

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: P480883

Luminaire Tested: **IFLD-S-SA2C-740-U-SL4**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480883
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-740-U-SL4
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

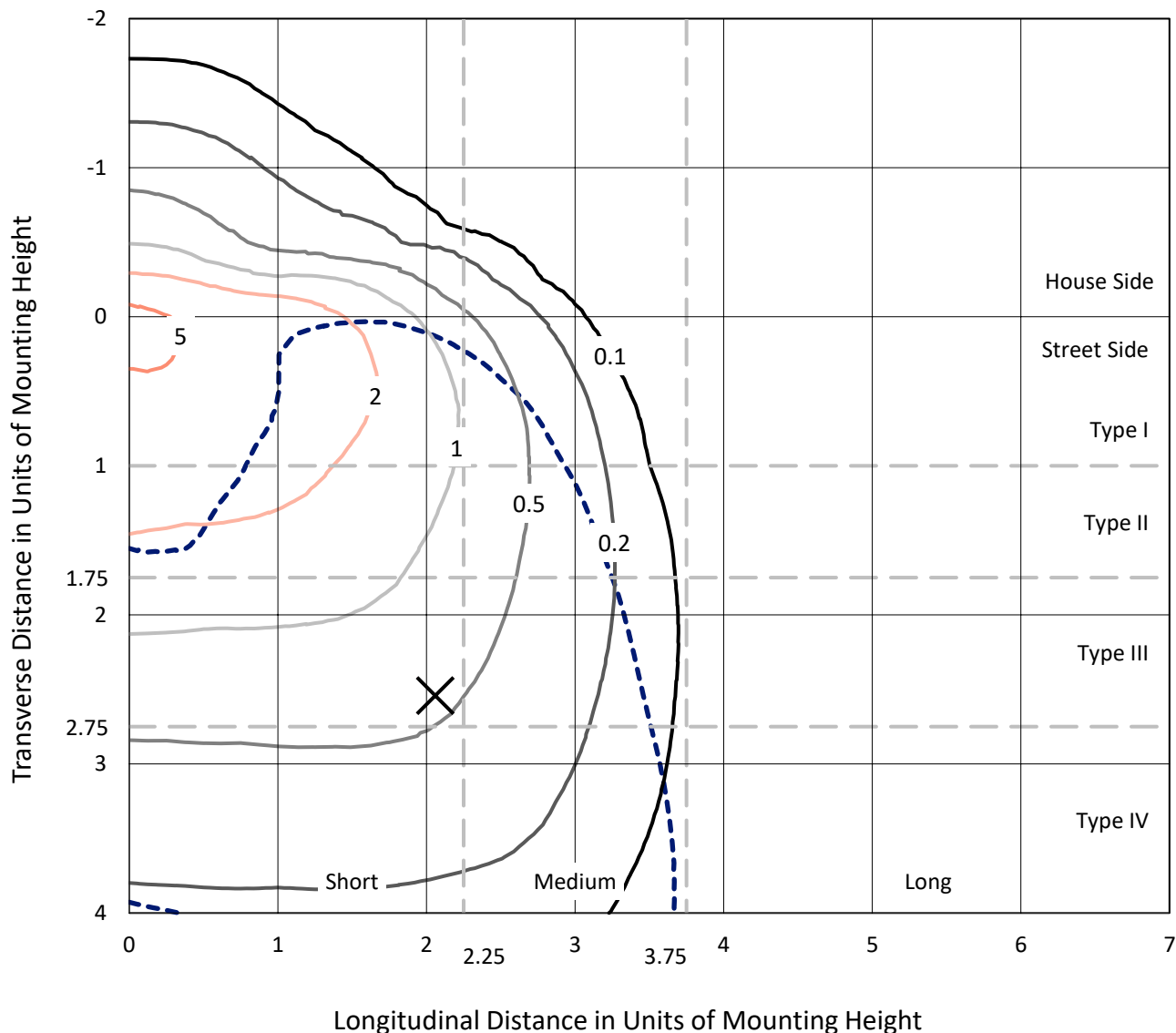
Lumens per Lamp: N/A
Luminaire Lumens: 13748.3 lumens
Efficiency: N/A
Efficacy: 127.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 108.2
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

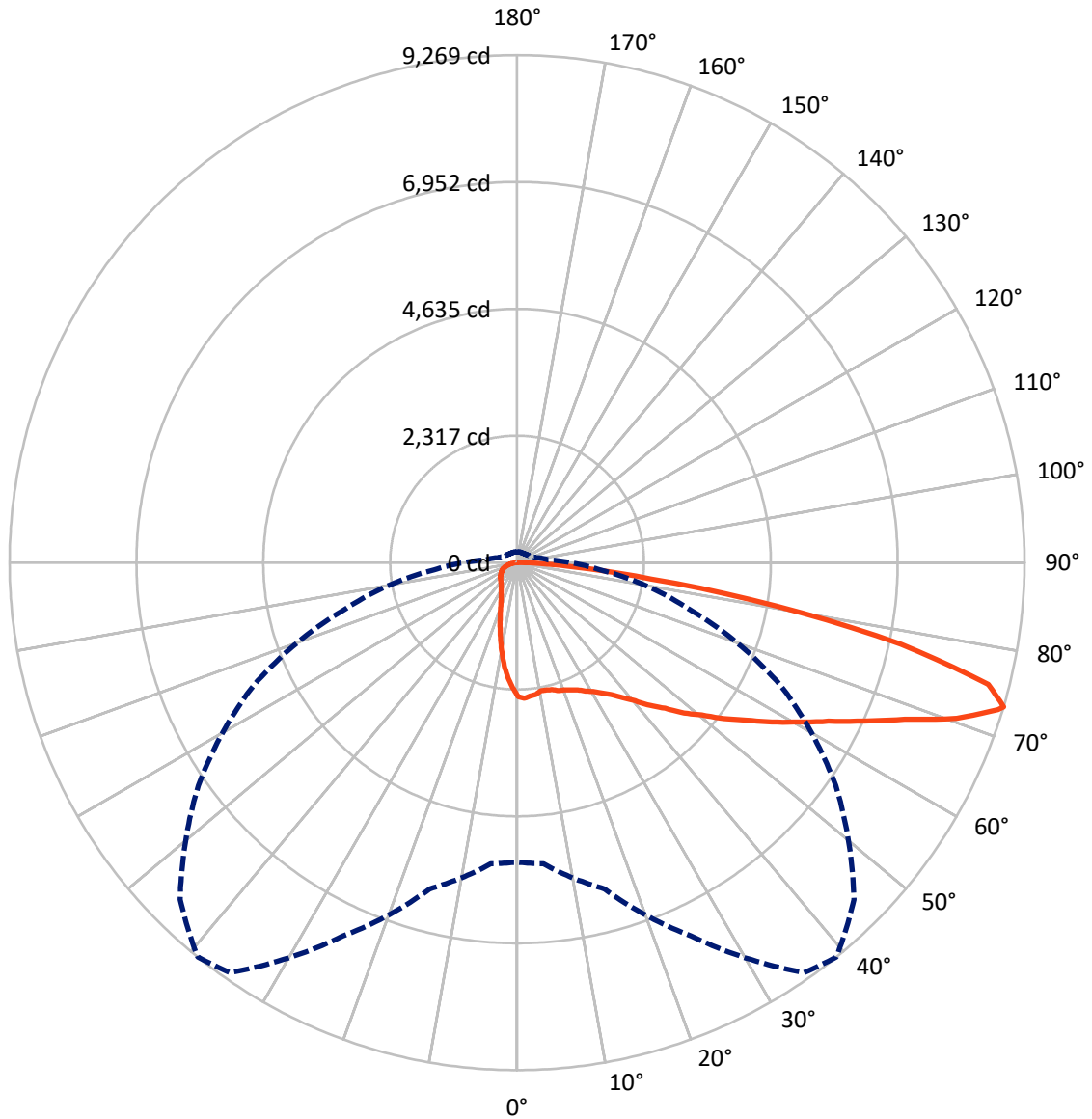
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.1 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	1932.6	0.0	1932.6
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	11815.7	0.0	11815.7
	% Fixture	85.9	0.0	85.9
Total	Lumens	13748.3	0.0	13748.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.4	1.5
10°-20°	540.1	3.9
20°-30°	825.3	6.0
30°-40°	1203.3	8.8
40°-50°	1818.3	13.2
50°-60°	2633.0	19.2
60°-70°	3345.3	24.3
70°-80°	2711.9	19.7
80°-90°	458.8	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°	13748.3	100.0
0°-180°	13748.3	100.0

Coefficient of Utilization

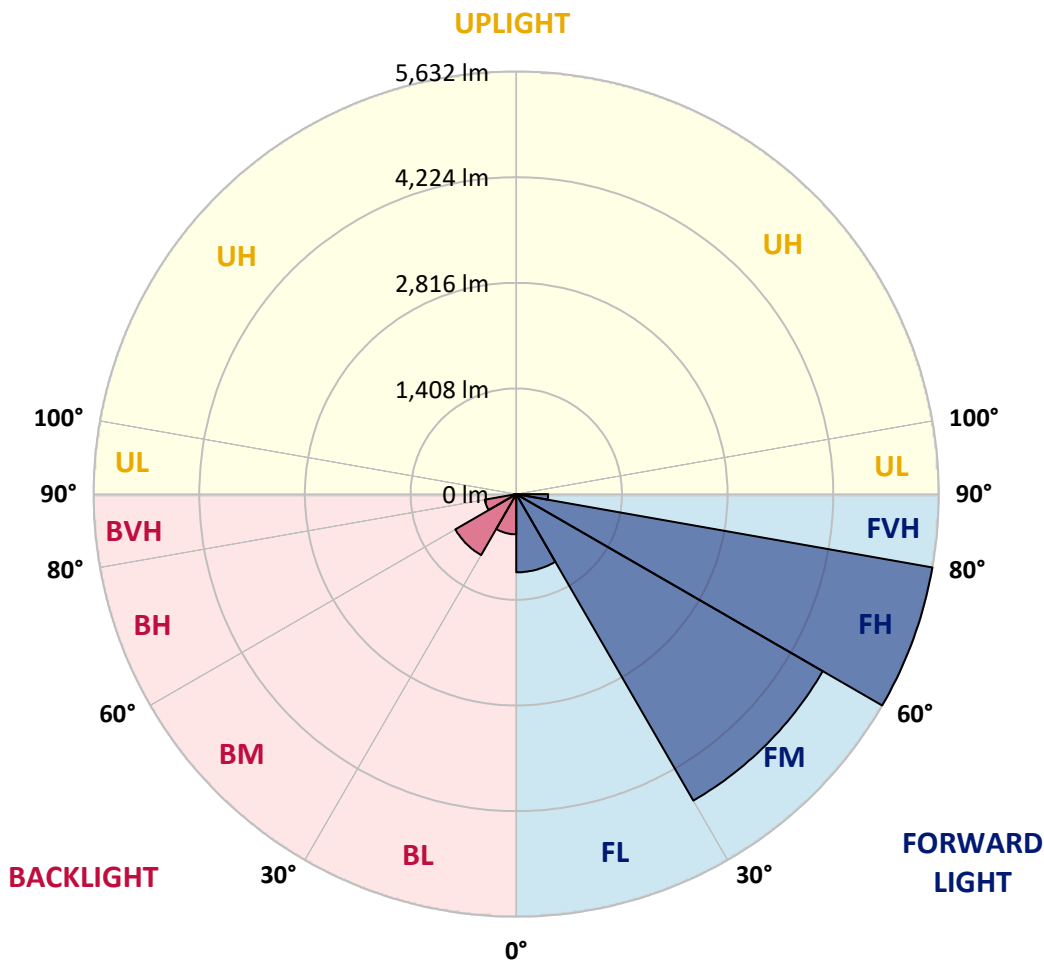


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1041.8	7.6			
FM (30°-60°)	4716.6	34.3			
FH (60°-80°)	5632.1	41.0			G3/7500
FVH (80°-90°)	425.2	3.1			G3/500
BL (0°-30°)	536.0	3.9	B2/1000		
BM (30°-60°)	938.0	6.8	B1/1000		
BH (60°-80°)	425.1	3.1	B1/500		G1/500
BVH (80°-90°)	33.7	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°	2447.3	2447.3	2447.3	2447.3	2447.3	2447.3	2447.3	2447.3	2447.3	2447.3	2447.3
2.5°	2505.7	2479.6	2484.2	2475.0	2484.2	2481.1	2476.5	2453.4	2476.5	2453.4	2447.3
5°	2471.9	2471.9	2487.3	2464.2	2467.3	2451.9	2467.3	2450.4	2435.0	2396.5	2385.8
7.5°	2461.1	2459.6	2461.1	2428.8	2444.2	2435.0	2419.6	2401.1	2370.4	2345.8	2310.4
10°	2387.3	2402.7	2385.8	2395.0	2407.3	2379.6	2378.1	2373.5	2359.6	2327.3	2305.8
12.5°	2347.3	2373.5	2382.7	2375.0	2385.8	2388.8	2379.6	2373.5	2356.5	2335.0	2273.5
15°	2364.2	2333.5	2359.6	2410.4	2399.6	2407.3	2408.8	2402.7	2395.0	2355.0	2315.0
17.5°	2368.8	2350.4	2405.8	2416.5	2430.4	2458.1	2439.6	2438.1	2408.8	2381.1	2322.7
20°	2379.6	2371.9	2416.5	2473.4	2475.0	2479.6	2488.8	2465.7	2450.4	2402.7	2313.5
22.5°	2419.6	2445.7	2487.3	2511.9	2525.7	2528.8	2528.8	2482.7	2465.7	2427.3	2356.5
25°	2539.6	2511.9	2570.3	2599.6	2579.6	2575.0	2564.2	2522.7	2504.2	2470.4	2376.5
27.5°	2627.3	2625.7	2659.6	2699.6	2645.7	2656.5	2618.0	2605.7	2564.2	2545.7	2411.9
30°	2747.2	2781.1	2779.5	2791.8	2721.1	2733.4	2684.2	2661.1	2638.0	2648.8	2516.5
32.5°	2901.1	2888.8	2908.7	2899.5	2828.8	2839.5	2781.1	2745.7	2753.4	2785.7	2659.6
35°	2999.5	2987.2	2994.9	2994.9	2973.4	2961.0	2936.4	2890.3	2927.2	2987.2	2819.5
37.5°	3105.6	3121.0	3165.6	3156.4	3128.7	3128.7	3125.6	3093.3	3141.0	3288.7	3074.9
40°	3199.5	3241.0	3268.7	3287.1	3319.5	3319.5	3345.6	3327.1	3413.3	3650.2	3387.1
42.5°	3297.9	3299.5	3450.2	3464.0	3536.3	3567.1	3587.1	3602.5	3764.0	4028.6	3720.9
45°	3424.0	3431.7	3564.0	3670.2	3782.5	3793.2	3868.6	3919.4	4117.8	4442.3	4083.9
47.5°	3590.2	3580.9	3722.5	3891.7	4031.6	4105.5	4196.2	4251.6	4496.2	4891.5	4480.8
50°	3808.6	3780.9	3862.4	4128.5	4293.1	4374.7	4536.2	4628.5	4914.6	5320.7	4753.1
52.5°	4074.7	4028.6	4093.2	4383.9	4568.5	4733.1	4886.9	4989.9	5288.4	5652.9	4954.6
55°	4356.2	4260.8	4279.3	4654.6	4920.7	5076.1	5286.8	5394.5	5699.1	5951.3	5156.1
57.5°	4634.6	4574.6	4537.7	4914.6	5340.7	5489.9	5683.7	5823.7	6082.1	6215.9	5326.8
60°	4868.4	4853.0	4793.1	5317.6	5785.2	5912.9	6115.9	6202.1	6397.4	6460.5	5329.9
62.5°	5060.7	5008.4	5103.8	5642.1	6237.4	6382.0	6605.1	6612.8	6751.2	6612.8	5173.0
65°	5211.4	5214.5	5366.8	6034.4	6760.4	6974.2	7154.2	7134.2	7045.0	6522.0	4802.3
67.5°	5348.3	5406.8	5629.8	6465.1	7432.6	7634.1	7834.1	7569.5	7125.0	6097.5	4077.8
70°	5456.0	5514.5	5985.2	6989.6	8224.8	8520.1	8564.7	7741.8	6757.3	5165.3	3076.4
72.5°	5443.7	5549.9	6186.7	7408.0	8927.8	9183.1	8823.2	7257.3	5629.8	3600.9	1795.1
73°	5469.9	5522.2	6169.7	7524.9	9141.6	9269.2	8703.2	7105.0	5309.9	3230.2	1518.2
75°	4965.3	5142.2	5863.6	7334.2	8912.4	8889.3	8014.1	5920.6	3774.8	1696.6	735.3
77.5°	3673.2	3785.5	4620.8	6031.3	7315.7	7168.0	6045.2	3784.0	1792.0	629.1	396.9
80°	1795.1	1882.8	2448.8	3482.5	4783.8	4796.1	3751.7	1968.9	767.6	355.3	270.7
82.5°	896.8	949.1	1176.7	1530.5	2353.5	2465.7	1902.8	1119.8	475.3	201.5	153.8
85°	586.1	623.0	724.5	749.1	998.3	1053.7	886.0	873.7	309.2	109.2	124.6
87.5°	389.2	395.3	444.5	378.4	399.9	384.6	427.6	550.7	90.8	46.1	33.8
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°	2447.3	2447.3	2447.3	2447.3	2447.3	2447.3	2447.3	2447.3	2447.3	2447.3	2447.3
2.5°	2439.6	2418.1	2395.0	2362.7	2339.6	2304.2	2271.9	2258.1	2255.0	2256.6	2241.2
5°	2376.5	2345.8	2299.6	2233.5	2195.0	2136.6	2087.3	2061.2	2033.5	2038.1	2025.8
7.5°	2288.9	2255.0	2184.3	2107.3	2012.0	1928.9	1882.8	1818.2	1781.2	1753.6	1768.9
10°	2261.2	2202.7	2096.6	1990.4	1842.8	1733.6	1627.4	1553.6	1502.8	1453.6	1475.1
12.5°	2247.3	2188.9	2041.2	1884.3	1693.6	1527.4	1378.2	1287.5	1215.2	1172.1	1189.0
15°	2235.0	2162.7	1988.9	1767.4	1553.6	1335.2	1167.5	1047.5	978.3	936.8	941.4
17.5°	2251.9	2148.9	1912.0	1653.6	1399.8	1166.0	979.8	855.2	784.5	758.3	752.2
20°	2235.0	2133.5	1836.6	1539.7	1245.9	1004.4	826.0	723.0	673.7	652.2	647.6
22.5°	2241.2	2096.6	1758.2	1413.6	1102.9	869.1	723.0	644.5	606.1	595.3	598.4
25°	2270.4	2075.0	1679.7	1275.2	961.4	769.1	656.8	596.8	569.1	558.4	561.4
27.5°	2291.9	2093.5	1609.0	1144.4	841.4	679.9	601.4	561.4	543.0	535.3	533.8
30°	2345.8	2104.3	1539.7	1027.5	743.0	621.4	563.0	530.7	518.4	513.8	512.2
32.5°	2425.8	2124.3	1459.8	919.8	670.7	566.1	532.2	504.5	501.5	496.8	498.4
35°	2556.5	2193.5	1370.5	827.6	601.4	529.1	499.9	481.5	481.5	481.5	486.1
37.5°	2744.2	2290.4	1290.6	739.9	556.8	496.8	472.2	466.1	463.0	467.6	470.7
40°	2985.7	2407.3	1226.0	670.7	518.4	475.3	453.8	450.7	449.2	447.6	450.7
42.5°	3250.2	2556.5	1170.6	616.8	490.7	452.2	436.9	433.8	427.6	430.7	435.3
45°	3513.3	2741.1	1121.4	573.8	472.2	439.9	418.4	416.9	413.8	412.2	419.9
47.5°	3805.5	2922.6	1106.0	547.6	458.4	421.5	406.1	404.5	395.3	393.8	399.9
50°	4033.2	3056.4	1122.9	535.3	438.4	407.6	396.9	389.2	381.5	373.8	373.8
52.5°	4190.1	3148.7	1135.2	526.1	427.6	389.2	375.3	372.2	364.6	356.9	353.8
55°	4331.6	3204.1	1138.3	527.6	416.9	367.6	358.4	356.9	352.2	339.9	336.9
57.5°	4379.3	3181.0	1076.7	513.8	410.7	353.8	341.5	344.6	338.4	327.6	326.1
60°	4374.7	3021.0	936.8	495.3	396.9	338.4	323.0	332.3	332.3	319.9	318.4
62.5°	4108.6	2651.9	766.0	459.9	381.5	323.0	306.1	319.9	324.6	316.9	315.3
65°	3556.3	2159.6	639.9	424.5	358.4	306.1	289.2	304.6	312.3	309.2	307.6
67.5°	2942.6	1652.0	532.2	378.4	329.2	283.0	269.2	280.0	284.6	286.1	287.6
70°	2079.7	1099.8	444.5	327.6	289.2	258.4	243.0	244.6	243.0	247.7	247.7
72.5°	1130.6	633.7	361.5	278.4	249.2	224.6	213.8	206.1	206.1	204.6	204.6
73°	967.5	569.1	344.6	270.7	238.4	218.4	206.1	200.0	200.0	198.4	196.9
75°	543.0	416.9	295.3	232.3	206.1	190.7	181.5	172.3	170.7	170.7	170.7
77.5°	356.9	324.6	235.3	186.1	166.1	152.3	149.2	140.0	140.0	140.0	138.4
80°	267.6	255.3	181.5	141.5	127.7	116.9	113.8	107.7	106.1	100.0	101.5
82.5°	178.4	201.5	132.3	100.0	86.1	80.0	80.0	78.4	73.8	66.1	66.1
85°	141.5	164.6	95.4	61.5	50.8	43.1	44.6	43.1	41.5	33.8	32.3
87.5°	26.1	66.1	27.7	16.9	12.3	7.7	7.7	4.6	3.1	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)