

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: P481238

Luminaire Tested: **IFLD-S-SA3B-735-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481238
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-735-U-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (48) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

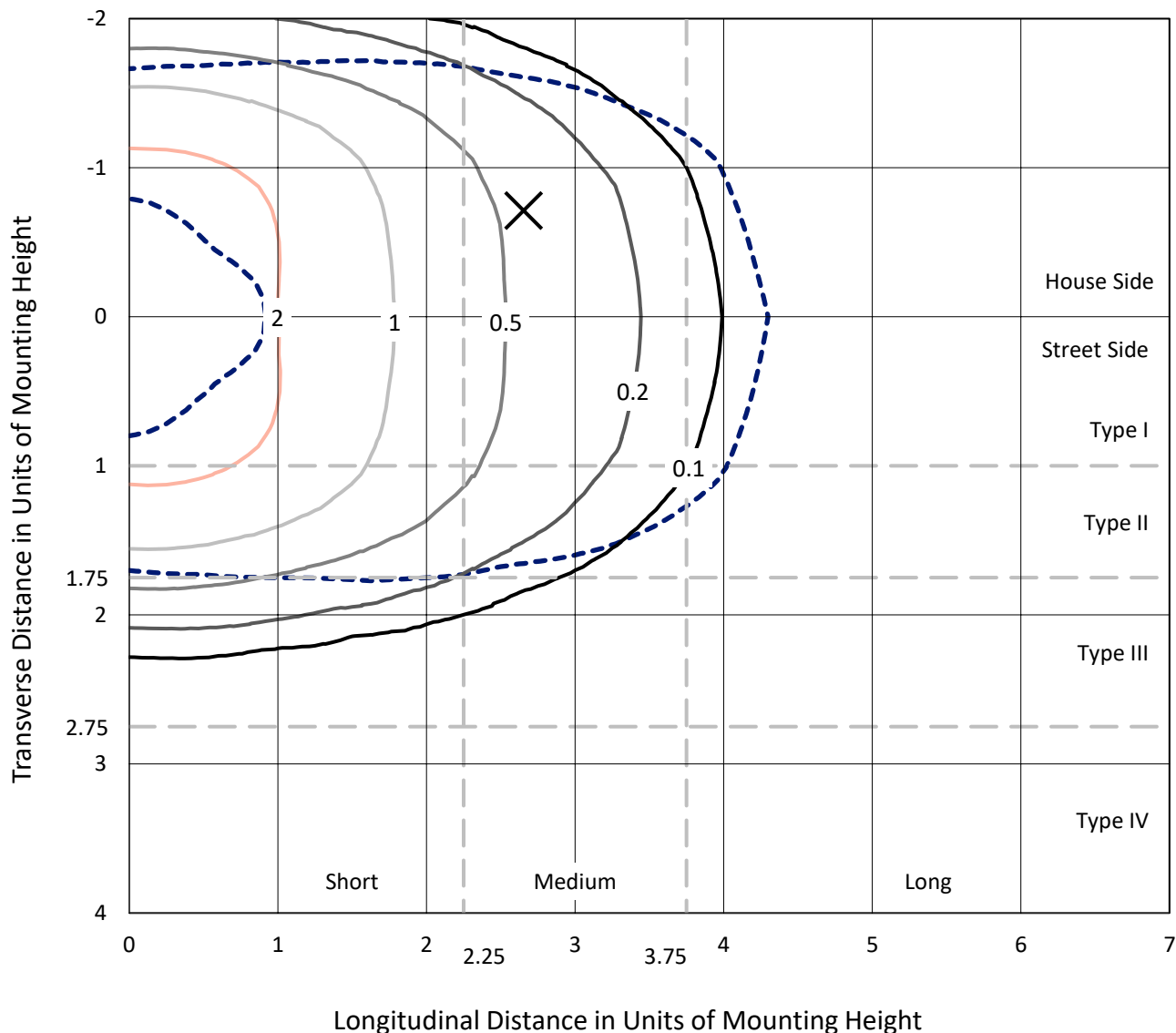
Lumens per Lamp: N/A
Luminaire Lumens: 17286.7 lumens
Efficiency: N/A
Efficacy: 141.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

Input Watts (W): 122.4
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

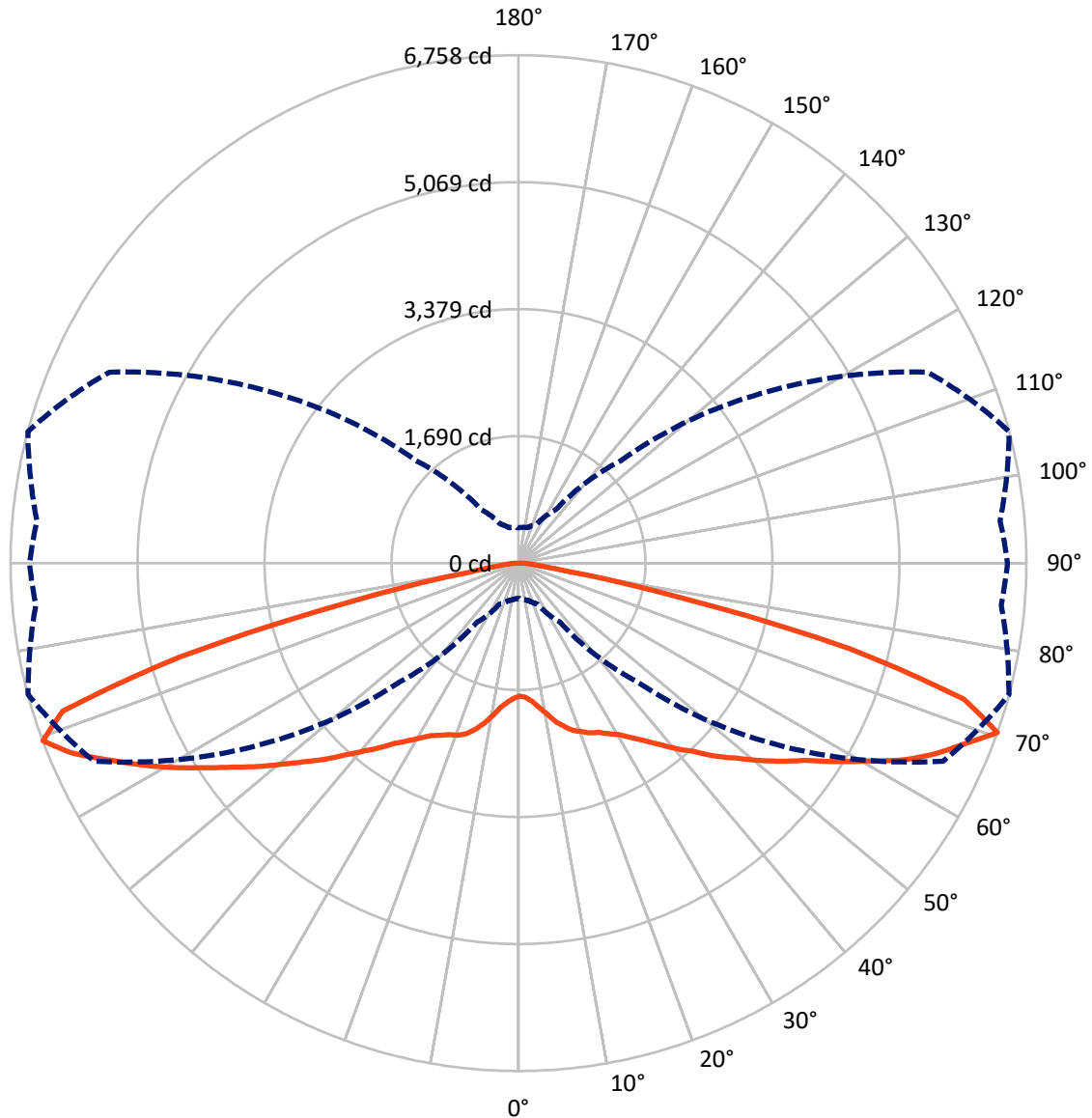
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 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	8581.9	0.0	8581.9
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	8704.8	0.0	8704.8
	% Fixture	50.4	0.0	50.4
Total	Lumens	17286.7	0.0	17286.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.2	1.0
10°-20°	599.9	3.5
20°-30°	1161.6	6.7
30°-40°	1964.8	11.4
40°-50°	3134.4	18.1
50°-60°	4290.3	24.8
60°-70°	4043.9	23.4
70°-80°	1781.5	10.3
80°-90°	134.0	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°	17286.7	100.0
0°-180°	17286.7	100.0

Coefficient of Utilization



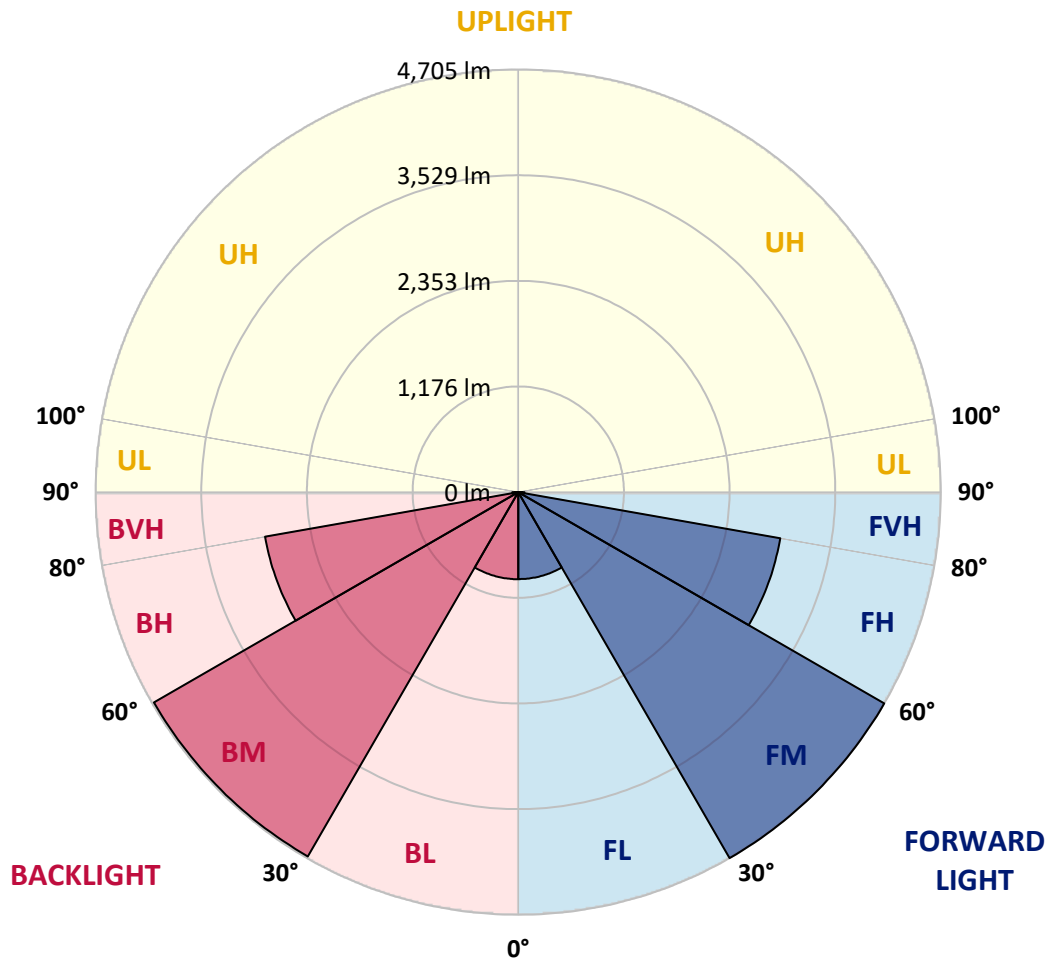
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	968.3	5.6			
FM (30°-60°)	4705.3	27.2			
FH (60°-80°)	2962.8	17.1			G2/5000
FVH (80°-90°)	68.5	0.4			G1/100
BL (0°-30°)	969.4	5.6	B2/1000		
BM (30°-60°)	4684.3	27.1	B3/5000		
BH (60°-80°)	2862.6	16.6	B4/5000		G4/5000
BVH (80°-90°)	65.6	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°	1770.1	1770.1	1770.1	1770.1	1770.1	1770.1	1770.1	1770.1	1770.1	1770.1	1770.1
2.5°	1759.0	1759.0	1757.1	1766.4	1775.7	1779.5	1786.9	1788.8	1800.0	1790.6	1809.3
5°	1753.4	1751.5	1766.4	1788.8	1788.8	1813.0	1827.9	1848.4	1854.0	1865.2	1868.9
7.5°	1792.5	1788.8	1781.3	1805.5	1826.0	1863.3	1883.8	1919.2	1932.2	1947.2	1963.9
10°	1816.7	1816.7	1809.3	1852.1	1870.8	1921.1	1965.8	2001.2	2051.5	2068.3	2070.1
12.5°	1820.4	1826.0	1848.4	1904.3	1956.5	2021.7	2055.2	2122.3	2172.6	2204.3	2215.5
15°	1876.3	1865.2	1889.4	1965.8	2042.2	2099.9	2159.6	2208.0	2280.7	2321.7	2347.8
17.5°	1926.7	1915.5	1960.2	2051.5	2129.8	2219.2	2271.4	2323.5	2375.7	2413.0	2414.8
20°	2006.8	2016.1	2055.2	2154.0	2256.5	2334.7	2394.3	2403.7	2429.7	2483.8	2474.5
22.5°	2105.5	2098.1	2180.1	2288.1	2399.9	2465.2	2498.7	2474.5	2461.4	2519.2	2532.2
25°	2204.3	2226.6	2301.2	2401.8	2536.0	2623.5	2632.9	2565.8	2517.3	2537.8	2532.2
27.5°	2355.2	2358.9	2437.2	2556.5	2692.5	2768.9	2763.3	2668.3	2575.1	2577.0	2580.7
30°	2549.0	2530.4	2616.1	2724.2	2858.3	2927.3	2936.6	2800.5	2675.7	2638.4	2647.8
32.5°	2735.3	2757.7	2832.2	2955.2	3054.0	3093.1	3072.6	2951.5	2789.4	2739.1	2744.6
35°	2973.8	2970.1	3072.6	3176.9	3251.5	3258.9	3242.2	3065.1	2912.3	2847.1	2821.0
37.5°	3229.1	3262.6	3329.7	3415.4	3493.7	3497.4	3406.1	3264.5	3076.3	2968.2	2999.9
40°	3514.2	3551.5	3599.9	3724.7	3782.5	3722.9	3629.7	3437.8	3242.2	3147.1	3162.0
42.5°	3765.7	3782.5	3881.3	4028.5	4056.4	4030.3	3892.4	3659.5	3432.2	3327.9	3335.3
45°	3996.8	4019.1	4147.7	4280.0	4345.2	4300.5	4140.3	3918.5	3653.9	3564.5	3529.1
47.5°	4209.2	4253.9	4378.8	4514.8	4615.4	4619.1	4421.6	4153.3	3873.8	3756.4	3754.6
50°	4352.7	4417.9	4540.9	4695.5	4842.7	4900.5	4703.0	4414.2	4114.2	3989.3	3976.3
52.5°	4430.9	4498.0	4621.0	4861.4	5025.3	5114.8	5021.6	4658.3	4395.5	4265.1	4244.6
55°	4335.9	4380.6	4581.9	4919.1	5172.5	5319.7	5258.2	4995.5	4675.0	4568.8	4587.5
57.5°	3931.6	4024.7	4272.6	4693.7	5168.8	5530.3	5524.7	5314.1	4997.4	4896.8	4900.5
60°	3236.6	3314.8	3620.4	4209.2	4960.1	5616.0	5813.5	5623.5	5358.9	5241.5	5237.8
62.5°	2284.4	2383.2	2737.2	3380.0	4345.2	5496.7	6145.2	6012.9	5712.9	5627.2	5658.9
65°	1278.2	1337.9	1665.8	2247.1	3311.1	4840.9	6204.8	6417.2	6072.5	5942.1	5947.7
67.5°	683.8	706.2	859.0	1179.5	2025.4	3732.2	5603.0	6650.1	6461.9	6236.5	6201.1
70°	469.6	477.0	516.1	603.7	957.7	2232.2	4226.0	6234.6	6754.5	6447.0	6506.7
72.5°	396.9	393.2	402.5	411.8	501.2	998.7	2480.1	4798.0	6376.2	6260.7	6238.3
75°	344.7	342.8	346.6	337.3	348.4	439.7	1097.5	2990.6	4667.6	5209.8	5293.6
77.5°	285.1	286.9	288.8	279.5	275.8	290.7	441.6	1313.6	2297.5	2536.0	2735.3
80°	216.1	219.9	234.8	225.5	210.6	212.4	260.9	439.7	659.6	598.1	616.8
82.5°	147.2	149.1	180.7	169.6	158.4	143.5	167.7	227.3	257.1	195.6	171.4
85°	104.3	102.5	117.4	108.1	100.6	72.7	100.6	128.6	154.7	96.9	87.6
87.5°	24.2	24.2	48.4	39.1	37.3	29.8	39.1	50.3	67.1	42.9	39.1
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°	1770.1	1770.1	1770.1	1770.1	1770.1	1770.1	1770.1	1770.1	1770.1	1770.1
2.5°	1803.7	1786.9	1786.9	1783.2	1768.3	1764.5	1751.5	1755.2	1745.9	1736.6
5°	1867.0	1844.7	1844.7	1813.0	1783.2	1779.5	1764.5	1764.5	1749.6	1753.4
7.5°	1954.6	1934.1	1900.6	1872.6	1831.6	1814.9	1786.9	1783.2	1779.5	1772.0
10°	2059.0	2032.9	1999.3	1941.6	1908.0	1876.3	1848.4	1809.3	1800.0	1801.8
12.5°	2200.6	2159.6	2086.9	2036.6	1993.7	1952.7	1911.8	1854.0	1840.9	1846.5
15°	2301.2	2249.0	2176.3	2157.7	2099.9	2049.6	1982.6	1917.3	1895.0	1889.4
17.5°	2383.2	2340.3	2297.5	2269.5	2222.9	2161.4	2068.3	1993.7	1943.4	1937.8
20°	2450.2	2394.3	2385.0	2401.8	2344.0	2303.0	2189.4	2098.1	2031.0	2003.1
22.5°	2491.2	2455.8	2481.9	2496.8	2493.1	2424.2	2306.8	2200.6	2116.7	2090.6
25°	2536.0	2495.0	2588.1	2638.4	2651.5	2537.8	2446.5	2306.8	2224.8	2208.0
27.5°	2558.3	2573.2	2681.3	2787.5	2778.2	2690.6	2567.6	2442.8	2377.6	2347.8
30°	2623.5	2647.8	2811.7	2931.0	2932.8	2847.1	2754.0	2612.4	2539.7	2526.6
32.5°	2740.9	2770.7	2945.9	3072.6	3094.9	3029.7	2936.6	2849.0	2774.5	2744.6
35°	2830.4	2906.8	3104.3	3219.8	3279.4	3240.3	3188.1	3096.8	3018.6	2992.5
37.5°	2958.9	3065.1	3255.2	3411.7	3478.8	3475.1	3435.9	3337.2	3272.0	3249.6
40°	3143.4	3249.6	3422.9	3629.7	3754.6	3749.0	3726.6	3650.2	3553.3	3542.1
42.5°	3339.0	3426.6	3652.1	3888.7	4067.6	4049.0	3989.3	3899.9	3832.8	3817.9
45°	3529.1	3665.1	3873.8	4177.5	4311.7	4358.3	4287.5	4134.7	4058.3	4049.0
47.5°	3767.6	3875.7	4136.5	4408.6	4608.0	4615.4	4494.3	4352.7	4212.9	4242.7
50°	3980.0	4123.5	4388.1	4686.2	4924.7	4839.0	4684.3	4507.3	4406.7	4367.6
52.5°	4207.3	4382.5	4689.9	4993.7	5126.0	5040.2	4788.7	4591.2	4438.4	4421.6
55°	4539.0	4630.3	5032.8	5265.7	5308.6	5127.8	4757.0	4477.5	4280.0	4231.6
57.5°	4876.3	4982.5	5334.6	5535.9	5491.2	5079.4	4552.1	4119.8	3860.8	3791.8
60°	5217.3	5347.7	5644.0	5828.4	5597.4	4745.8	3972.6	3415.4	3113.6	3052.1
62.5°	5597.4	5766.9	6031.5	6096.7	5282.5	4086.2	3152.7	2465.2	2159.6	2057.1
65°	5934.6	6107.9	6434.0	6040.8	4613.5	3048.4	2038.5	1408.7	1183.2	1101.2
67.5°	6212.3	6407.9	6568.2	5345.8	3378.2	1785.0	1062.1	741.6	657.7	627.9
70°	6432.1	6758.2	6009.2	3929.7	1930.4	870.2	573.9	488.2	477.0	469.6
72.5°	6240.2	6197.4	4486.8	2267.6	845.9	478.9	415.5	402.5	400.6	402.5
75°	5103.6	4552.1	2683.2	985.7	424.8	346.6	344.7	339.1	348.4	348.4
77.5°	2476.3	2165.2	1121.7	423.0	279.5	272.0	281.4	281.4	281.4	281.4
80°	573.9	635.4	400.6	257.1	203.1	203.1	223.6	225.5	216.1	212.4
82.5°	195.6	260.9	219.9	162.1	134.2	150.9	169.6	173.3	143.5	145.3
85°	96.9	152.8	119.3	93.2	68.9	93.2	109.9	115.5	98.8	95.0
87.5°	44.7	67.1	44.7	31.7	24.2	33.5	31.7	26.1	14.9	14.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)