

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: P481161

Luminaire Tested: **IFLD-S-SA3C-727-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481161
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-727-U-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (48) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

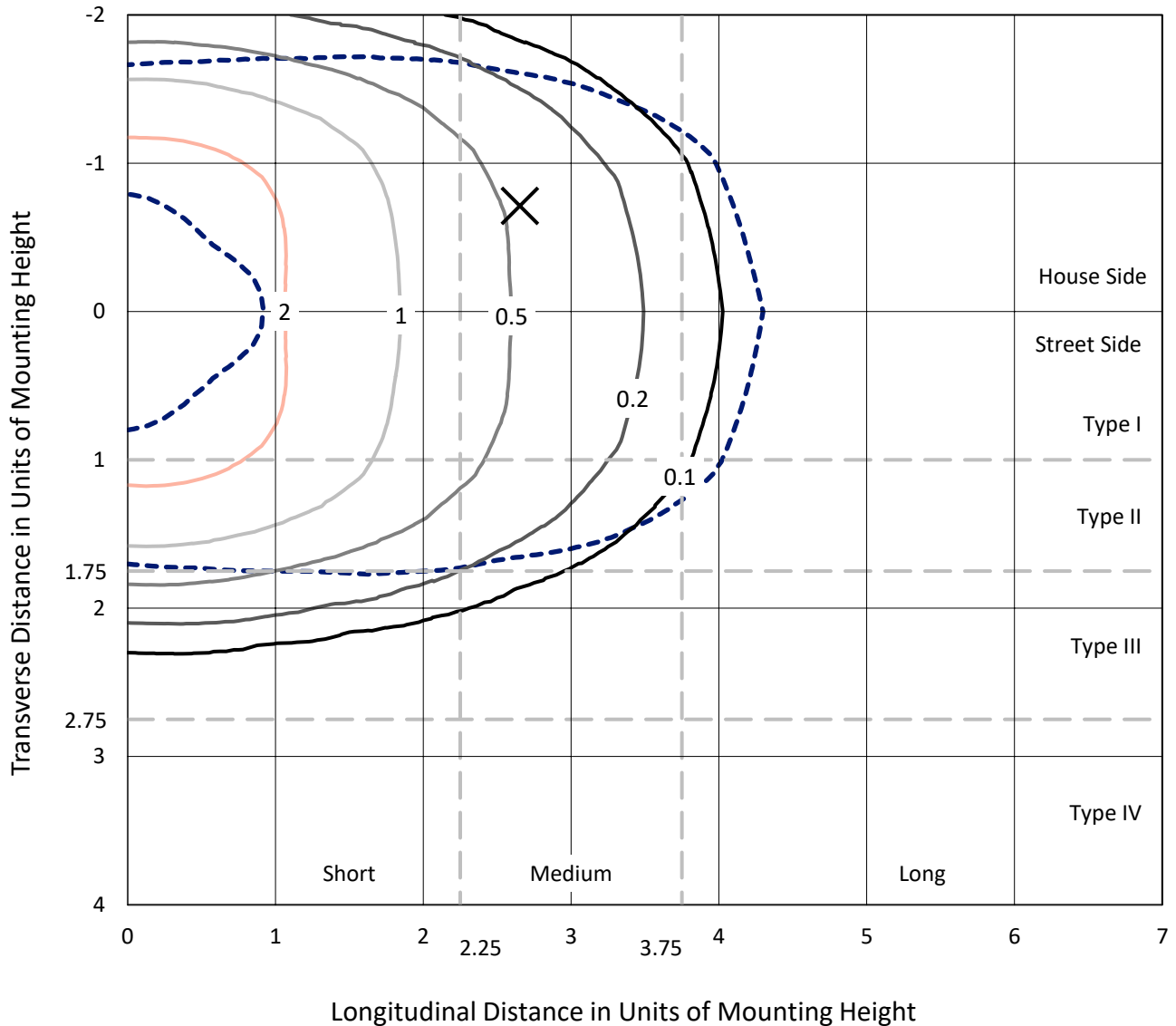
Lumens per Lamp: N/A
Luminaire Lumens: 18246.4 lumens
Efficiency: N/A
Efficacy: 113.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

Input Watts (W): 160.8
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

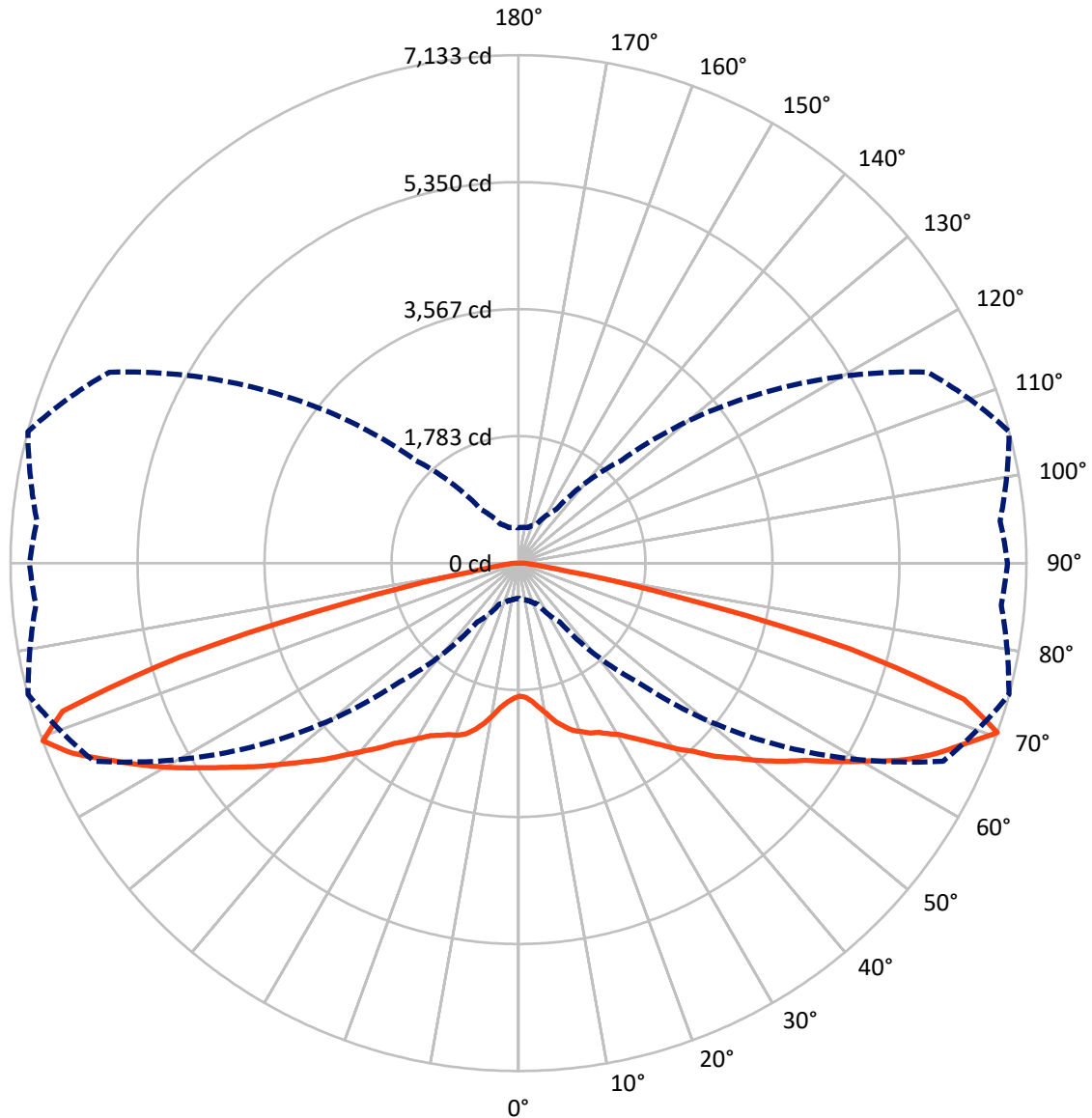
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 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	9058.3	0.0	9058.3
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	9188.1	0.0	9188.1
	% Fixture	50.4	0.0	50.4
Total	Lumens	18246.4	0.0	18246.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.0	1.0
10°-20°	633.2	3.5
20°-30°	1226.1	6.7
30°-40°	2073.9	11.4
40°-50°	3308.4	18.1
50°-60°	4528.5	24.8
60°-70°	4268.4	23.4
70°-80°	1880.4	10.3
80°-90°	141.5	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°	18246.4	100.0
0°-180°	18246.4	100.0

Coefficient of Utilization



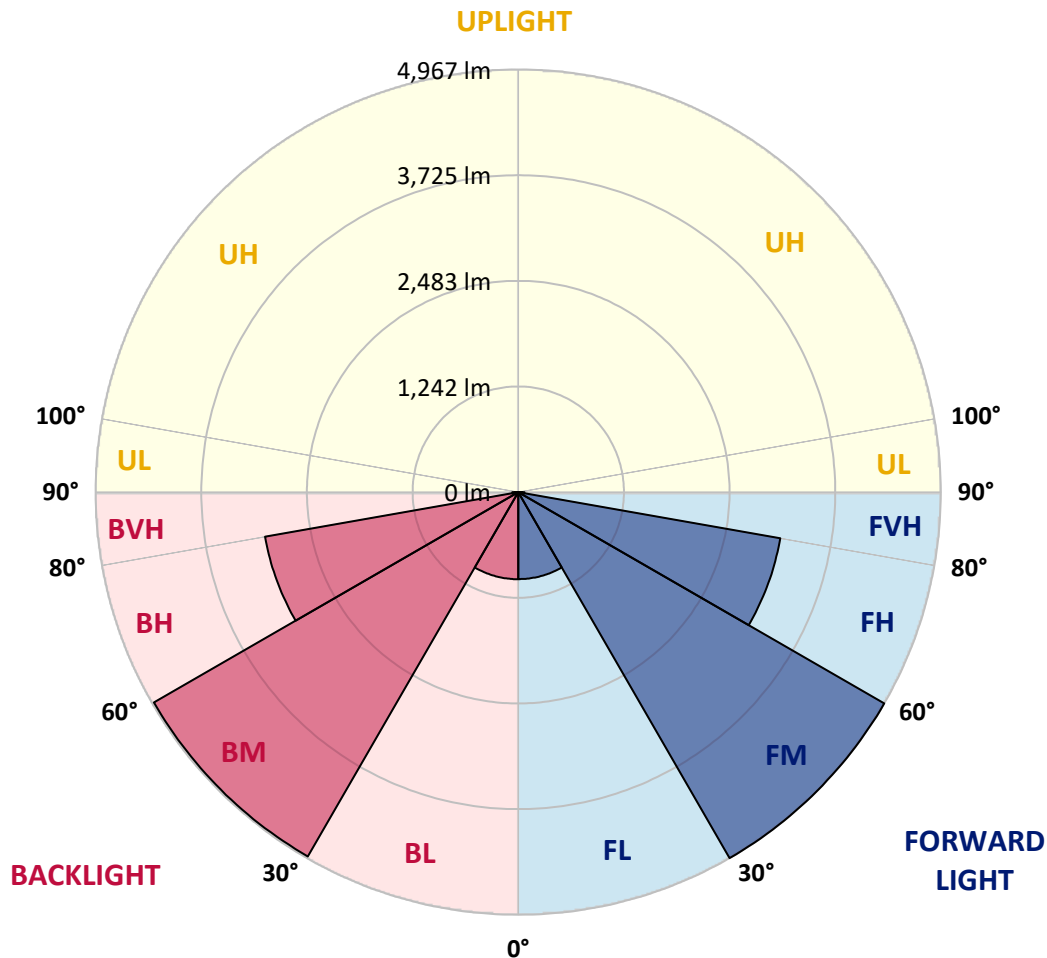
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1022.1	5.6			
FM (30°-60°)	4966.5	27.2			
FH (60°-80°)	3127.2	17.1			G2/5000
FVH (80°-90°)	72.3	0.4			G1/100
BL (0°-30°)	1023.2	5.6	B3/2500		
BM (30°-60°)	4944.3	27.1	B3/5000		
BH (60°-80°)	3021.6	16.6	B4/5000		G4/5000
BVH (80°-90°)	69.2	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°	1868.4	1868.4	1868.4	1868.4	1868.4	1868.4	1868.4	1868.4	1868.4	1868.4	1868.4
2.5°	1856.6	1856.6	1854.6	1864.5	1874.3	1878.2	1886.1	1888.1	1899.9	1890.0	1909.7
5°	1850.7	1848.7	1864.5	1888.1	1888.1	1913.6	1929.4	1951.0	1956.9	1968.7	1972.7
7.5°	1892.0	1888.1	1880.2	1905.8	1927.4	1966.8	1988.4	2025.8	2039.5	2055.3	2073.0
10°	1917.6	1917.6	1909.7	1955.0	1974.6	2027.7	2074.9	2112.3	2165.4	2183.1	2185.1
12.5°	1921.5	1927.4	1951.0	2010.0	2065.1	2133.9	2169.3	2240.1	2293.2	2326.7	2338.5
15°	1980.5	1968.7	1994.3	2074.9	2155.6	2216.5	2279.5	2330.6	2407.3	2450.6	2478.1
17.5°	2033.6	2021.8	2069.0	2165.4	2248.0	2342.4	2397.5	2452.5	2507.6	2546.9	2548.9
20°	2118.2	2128.0	2169.3	2273.6	2381.7	2464.3	2527.3	2537.1	2564.6	2621.7	2611.8
22.5°	2222.4	2214.6	2301.1	2415.2	2533.2	2602.0	2637.4	2611.8	2598.1	2659.0	2672.8
25°	2326.7	2350.3	2428.9	2535.1	2676.7	2769.2	2779.0	2708.2	2657.1	2678.7	2672.8
27.5°	2486.0	2489.9	2572.5	2698.4	2842.0	2922.6	2916.7	2816.4	2718.1	2720.0	2724.0
30°	2690.5	2670.8	2761.3	2875.4	3017.0	3089.8	3099.6	2956.0	2824.3	2784.9	2794.8
32.5°	2887.2	2910.8	2989.5	3119.3	3223.5	3264.8	3243.2	3115.3	2944.2	2891.1	2897.0
35°	3138.9	3135.0	3243.2	3353.3	3432.0	3439.8	3422.1	3235.3	3074.0	3005.2	2977.7
37.5°	3408.4	3443.8	3514.6	3605.1	3687.7	3691.6	3595.2	3445.7	3247.1	3133.0	3166.5
40°	3709.3	3748.6	3799.8	3931.5	3992.5	3929.6	3831.2	3628.7	3422.1	3321.8	3337.6
42.5°	3974.8	3992.5	4096.7	4252.1	4281.6	4254.1	4108.5	3862.7	3622.8	3512.6	3520.5
45°	4218.7	4242.3	4378.0	4517.6	4586.5	4539.3	4370.1	4136.1	3856.8	3762.4	3725.0
47.5°	4442.9	4490.1	4621.9	4765.4	4871.6	4875.6	4667.1	4383.9	4088.9	3965.0	3963.0
50°	4594.3	4663.2	4793.0	4956.2	5111.6	5172.6	4964.1	4659.2	4342.6	4210.8	4197.0
52.5°	4676.9	4747.7	4877.5	5131.3	5304.3	5398.7	5300.4	4916.9	4639.6	4501.9	4480.3
55°	4576.6	4623.8	4836.2	5192.2	5459.7	5615.1	5550.2	5272.9	4934.6	4822.5	4842.1
57.5°	4149.8	4248.2	4509.8	4954.2	5455.8	5837.3	5831.4	5609.2	5274.8	5168.6	5172.6
60°	3416.2	3498.9	3821.4	4442.9	5235.5	5927.8	6136.3	5935.7	5656.4	5532.5	5528.5
62.5°	2411.2	2515.5	2889.2	3567.7	4586.5	5801.9	6486.3	6346.7	6030.1	5939.6	5973.0
65°	1349.2	1412.1	1758.3	2371.9	3494.9	5109.6	6549.3	6773.5	6409.6	6272.0	6277.9
67.5°	721.8	745.4	906.7	1245.0	2137.9	3939.4	5914.0	7019.3	6820.7	6582.7	6545.3
70°	495.6	503.5	544.8	637.2	1010.9	2356.2	4460.6	6580.8	7129.5	6805.0	6867.9
72.5°	418.9	415.0	424.8	434.7	529.1	1054.2	2617.7	5064.4	6730.2	6608.3	6584.7
75°	363.8	361.9	365.8	356.0	367.8	464.2	1158.4	3156.6	4926.7	5499.0	5587.5
77.5°	300.9	302.9	304.8	295.0	291.1	306.8	466.1	1386.6	2425.0	2676.7	2887.2
80°	228.1	232.1	247.8	238.0	222.2	224.2	275.3	464.2	696.2	631.3	651.0
82.5°	155.4	157.3	190.8	179.0	167.2	151.4	177.0	239.9	271.4	206.5	180.9
85°	110.1	108.2	123.9	114.1	106.2	76.7	106.2	135.7	163.2	102.3	92.4
87.5°	25.6	25.6	51.1	41.3	39.3	31.5	41.3	53.1	70.8	45.2	41.3
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°	1868.4	1868.4	1868.4	1868.4	1868.4	1868.4	1868.4	1868.4	1868.4	1868.4
2.5°	1903.8	1886.1	1886.1	1882.2	1866.4	1862.5	1848.7	1852.7	1842.8	1833.0
5°	1970.7	1947.1	1947.1	1913.6	1882.2	1878.2	1862.5	1862.5	1846.8	1850.7
7.5°	2063.1	2041.5	2006.1	1976.6	1933.3	1915.6	1886.1	1882.2	1878.2	1870.4
10°	2173.3	2145.7	2110.3	2049.4	2014.0	1980.5	1951.0	1909.7	1899.9	1901.8
12.5°	2322.7	2279.5	2202.8	2149.7	2104.4	2061.2	2017.9	1956.9	1943.2	1949.1
15°	2428.9	2373.9	2297.2	2277.5	2216.5	2163.4	2092.6	2023.8	2000.2	1994.3
17.5°	2515.5	2470.2	2425.0	2395.5	2346.3	2281.4	2183.1	2104.4	2051.3	2045.4
20°	2586.3	2527.3	2517.4	2535.1	2474.2	2430.9	2310.9	2214.6	2143.8	2114.3
22.5°	2629.5	2592.2	2619.7	2635.4	2631.5	2558.7	2434.8	2322.7	2234.2	2206.7
25°	2676.7	2633.5	2731.8	2784.9	2798.7	2678.7	2582.3	2434.8	2348.3	2330.6
27.5°	2700.4	2716.1	2830.2	2942.3	2932.4	2840.0	2710.2	2578.4	2509.6	2478.1
30°	2769.2	2794.8	2967.8	3093.7	3095.7	3005.2	2906.9	2757.4	2680.7	2666.9
32.5°	2893.1	2924.6	3109.4	3243.2	3266.8	3197.9	3099.6	3007.2	2928.5	2897.0
35°	2987.5	3068.1	3276.6	3398.5	3461.5	3420.2	3365.1	3268.7	3186.1	3158.6
37.5°	3123.2	3235.3	3435.9	3601.1	3671.9	3668.0	3626.7	3522.5	3453.6	3430.0
40°	3317.9	3430.0	3612.9	3831.2	3963.0	3957.1	3933.5	3852.9	3750.6	3738.8
42.5°	3524.4	3616.9	3854.8	4104.6	4293.4	4273.8	4210.8	4116.4	4045.6	4029.9
45°	3725.0	3868.6	4088.9	4409.5	4551.1	4600.2	4525.5	4364.2	4283.6	4273.8
47.5°	3976.8	4090.8	4366.2	4653.3	4863.8	4871.6	4743.8	4594.3	4446.8	4478.3
50°	4201.0	4352.4	4631.7	4946.4	5198.1	5107.7	4944.4	4757.6	4651.4	4610.1
52.5°	4440.9	4625.8	4950.3	5270.9	5410.5	5320.1	5054.6	4846.1	4684.8	4667.1
55°	4791.0	4887.4	5312.2	5558.0	5603.3	5412.5	5021.1	4726.1	4517.6	4466.5
57.5°	5147.0	5259.1	5630.8	5843.2	5796.0	5361.4	4804.8	4348.5	4075.1	4002.3
60°	5506.9	5644.6	5957.3	6152.0	5908.1	5009.3	4193.1	3605.1	3286.4	3221.5
62.5°	5908.1	6087.1	6366.4	6435.2	5575.7	4313.1	3327.7	2602.0	2279.5	2171.3
65°	6264.1	6447.0	6791.2	6376.2	4869.7	3217.6	2151.6	1486.9	1248.9	1162.4
67.5°	6557.2	6763.7	6932.8	5642.6	3565.7	1884.1	1121.0	782.8	694.3	662.8
70°	6789.2	7133.4	6342.8	4147.9	2037.6	918.5	605.8	515.3	503.5	495.6
72.5°	6586.7	6541.4	4735.9	2393.5	892.9	505.5	438.6	424.8	422.9	424.8
75°	5386.9	4804.8	2832.1	1040.4	448.4	365.8	363.8	357.9	367.8	367.8
77.5°	2613.8	2285.4	1184.0	446.5	295.0	287.1	297.0	297.0	297.0	297.0
80°	605.8	670.7	422.9	271.4	214.4	214.4	236.0	238.0	228.1	224.2
82.5°	206.5	275.3	232.1	171.1	141.6	159.3	179.0	182.9	151.4	153.4
85°	102.3	161.3	125.9	98.3	72.8	98.3	116.0	121.9	104.2	100.3
87.5°	47.2	70.8	47.2	33.4	25.6	35.4	33.4	27.5	15.7	15.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)