

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: P481352

Luminaire Tested: **IFLD-S-SA2D-760-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481352
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-760-U-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (32) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

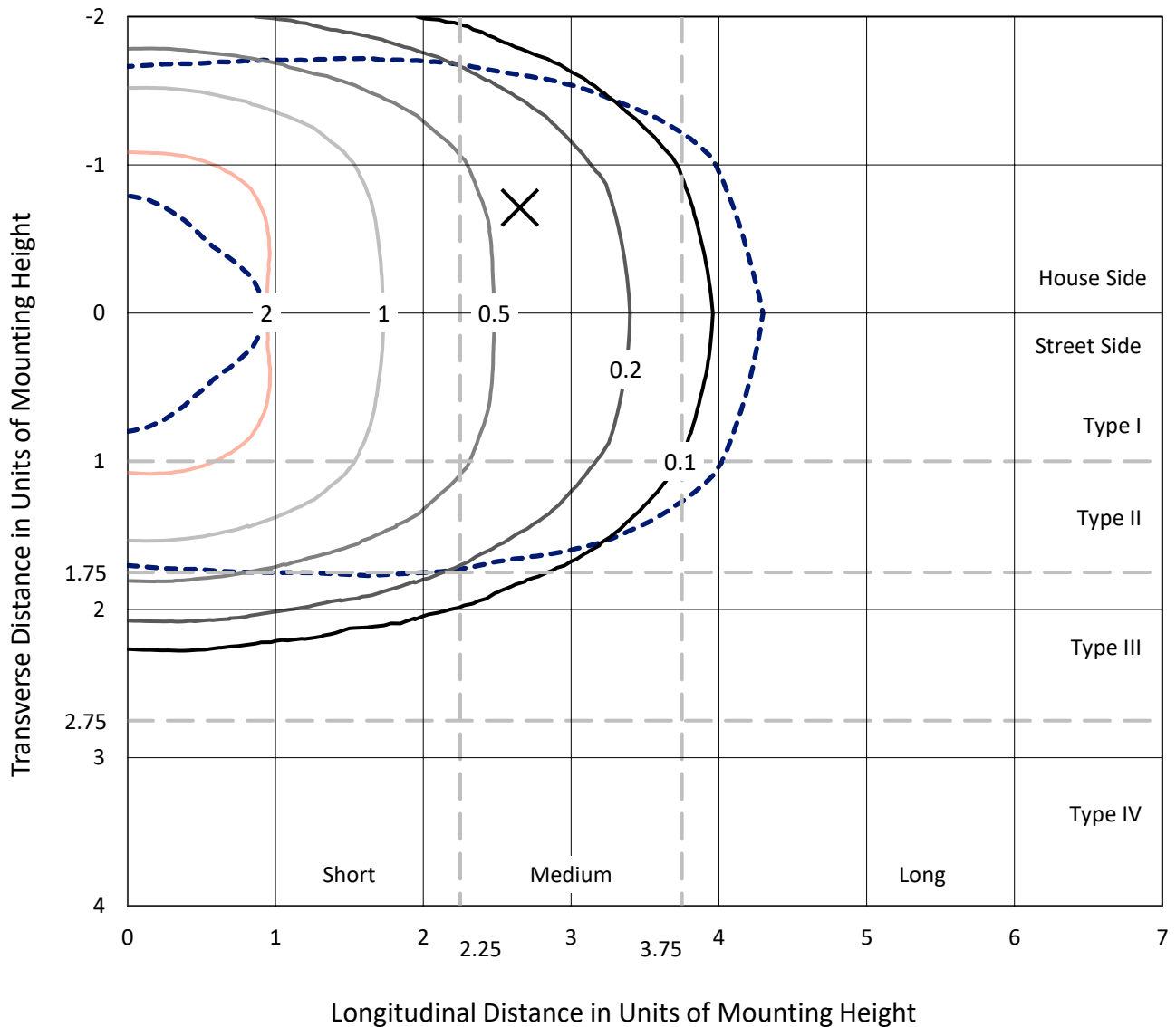
Lumens per Lamp: N/A
Luminaire Lumens: 16478.1 lumens
Efficiency: N/A
Efficacy: 133.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

Input Watts (W): 123.9
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

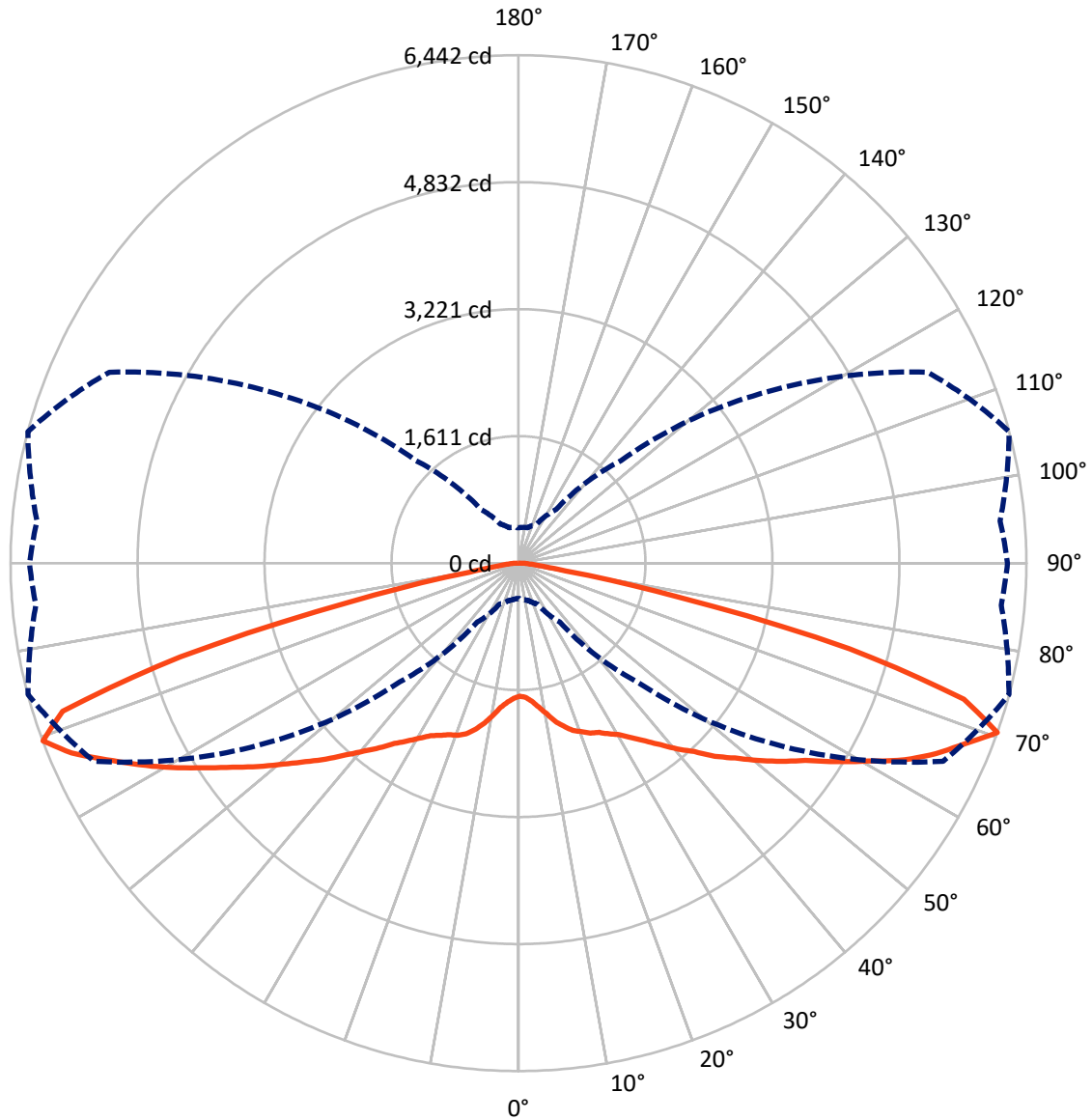
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 105-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8180.4	0.0	8180.4
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	8297.6	0.0	8297.6
	% Fixture	50.4	0.0	50.4
Total	Lumens	16478.1	0.0	16478.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.9	1.0
10°-20°	571.8	3.5
20°-30°	1107.3	6.7
30°-40°	1872.9	11.4
40°-50°	2987.8	18.1
50°-60°	4089.6	24.8
60°-70°	3854.8	23.4
70°-80°	1698.1	10.3
80°-90°	127.8	0.8
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°	16478.1	100.0
0°-180°	16478.1	100.0

Coefficient of Utilization

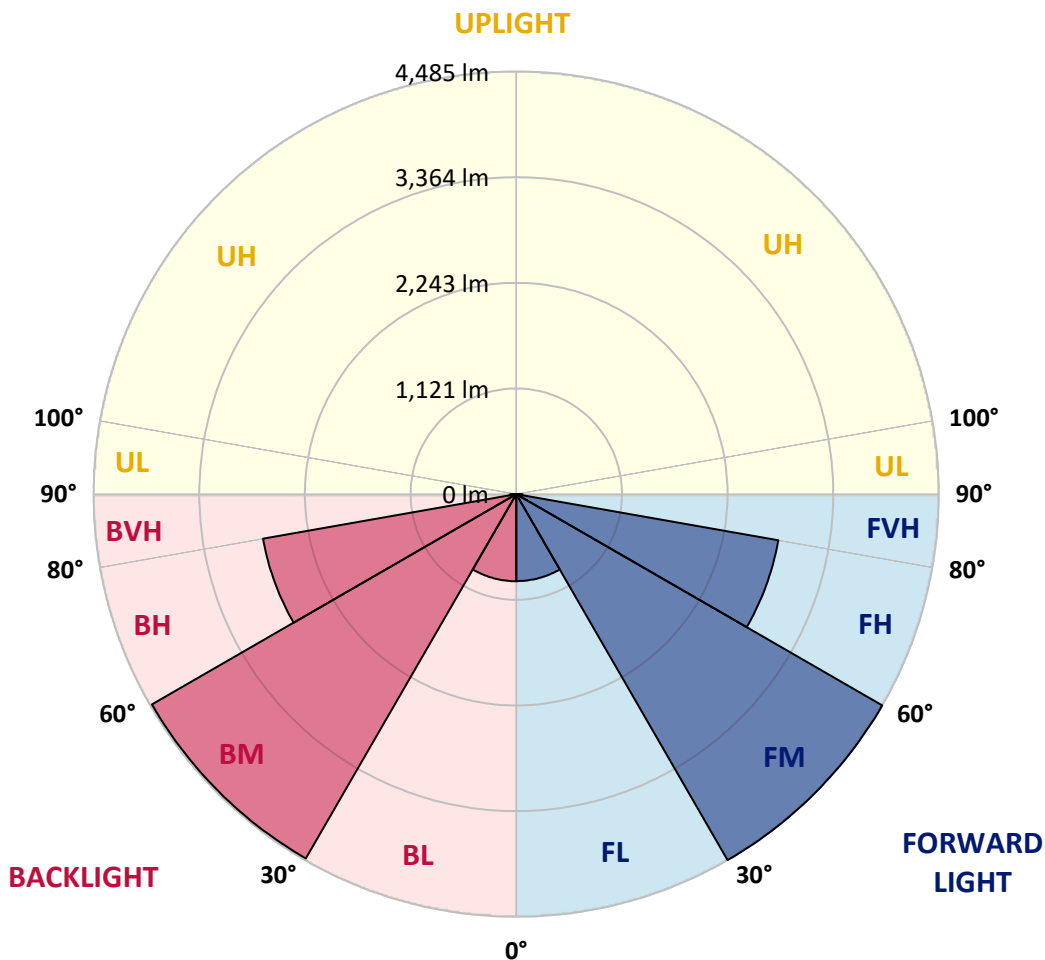


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	923.0	5.6			
FM (30°-60°)	4485.2	27.2			
FH (60°-80°)	2824.2	17.1			G2/5000
FVH (80°-90°)	65.3	0.4			G1/100
BL (0°-30°)	924.0	5.6	B2/1000		
BM (30°-60°)	4465.1	27.1	B3/5000		
BH (60°-80°)	2728.7	16.6	B4/5000		G4/5000
BVH (80°-90°)	62.5	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1687.3	1687.3	1687.3	1687.3	1687.3	1687.3	1687.3	1687.3	1687.3	1687.3	1687.3
2.5°	1676.7	1676.7	1674.9	1683.8	1692.7	1696.2	1703.3	1705.1	1715.8	1706.9	1724.6
5°	1671.3	1669.6	1683.8	1705.1	1705.1	1728.2	1742.4	1761.9	1767.3	1777.9	1781.5
7.5°	1708.6	1705.1	1698.0	1721.1	1740.6	1776.1	1795.7	1829.4	1841.9	1856.1	1872.1
10°	1731.7	1731.7	1724.6	1765.5	1783.2	1831.2	1873.8	1907.6	1955.5	1971.5	1973.3
12.5°	1735.3	1740.6	1761.9	1815.2	1864.9	1927.1	1959.1	2023.0	2071.0	2101.2	2111.8
15°	1788.6	1777.9	1801.0	1873.8	1946.7	2001.7	2058.5	2104.7	2174.0	2213.1	2237.9
17.5°	1836.5	1825.9	1868.5	1955.5	2030.1	2115.4	2165.1	2214.8	2264.6	2300.1	2301.9
20°	1912.9	1921.8	1959.1	2053.2	2150.9	2225.5	2282.3	2291.2	2316.1	2367.6	2358.7
22.5°	2007.0	1999.9	2078.1	2181.1	2287.7	2349.8	2381.8	2358.7	2346.3	2401.3	2413.8
25°	2101.2	2122.5	2193.5	2289.4	2417.3	2500.8	2509.7	2445.7	2399.6	2419.1	2413.8
27.5°	2245.0	2248.6	2323.2	2436.9	2566.5	2639.3	2634.0	2543.4	2454.6	2456.4	2460.0
30°	2429.8	2412.0	2493.7	2596.7	2724.6	2790.3	2799.2	2669.5	2550.5	2515.0	2523.9
32.5°	2607.4	2628.7	2699.7	2817.0	2911.1	2948.4	2928.9	2813.4	2658.9	2610.9	2616.3
35°	2834.7	2831.2	2928.9	3028.3	3099.4	3106.5	3090.5	2921.8	2776.1	2713.9	2689.1
37.5°	3078.1	3110.0	3174.0	3255.7	3330.3	3333.8	3246.8	3111.8	2932.4	2829.4	2859.6
40°	3349.8	3385.3	3431.5	3550.5	3605.6	3548.7	3459.9	3277.0	3090.5	2999.9	3014.1
42.5°	3589.6	3605.6	3699.7	3840.0	3866.7	3841.8	3710.4	3488.3	3271.7	3172.2	3179.3
45°	3809.8	3831.1	3953.7	4079.8	4142.0	4099.3	3946.6	3735.2	3483.0	3397.8	3364.0
47.5°	4012.3	4054.9	4173.9	4303.6	4399.5	4403.1	4214.8	3959.0	3692.6	3580.7	3578.9
50°	4149.1	4211.2	4328.5	4475.9	4616.2	4671.3	4483.0	4207.7	3921.7	3802.7	3790.3
52.5°	4223.7	4287.6	4404.8	4634.0	4790.3	4875.5	4786.7	4440.4	4189.9	4065.6	4046.1
55°	4133.1	4175.7	4367.5	4689.0	4930.6	5070.9	5012.3	4761.8	4456.3	4355.1	4372.9
57.5°	3747.7	3836.5	4072.7	4474.1	4927.0	5271.6	5266.3	5065.6	4763.6	4667.7	4671.3
60°	3085.2	3159.8	3451.0	4012.3	4728.1	5353.3	5541.6	5360.4	5108.2	4996.3	4992.7
62.5°	2177.5	2271.7	2609.2	3221.9	4142.0	5239.6	5857.7	5731.6	5445.7	5363.9	5394.1
65°	1218.4	1275.3	1587.9	2142.0	3156.2	4614.4	5914.6	6117.0	5788.4	5664.1	5669.4
67.5°	651.8	673.2	818.8	1124.3	1930.7	3557.6	5340.9	6339.0	6159.7	5944.7	5911.0
70°	447.6	454.7	492.0	575.5	912.9	2127.8	4028.3	5943.0	6438.5	6145.5	6202.3
72.5°	378.3	374.8	383.6	392.5	477.8	952.0	2364.0	4573.6	6078.0	5967.8	5946.5
75°	328.6	326.8	330.4	321.5	332.1	419.2	1046.1	2850.7	4449.2	4966.1	5046.0
77.5°	271.7	273.5	275.3	266.4	262.9	277.1	420.9	1252.2	2190.0	2417.3	2607.4
80°	206.0	209.6	223.8	214.9	200.7	202.5	248.7	419.2	628.8	570.1	587.9
82.5°	140.3	142.1	172.3	161.6	151.0	136.8	159.9	216.7	245.1	186.5	163.4
85°	99.5	97.7	111.9	103.0	95.9	69.3	95.9	122.6	147.4	92.4	83.5
87.5°	23.1	23.1	46.2	37.3	35.5	28.4	37.3	48.0	63.9	40.9	37.3
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1687.3	1687.3	1687.3	1687.3	1687.3	1687.3	1687.3	1687.3	1687.3	1687.3
2.5°	1719.3	1703.3	1703.3	1699.8	1685.6	1682.0	1669.6	1673.1	1664.2	1655.4
5°	1779.7	1758.4	1758.4	1728.2	1699.8	1696.2	1682.0	1682.0	1667.8	1671.3
7.5°	1863.2	1843.6	1811.7	1785.0	1745.9	1730.0	1703.3	1699.8	1696.2	1689.1
10°	1962.6	1937.8	1905.8	1850.7	1818.8	1788.6	1761.9	1724.6	1715.8	1717.5
12.5°	2097.6	2058.5	1989.3	1941.3	1900.5	1861.4	1822.3	1767.3	1754.8	1760.2
15°	2193.5	2143.8	2074.5	2056.8	2001.7	1953.8	1889.8	1827.6	1806.3	1801.0
17.5°	2271.7	2230.8	2190.0	2163.3	2118.9	2060.3	1971.5	1900.5	1852.5	1847.2
20°	2335.6	2282.3	2273.5	2289.4	2234.4	2195.3	2087.0	1999.9	1936.0	1909.4
22.5°	2374.7	2341.0	2365.8	2380.0	2376.5	2310.8	2198.9	2097.6	2017.7	1992.8
25°	2417.3	2378.3	2467.1	2515.0	2527.4	2419.1	2332.1	2198.9	2120.7	2104.7
27.5°	2438.6	2452.9	2555.9	2657.1	2648.2	2564.7	2447.5	2328.5	2266.4	2237.9
30°	2500.8	2523.9	2680.2	2793.9	2795.6	2713.9	2625.1	2490.2	2420.9	2408.4
32.5°	2612.7	2641.1	2808.1	2928.9	2950.2	2888.0	2799.2	2715.7	2644.7	2616.3
35°	2698.0	2770.8	2959.1	3069.2	3126.0	3088.7	3039.0	2951.9	2877.3	2852.5
37.5°	2820.5	2921.8	3102.9	3252.1	3316.1	3312.5	3275.2	3181.1	3118.9	3097.6
40°	2996.4	3097.6	3262.8	3459.9	3578.9	3573.6	3552.3	3479.5	3387.1	3376.4
42.5°	3182.8	3266.3	3481.2	3706.8	3877.3	3859.6	3802.7	3717.5	3653.5	3639.3
45°	3364.0	3493.7	3692.6	3982.1	4110.0	4154.4	4086.9	3941.3	3868.4	3859.6
47.5°	3591.4	3694.4	3943.0	4202.4	4392.4	4399.5	4284.1	4149.1	4015.9	4044.3
50°	3793.8	3930.6	4182.8	4467.0	4694.3	4612.6	4465.2	4296.5	4200.6	4163.3
52.5°	4010.5	4177.5	4470.5	4760.1	4886.2	4804.5	4564.7	4376.4	4230.8	4214.8
55°	4326.7	4413.7	4797.4	5019.4	5060.2	4887.9	4534.5	4268.1	4079.8	4033.6
57.5°	4648.2	4749.4	5085.1	5276.9	5234.3	4841.8	4339.1	3927.0	3680.2	3614.4
60°	4973.2	5097.5	5379.9	5555.8	5335.5	4523.8	3786.7	3255.7	2967.9	2909.3
62.5°	5335.5	5497.2	5749.4	5811.5	5035.4	3895.1	3005.2	2349.8	2058.5	1960.9
65°	5657.0	5822.2	6133.0	5758.3	4397.7	2905.8	1943.1	1342.8	1127.8	1049.7
67.5°	5921.7	6108.2	6260.9	5095.8	3220.1	1701.5	1012.4	706.9	627.0	598.6
70°	6131.2	6442.1	5728.1	3745.9	1840.1	829.5	547.1	465.3	454.7	447.6
72.5°	5948.3	5907.4	4276.9	2161.6	806.4	456.5	396.1	383.6	381.9	383.6
75°	4864.9	4339.1	2557.6	939.6	405.0	330.4	328.6	323.3	332.1	332.1
77.5°	2360.5	2063.9	1069.2	403.2	266.4	259.3	268.2	268.2	268.2	268.2
80°	547.1	605.7	381.9	245.1	193.6	193.6	213.1	214.9	206.0	202.5
82.5°	186.5	248.7	209.6	154.5	127.9	143.9	161.6	165.2	136.8	138.5
85°	92.4	145.6	113.7	88.8	65.7	88.8	104.8	110.1	94.1	90.6
87.5°	42.6	63.9	42.6	30.2	23.1	32.0	30.2	24.9	14.2	14.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)