

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: P478081

Luminaire Tested: **IFLD-S-SA3D-730-U-T4FT**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478081
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-730-U-T4FT
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens
Light Source: (48) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

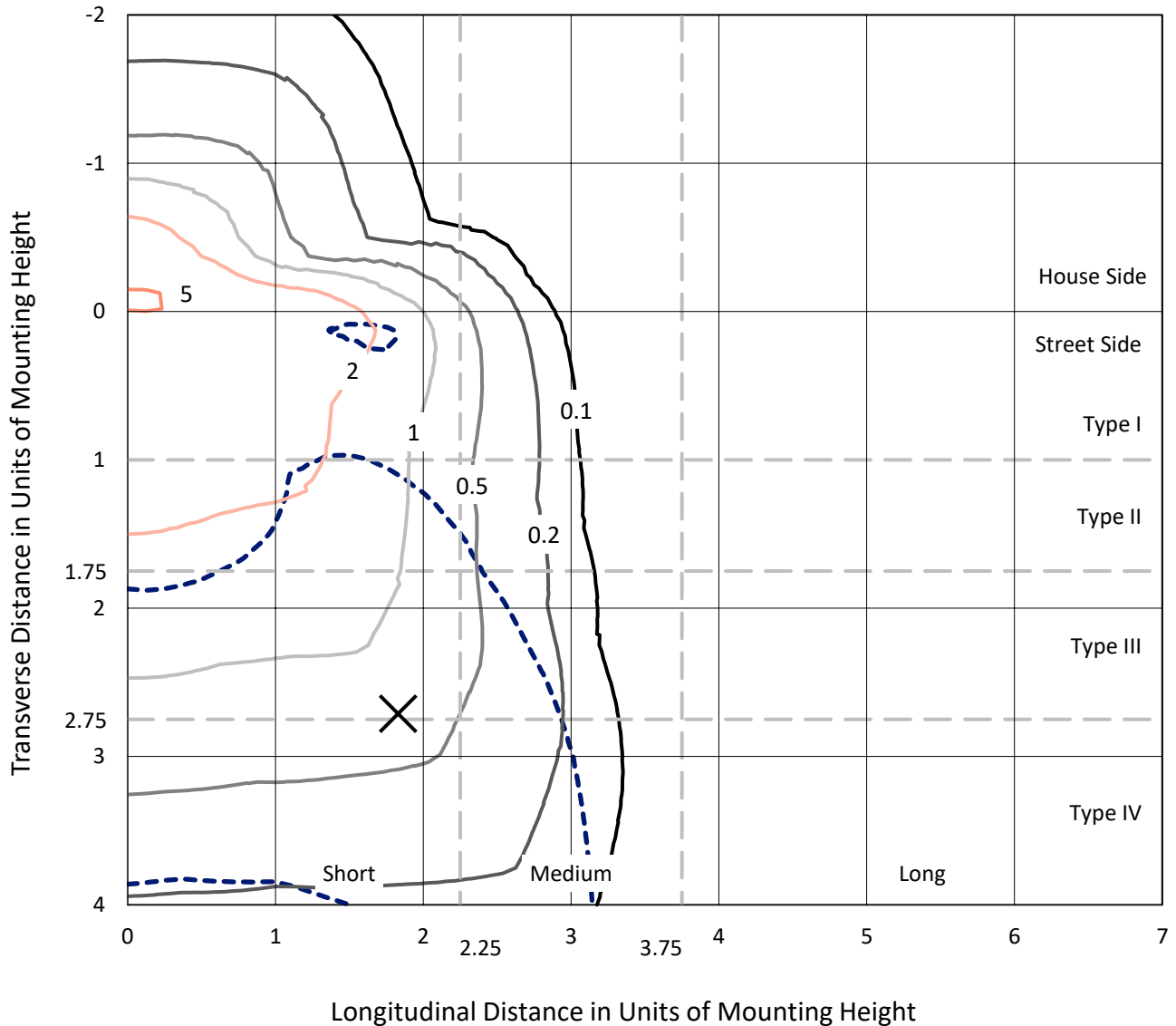
Lumens per Lamp: N/A
Luminaire Lumens: 21743.1 lumens
Efficiency: N/A
Efficacy: 118.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 184.1
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

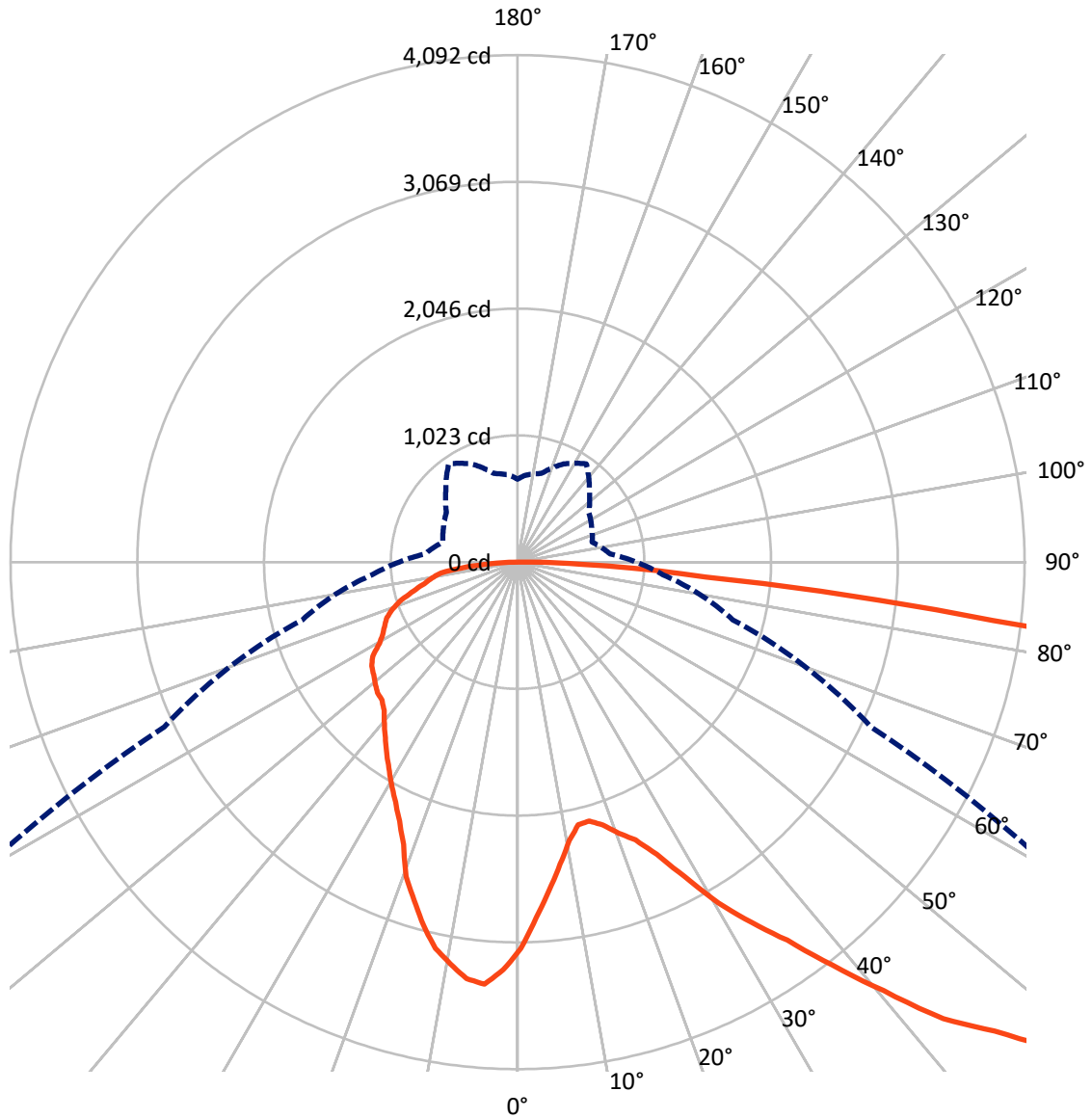
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4696.8	0.0	4696.8
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	17046.4	0.0	17046.4
	% Fixture	78.4	0.0	78.4
Total	Lumens	21743.1	0.0	21743.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	287.7	1.3
10°-20°	805.2	3.7
20°-30°	1325.2	6.1
30°-40°	1981.8	9.1
40°-50°	2937.9	13.5
50°-60°	4233.9	19.5
60°-70°	5403.0	24.8
70°-80°	4204.4	19.3
80°-90°	564.0	2.6
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°	21743.1	100.0
0°-180°	21743.1	100.0

Coefficient of Utilization



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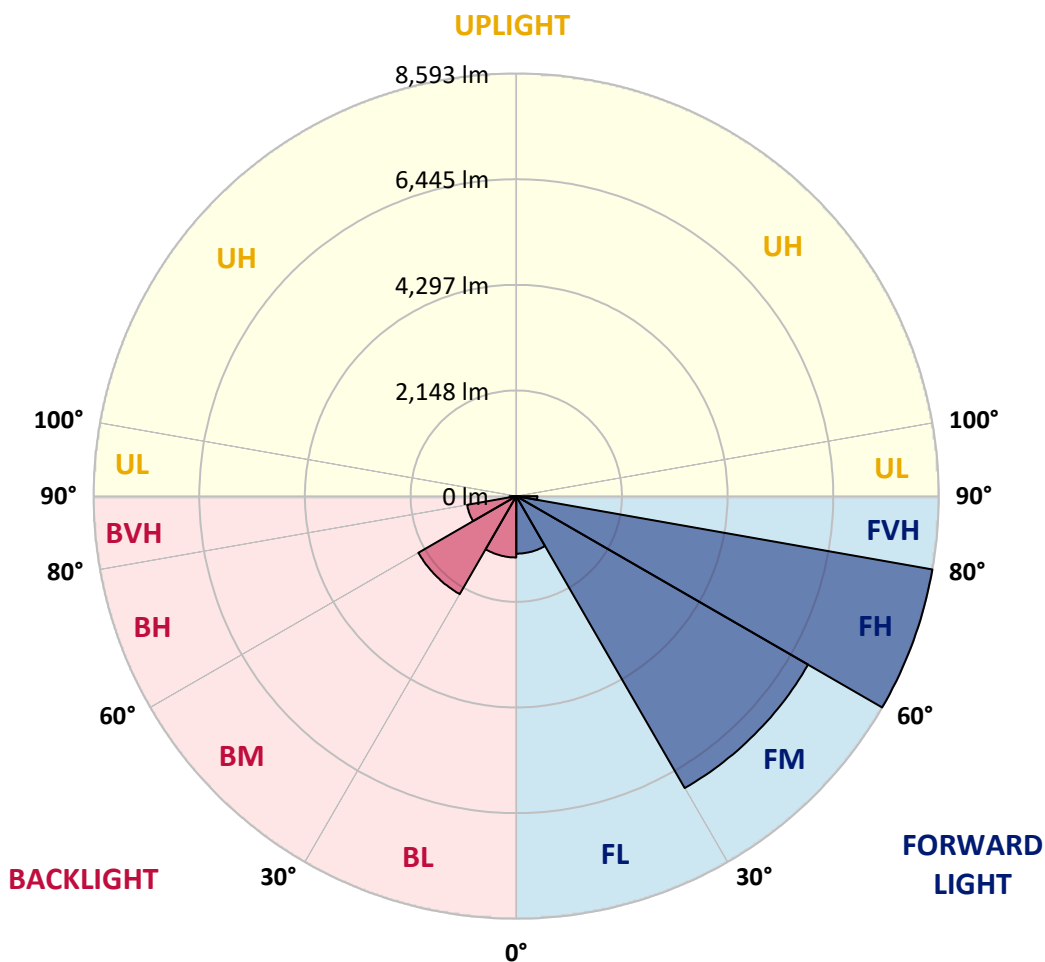
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1170.1	5.4			
FM (30°-60°)	6853.6	31.5			
FH (60°-80°)	8593.3	39.5			G4/12000
FVH (80°-90°)	429.3	2.0			G3/500
BL (0°-30°)	1247.9	5.7	B3/2500		
BM (30°-60°)	2300.0	10.6	B2/2500		
BH (60°-80°)	1014.1	4.7	B3/2500		G3/2500
BVH (80°-90°)	134.7	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	3117.2	3117.2	3117.2	3117.2	3117.2	3117.2	3117.2	3117.2	3117.2	3117.2	3117.2
2.5°	2793.1	2802.3	2832.2	2839.1	2871.2	2852.9	2891.9	2960.9	3000.0	3057.5	3126.4
5°	2572.4	2533.3	2551.7	2623.0	2659.8	2668.9	2710.3	2827.6	2901.1	2986.2	3114.9
7.5°	2312.6	2305.7	2342.5	2388.5	2462.1	2469.0	2560.9	2664.4	2816.1	3004.6	3156.3
10°	2135.6	2165.5	2186.2	2234.5	2285.0	2285.0	2402.3	2581.6	2754.0	2935.6	3165.5
12.5°	2126.4	2108.0	2112.6	2137.9	2174.7	2220.7	2331.0	2491.9	2710.3	2921.8	3204.6
15°	2156.3	2163.2	2121.8	2154.0	2167.8	2183.9	2305.7	2487.3	2682.7	2970.1	3271.2
17.5°	2314.9	2275.8	2211.5	2181.6	2229.9	2229.9	2312.6	2455.2	2687.3	2995.4	3367.8
20°	2439.1	2439.1	2333.3	2301.1	2335.6	2328.7	2386.2	2491.9	2710.3	3046.0	3475.8
22.5°	2648.3	2678.1	2503.4	2436.8	2434.5	2452.9	2503.4	2593.1	2774.7	3117.2	3579.3
25°	2949.4	2956.3	2754.0	2685.0	2611.5	2641.4	2650.6	2740.2	2832.2	3200.0	3696.5
27.5°	3285.0	3280.4	3094.2	2921.8	2873.5	2880.4	2829.9	2889.6	2917.2	3225.3	3864.3
30°	3657.4	3616.1	3475.8	3232.2	3193.1	3149.4	3039.1	3036.8	3094.2	3367.8	4096.5
32.5°	3901.1	3848.3	3751.7	3577.0	3468.9	3473.5	3298.8	3296.5	3246.0	3524.1	4298.8
35°	4140.2	4059.7	4034.5	3855.1	3747.1	3758.6	3618.4	3600.0	3508.0	3760.9	4632.2
37.5°	4427.6	4356.3	4395.4	4259.7	4126.4	4071.2	4006.9	3983.9	3864.3	4094.2	5087.3
40°	4744.8	4721.8	4696.5	4629.9	4549.4	4554.0	4485.0	4462.0	4285.0	4496.5	5524.1
42.5°	5172.4	5085.0	4954.0	4997.7	5039.0	5082.7	5059.7	5000.0	4816.1	4905.7	6011.5
45°	5570.1	5455.1	5213.8	5227.6	5397.7	5432.2	5710.3	5703.4	5333.3	5425.3	6565.5
47.5°	5839.0	5786.2	5641.3	5625.3	5868.9	5866.6	6367.8	6367.8	5878.1	5942.5	7160.9
50°	6239.0	6101.1	6039.0	6119.5	6243.6	6328.7	7039.0	7082.7	6413.8	6482.7	7940.2
52.5°	6708.0	6535.6	6379.3	6586.2	6806.9	6862.0	7703.4	7685.0	6825.2	7110.3	8852.8
55°	7096.5	7009.2	6901.1	7020.6	7381.6	7450.5	8370.1	8200.0	7236.7	7629.8	9291.9
57.5°	7549.4	7602.3	7625.2	7595.4	8025.2	8133.3	9131.0	8643.6	7590.8	7979.3	9549.4
60°	8232.1	8264.3	8294.2	8365.5	8820.6	8972.4	9733.3	9199.9	7813.7	8181.6	9570.1
62.5°	9271.2	9147.1	9213.7	9459.7	9825.2	9997.6	10620.6	9590.7	7983.9	8303.4	8894.2
65°	10459.7	10291.9	10222.9	10540.2	11487.3	11349.4	11728.7	9882.7	7737.9	7848.2	7542.5
67.5°	11664.3	11682.7	11505.7	12142.5	13303.4	13303.4	12758.5	10022.9	7071.2	6360.9	5289.6
70°	12620.6	12678.1	12774.6	14009.1	15848.2	16126.3	14034.4	9448.2	5712.6	4234.5	2891.9
72.5°	12606.8	12434.4	12928.7	15202.2	18160.8	17928.6	14301.1	7471.2	3565.5	2073.6	1326.4
73°	12324.1	12179.2	12719.5	15190.7	18255.1	18036.7	14105.7	6887.3	3144.8	1797.7	1179.3
75°	10064.3	9802.2	10721.8	13758.5	16889.6	17057.4	11983.8	4491.9	1724.1	1108.0	829.9
77.5°	4588.5	4703.4	5901.1	9229.8	13016.0	13213.7	7878.1	1942.5	944.8	777.0	611.5
80°	1473.6	1547.1	2296.5	4588.5	8158.6	8514.9	3641.4	882.8	673.6	595.4	457.5
82.5°	563.2	560.9	963.2	1908.0	3866.6	4094.2	1331.0	537.9	501.1	439.1	324.1
85°	197.7	206.9	363.2	754.0	1521.8	1593.1	462.1	298.8	347.1	294.3	186.2
87.5°	69.0	71.3	128.7	273.6	524.1	554.0	128.7	119.5	172.4	170.1	94.3
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°	3117.2	3117.2	3117.2	3117.2	3117.2	3117.2	3117.2	3117.2	3117.2	3117.2	3117.2
2.5°	3149.4	3170.1	3177.0	3259.8	3259.8	3259.8	3291.9	3291.9	3282.7	3259.8	3314.9
5°	3163.2	3200.0	3271.2	3342.5	3360.9	3377.0	3420.7	3383.9	3397.7	3374.7	3395.4
7.5°	3202.3	3252.9	3386.2	3429.9	3400.0	3434.5	3388.5	3363.2	3337.9	3347.1	3314.9
10°	3268.9	3333.3	3395.4	3475.8	3418.4	3383.9	3289.6	3266.6	3186.2	3158.6	3183.9
12.5°	3351.7	3429.9	3535.6	3505.7	3395.4	3296.5	3195.4	3098.8	3050.6	2981.6	3000.0
15°	3434.5	3524.1	3540.2	3489.6	3351.7	3227.6	3043.7	2908.0	2859.8	2797.7	2829.9
17.5°	3524.1	3609.2	3581.6	3450.6	3264.3	3075.8	2866.6	2733.3	2632.2	2593.1	2593.1
20°	3657.4	3698.8	3655.2	3386.2	3158.6	2910.3	2708.0	2556.3	2455.2	2439.1	2413.8
22.5°	3760.9	3827.6	3632.2	3291.9	3004.6	2694.2	2462.1	2404.6	2374.7	2349.4	2317.2
25°	3894.2	3891.9	3590.8	3204.6	2740.2	2436.8	2296.5	2291.9	2278.1	2269.0	2312.6
27.5°	4020.7	3967.8	3542.5	2988.5	2466.7	2241.4	2165.5	2216.1	2236.8	2223.0	2241.4
30°	4220.7	4133.3	3473.5	2758.6	2225.3	2043.7	2057.5	2126.4	2160.9	2181.6	2154.0
32.5°	4432.2	4298.8	3331.0	2519.5	2011.5	1919.5	1951.7	2023.0	2064.4	2087.3	2112.6
35°	4737.9	4427.6	3186.2	2206.9	1857.5	1843.7	1862.1	1901.1	1960.9	1977.0	1983.9
37.5°	5114.9	4623.0	2990.8	1956.3	1737.9	1754.0	1772.4	1786.2	1788.5	1818.4	1806.9
40°	5491.9	4788.5	2705.7	1717.2	1613.8	1701.1	1691.9	1666.7	1646.0	1618.4	1611.5
42.5°	5823.0	4933.3	2388.5	1514.9	1503.4	1646.0	1616.1	1551.7	1503.4	1482.7	1448.3
45°	6195.4	5137.9	2069.0	1388.5	1418.4	1579.3	1570.1	1471.3	1409.2	1335.6	1326.4
47.5°	6678.1	5351.7	1763.2	1257.5	1337.9	1554.0	1558.6	1432.2	1342.5	1243.7	1229.9
50°	7296.5	5659.7	1531.0	1202.3	1289.6	1517.2	1524.1	1379.3	1262.1	1160.9	1151.7
52.5°	7889.6	5974.7	1337.9	1117.2	1257.5	1473.6	1489.6	1331.0	1195.4	1069.0	1075.9
55°	8188.5	5859.7	1172.4	1055.2	1183.9	1402.3	1462.1	1296.5	1094.2	1006.9	1004.6
57.5°	8255.1	5577.0	1041.4	990.8	1121.8	1326.4	1416.1	1193.1	1048.3	974.7	965.5
60°	8036.7	5082.7	937.9	921.8	1043.7	1248.3	1310.3	1137.9	1002.3	942.5	928.7
62.5°	7498.8	4570.1	866.7	889.6	977.0	1163.2	1243.7	1098.8	958.6	917.2	887.4
65°	6149.4	3758.6	809.2	827.6	908.0	1080.5	1202.3	1055.2	919.5	880.5	878.2
67.5°	4259.7	2590.8	763.2	797.7	852.9	1020.7	1160.9	1006.9	869.0	855.2	836.8
70°	2181.6	1381.6	703.4	731.0	793.1	944.8	1087.3	956.3	816.1	813.8	790.8
72.5°	1105.7	809.2	634.5	675.9	719.5	846.0	995.4	889.6	749.4	724.1	687.4
73°	956.3	749.4	623.0	659.8	701.1	818.4	967.8	873.6	740.2	703.4	669.0
75°	696.5	590.8	558.6	595.4	627.6	737.9	875.9	800.0	680.5	641.4	609.2
77.5°	521.8	455.2	464.4	505.7	533.3	636.8	779.3	724.1	616.1	563.2	549.4
80°	383.9	347.1	383.9	423.0	443.7	560.9	710.3	627.6	519.5	459.8	448.3
82.5°	273.6	252.9	296.5	321.8	331.0	464.4	639.1	501.1	393.1	314.9	289.7
85°	156.3	154.0	200.0	197.7	204.6	271.3	420.7	333.3	252.9	193.1	188.5
87.5°	69.0	75.9	101.1	80.5	85.1	128.7	179.3	124.1	103.4	57.5	43.7
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)