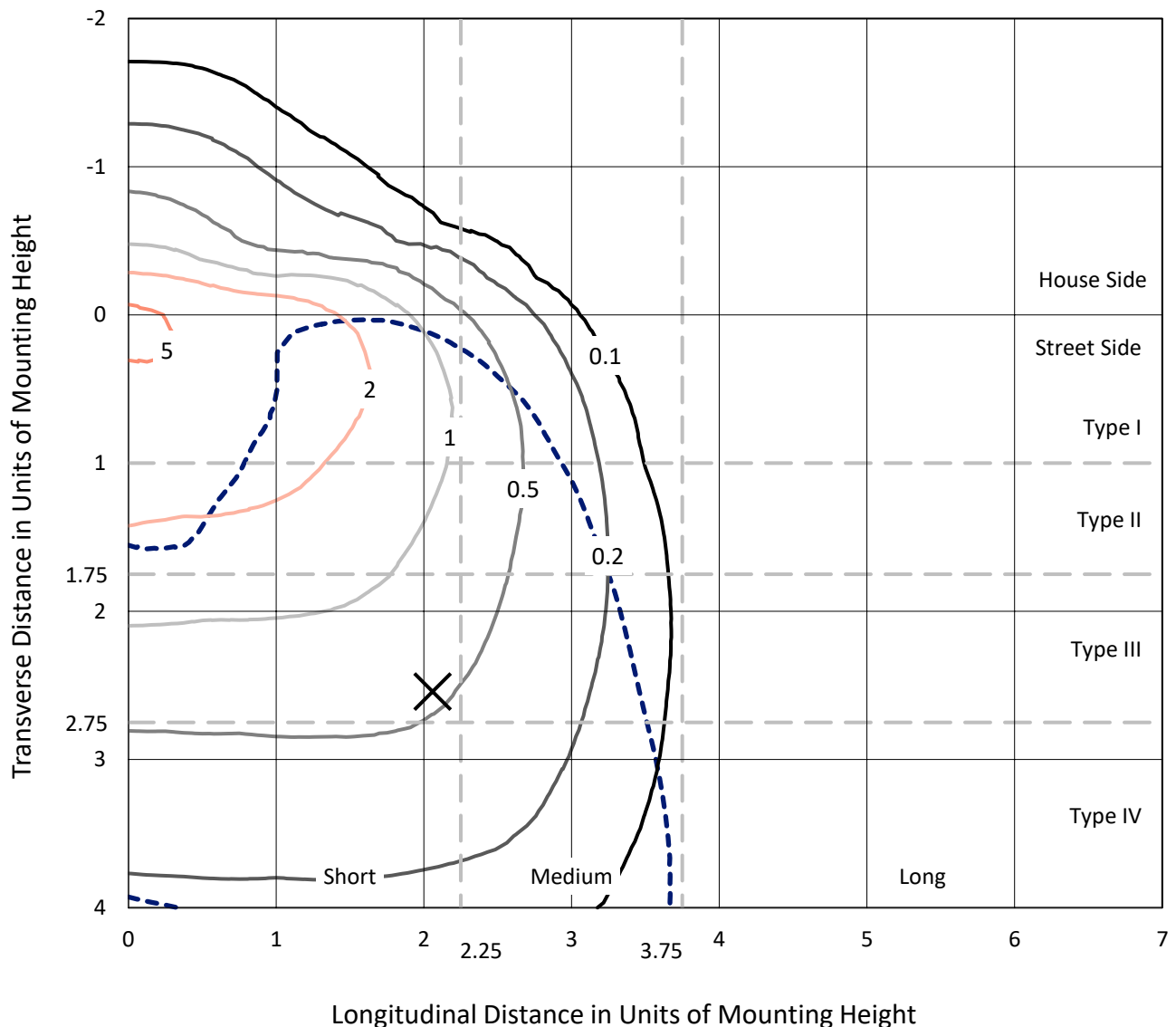
Lumens per Lamp: N/A
Luminaire Lumens: 13308.4 lumens
Efficiency: N/A
Efficacy: 140.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

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

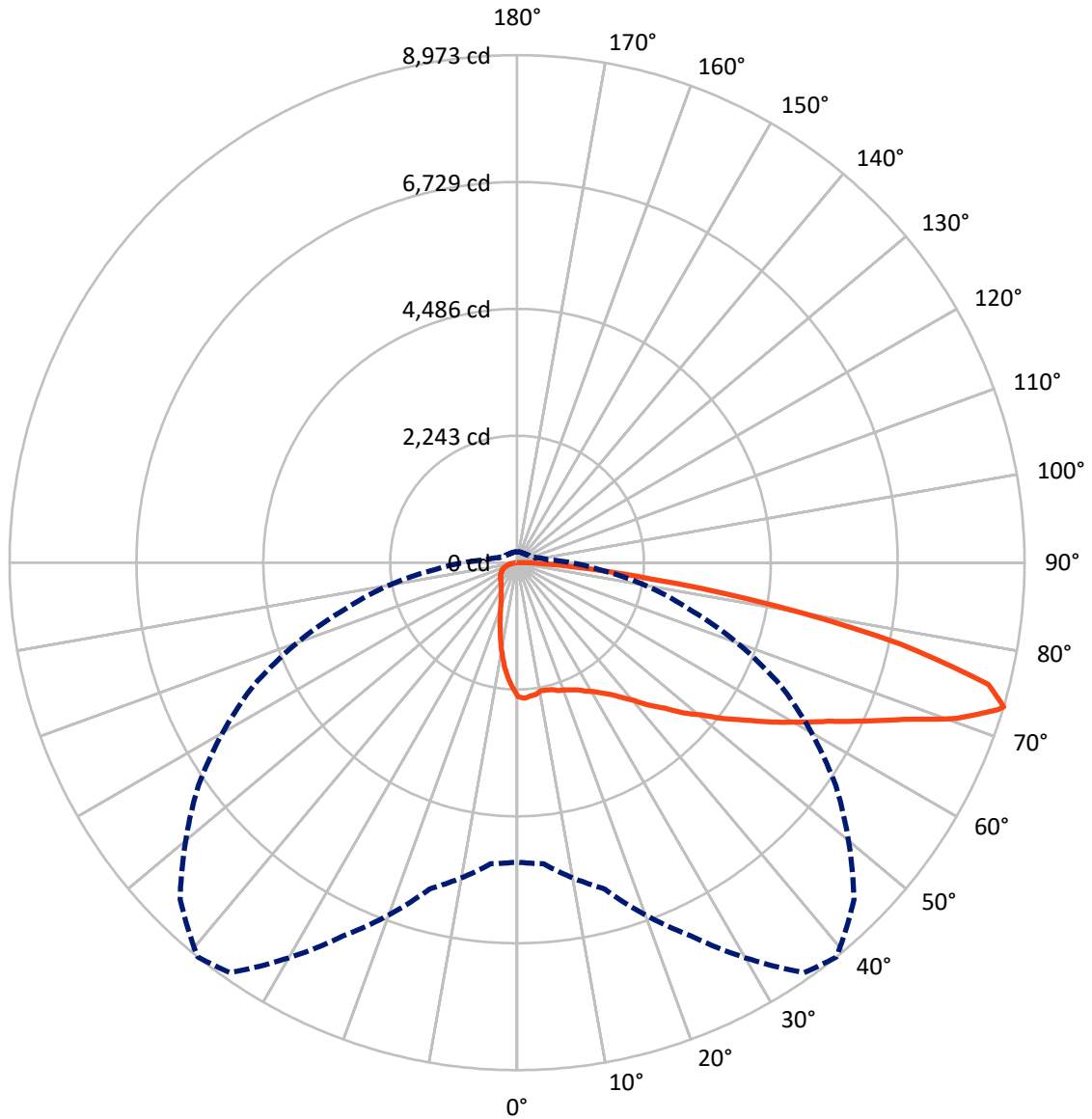
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1870.8	0.0	1870.8
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	11437.6	0.0	11437.6
	% Fixture	85.9	0.0	85.9
Total	Lumens	13308.4	0.0	13308.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	205.6	1.5
10°-20°	522.8	3.9
20°-30°	798.9	6.0
30°-40°	1164.8	8.8
40°-50°	1760.1	13.2
50°-60°	2548.7	19.2
60°-70°	3238.3	24.3
70°-80°	2625.1	19.7
80°-90°	444.2	3.3
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°	13308.4	100.0
0°-180°	13308.4	100.0

Coefficient of Utilization



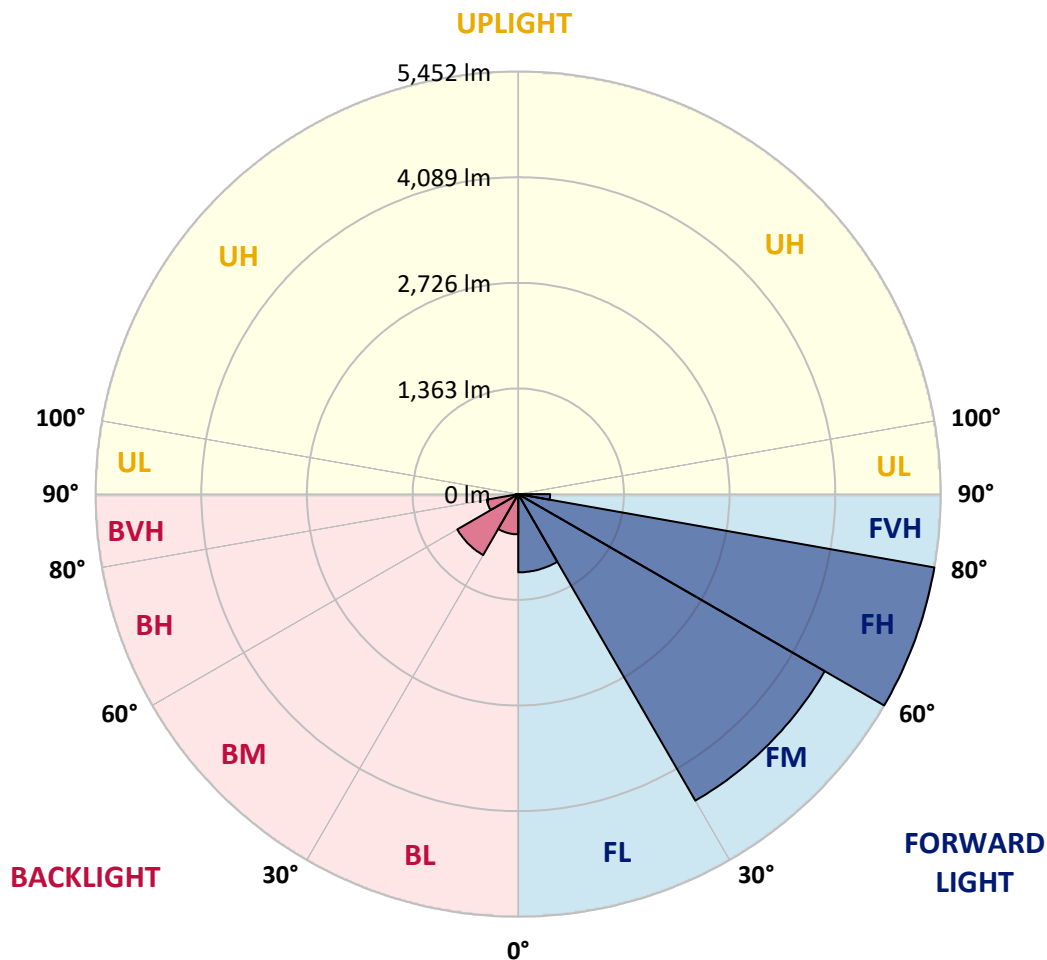
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1008.5	7.6			
FM (30°-60°)	4565.6	34.3			
FH (60°-80°)	5451.9	41.0			G3/7500
FVH (80°-90°)	411.6	3.1			G3/500
BL (0°-30°)	518.8	3.9	B2/1000		
BM (30°-60°)	907.9	6.8	B1/1000		
BH (60°-80°)	411.5	3.1	B1/500		G1/500
BVH (80°-90°)	32.6	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	2369.0	2369.0	2369.0	2369.0	2369.0	2369.0	2369.0	2369.0	2369.0	2369.0	2369.0
2.5°	2425.5	2400.2	2404.7	2395.8	2404.7	2401.7	2397.3	2374.9	2397.3	2374.9	2369.0
5°	2392.8	2392.8	2407.7	2385.3	2388.3	2373.4	2388.3	2371.9	2357.1	2319.8	2309.4
7.5°	2382.4	2380.9	2382.4	2351.1	2366.0	2357.1	2342.2	2324.3	2294.5	2270.7	2236.4
10°	2310.9	2325.8	2309.4	2318.3	2330.3	2303.5	2302.0	2297.5	2284.1	2252.8	2232.0
12.5°	2272.2	2297.5	2306.4	2299.0	2309.4	2312.4	2303.5	2297.5	2281.1	2260.3	2200.7
15°	2288.6	2258.8	2284.1	2333.2	2322.8	2330.3	2331.7	2325.8	2318.3	2279.6	2240.9
17.5°	2293.0	2275.2	2328.8	2339.2	2352.6	2379.4	2361.5	2360.0	2331.7	2304.9	2248.4
20°	2303.5	2296.0	2339.2	2394.3	2395.8	2400.2	2409.2	2386.8	2371.9	2325.8	2239.4
22.5°	2342.2	2367.5	2407.7	2431.5	2444.9	2447.9	2447.9	2403.2	2386.8	2349.6	2281.1
25°	2458.3	2431.5	2488.1	2516.4	2497.0	2492.6	2482.1	2441.9	2424.1	2391.3	2300.5
27.5°	2543.2	2541.7	2574.4	2613.2	2561.0	2571.5	2534.2	2522.3	2482.1	2464.3	2334.7
30°	2659.3	2692.1	2690.6	2702.5	2634.0	2645.9	2598.3	2575.9	2553.6	2564.0	2436.0
32.5°	2808.2	2796.3	2815.7	2806.7	2738.2	2748.7	2692.1	2657.8	2665.3	2696.5	2574.4
35°	2903.5	2891.6	2899.0	2899.0	2878.2	2866.3	2842.5	2797.8	2833.5	2891.6	2729.3
37.5°	3006.2	3021.1	3064.3	3055.4	3028.6	3028.6	3025.6	2994.3	3040.5	3183.4	2976.5
40°	3097.1	3137.3	3164.1	3181.9	3213.2	3213.2	3238.5	3220.7	3304.0	3533.3	3278.7
42.5°	3192.4	3193.9	3339.8	3353.2	3423.2	3452.9	3472.3	3487.2	3643.5	3899.6	3601.8
45°	3314.5	3321.9	3450.0	3552.7	3661.4	3671.8	3744.8	3793.9	3986.0	4300.2	3953.2
47.5°	3475.3	3466.3	3603.3	3767.1	3902.6	3974.1	4061.9	4115.5	4352.3	4735.0	4337.4
50°	3686.7	3659.9	3738.8	3996.4	4155.7	4234.7	4391.0	4480.3	4757.3	5150.4	4600.9
52.5°	3944.3	3899.6	3962.2	4243.6	4422.3	4581.6	4730.5	4830.2	5119.1	5472.0	4796.0
55°	4216.8	4124.5	4142.3	4505.7	4763.2	4913.6	5117.6	5221.9	5516.7	5760.9	4991.1
57.5°	4486.3	4428.2	4392.5	4757.3	5169.7	5314.2	5501.8	5637.3	5887.4	6017.0	5156.3
60°	4712.6	4697.7	4639.7	5147.4	5600.1	5723.6	5920.2	6003.6	6192.7	6253.7	5159.3
62.5°	4898.7	4848.1	4940.4	5461.6	6037.8	6177.8	6393.7	6401.1	6535.1	6401.1	5007.4
65°	5044.7	5047.6	5195.0	5841.3	6544.1	6751.0	6925.2	6905.9	6819.5	6313.3	4648.6
67.5°	5177.2	5233.8	5449.7	6258.2	7194.7	7389.8	7583.4	7327.3	6897.0	5902.3	3947.3
70°	5281.4	5338.0	5793.6	6765.9	7961.6	8247.5	8290.6	7494.0	6541.1	5000.0	2978.0
72.5°	5269.5	5372.2	5988.7	7170.9	8642.0	8889.2	8540.8	7025.0	5449.7	3485.7	1737.6
73°	5294.8	5345.4	5972.3	7284.1	8849.0	8972.6	8424.6	6877.6	5140.0	3126.9	1469.6
75°	4806.4	4977.7	5676.0	7099.5	8627.1	8604.8	7757.6	5731.1	3654.0	1642.3	711.7
77.5°	3555.7	3664.4	4472.9	5838.3	7081.6	6938.6	5851.7	3662.9	1734.7	609.0	384.2
80°	1737.6	1822.5	2370.5	3371.0	4630.7	4642.6	3631.6	1905.9	743.0	344.0	262.1
82.5°	868.1	918.7	1139.1	1481.5	2278.1	2386.8	1841.9	1084.0	460.1	195.1	148.9
85°	567.3	603.0	701.3	725.1	966.3	1020.0	857.7	845.7	299.3	105.7	120.6
87.5°	376.7	382.7	430.3	366.3	387.1	372.2	413.9	533.1	87.8	44.7	32.8
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°	2369.0	2369.0	2369.0	2369.0	2369.0	2369.0	2369.0	2369.0	2369.0	2369.0	2369.0
2.5°	2361.5	2340.7	2318.3	2287.1	2264.7	2230.5	2199.2	2185.8	2182.8	2184.3	2169.4
5°	2300.5	2270.7	2226.0	2162.0	2124.8	2068.2	2020.5	1995.2	1968.4	1972.9	1961.0
7.5°	2215.6	2182.8	2114.4	2039.9	1947.6	1867.2	1822.5	1760.0	1724.2	1697.4	1712.3
10°	2188.8	2132.2	2029.5	1926.7	1783.8	1678.1	1575.3	1503.9	1454.7	1407.1	1427.9
12.5°	2175.4	2118.8	1975.9	1824.0	1639.4	1478.6	1334.1	1246.3	1176.3	1134.6	1151.0
15°	2163.5	2093.5	1925.3	1710.8	1503.9	1292.4	1130.1	1014.0	947.0	906.8	911.3
17.5°	2179.9	2080.1	1850.8	1600.7	1355.0	1128.6	948.5	827.9	759.4	734.1	728.1
20°	2163.5	2065.2	1777.8	1490.5	1206.1	972.3	799.6	699.8	652.2	631.3	626.9
22.5°	2169.4	2029.5	1701.9	1368.4	1067.6	841.3	699.8	623.9	586.7	576.2	579.2
25°	2197.7	2008.6	1626.0	1234.4	930.6	744.5	635.8	577.7	550.9	540.5	543.5
27.5°	2218.6	2026.5	1557.5	1107.8	814.5	658.1	582.2	543.5	525.6	518.2	516.7
30°	2270.7	2036.9	1490.5	994.6	719.2	601.5	545.0	513.7	501.8	497.3	495.8
32.5°	2348.1	2056.3	1413.0	890.4	649.2	547.9	515.2	488.4	485.4	480.9	482.4
35°	2474.7	2123.3	1326.7	801.1	582.2	512.2	483.9	466.1	466.1	466.1	470.5
37.5°	2656.3	2217.1	1249.3	716.2	539.0	480.9	457.1	451.2	448.2	452.6	455.6
40°	2890.1	2330.3	1186.7	649.2	501.8	460.1	439.2	436.3	434.8	433.3	436.3
42.5°	3146.2	2474.7	1133.1	597.1	475.0	437.8	422.9	419.9	413.9	416.9	421.4
45°	3400.8	2653.4	1085.5	555.4	457.1	425.8	405.0	403.5	400.5	399.0	406.5
47.5°	3683.7	2829.1	1070.6	530.1	443.7	408.0	393.1	391.6	382.7	381.2	387.1
50°	3904.1	2958.6	1087.0	518.2	424.4	394.6	384.2	376.7	369.3	361.8	361.8
52.5°	4056.0	3047.9	1098.9	509.2	413.9	376.7	363.3	360.3	352.9	345.4	342.5
55°	4193.0	3101.5	1101.8	510.7	403.5	355.9	346.9	345.4	341.0	329.1	326.1
57.5°	4239.1	3079.2	1042.3	497.3	397.6	342.5	330.6	333.5	327.6	317.2	315.7
60°	4234.7	2924.4	906.8	479.5	384.2	327.6	312.7	321.6	321.6	309.7	308.2
62.5°	3977.1	2567.0	741.5	445.2	369.3	312.7	296.3	309.7	314.2	306.7	305.2
65°	3442.5	2090.5	619.4	411.0	346.9	296.3	279.9	294.8	302.3	299.3	297.8
67.5°	2848.4	1599.2	515.2	366.3	318.6	274.0	260.6	271.0	275.5	277.0	278.4
70°	2013.1	1064.6	430.3	317.2	279.9	250.1	235.3	236.7	235.3	239.7	239.7
72.5°	1094.4	613.5	349.9	269.5	241.2	217.4	207.0	199.5	199.5	198.0	198.0
73°	936.6	550.9	333.5	262.1	230.8	211.4	199.5	193.6	193.6	192.1	190.6
75°	525.6	403.5	285.9	224.8	199.5	184.6	175.7	166.8	165.3	165.3	165.3
77.5°	345.4	314.2	227.8	180.2	160.8	147.4	144.4	135.5	135.5	135.5	134.0
80°	259.1	247.2	175.7	137.0	123.6	113.2	110.2	104.2	102.7	96.8	98.3
82.5°	172.7	195.1	128.1	96.8	83.4	77.4	77.4	75.9	71.5	64.0	64.0
85°	137.0	159.3	92.3	59.6	49.1	41.7	43.2	41.7	40.2	32.8	31.3
87.5°	25.3	64.0	26.8	16.4	11.9	7.4	7.4	4.5	3.0	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)