

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: P481158

Luminaire Tested: **IFLD-S-SA2E-727-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481158
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2E-727-U-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (32) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

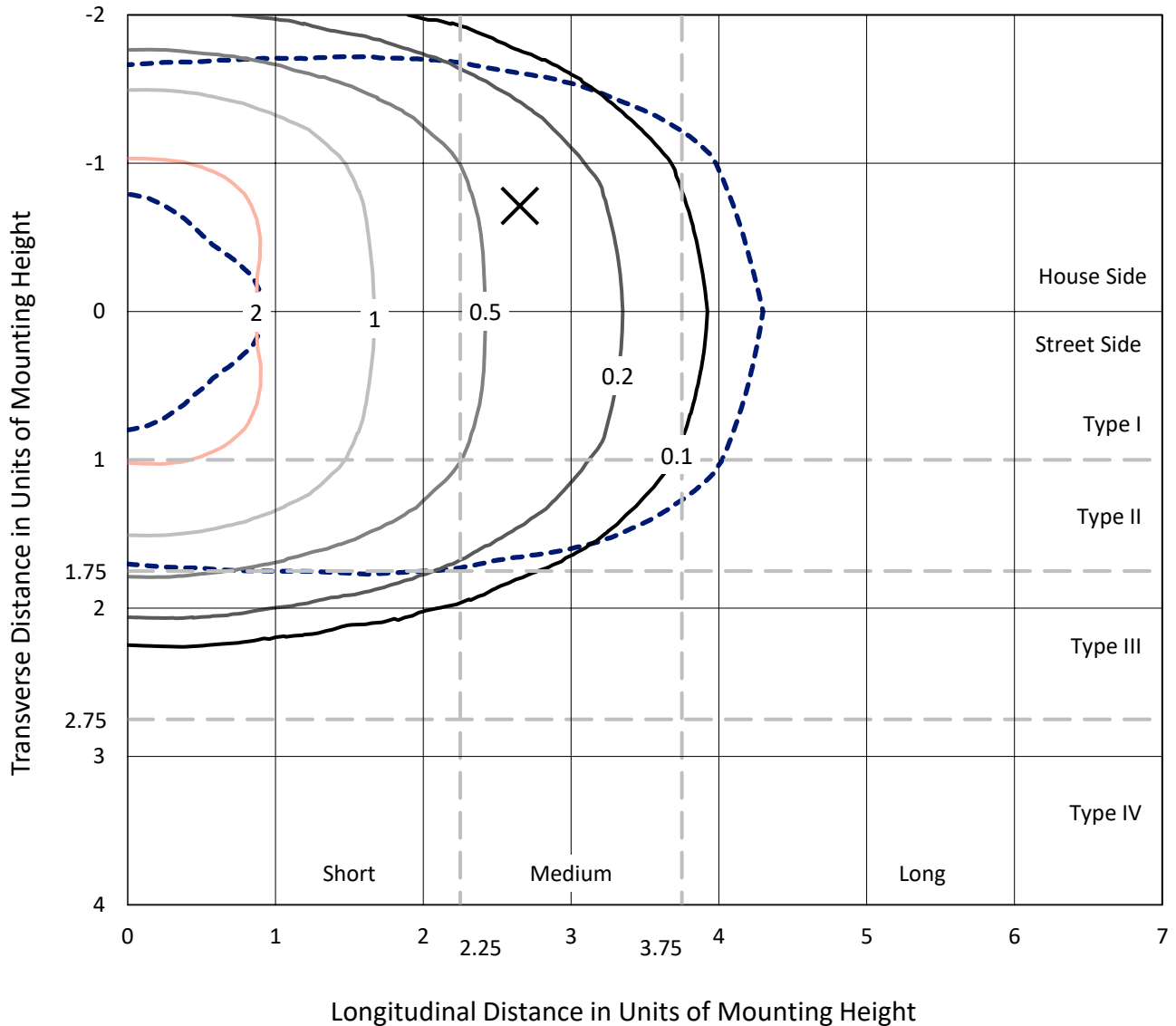
Lumens per Lamp: N/A
Luminaire Lumens: 15591 lumens
Efficiency: N/A
Efficacy: 99.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

Input Watts (W): 156.2
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

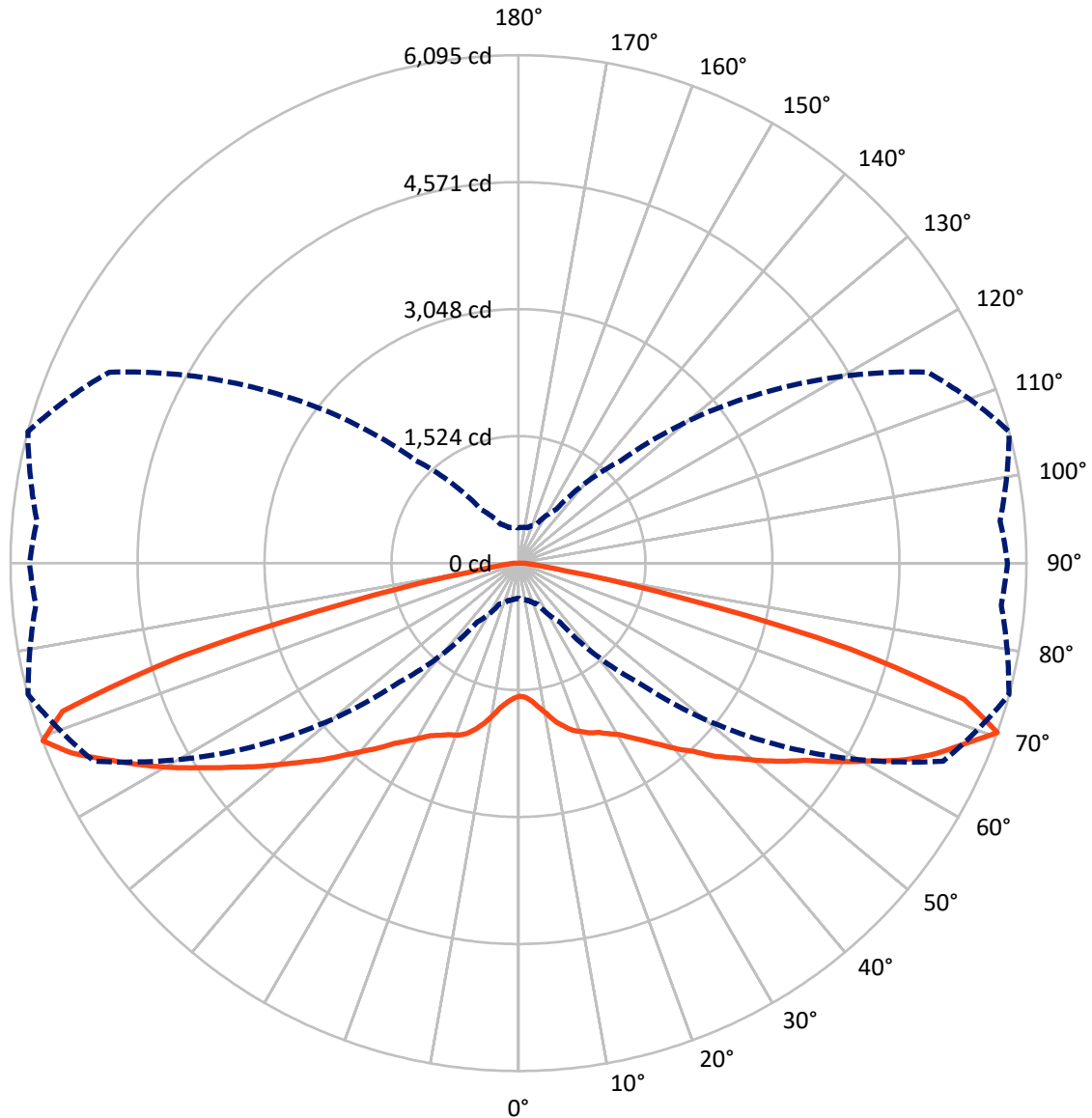
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 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	7740.0	0.0	7740.0
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	7851.0	0.0	7851.0
	% Fixture	50.4	0.0	50.4
Total	Lumens	15591.0	0.0	15591.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.9	1.0
10°-20°	541.1	3.5
20°-30°	1047.7	6.7
30°-40°	1772.1	11.4
40°-50°	2827.0	18.1
50°-60°	3869.5	24.8
60°-70°	3647.3	23.4
70°-80°	1606.7	10.3
80°-90°	120.9	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°	15591.0	100.0
0°-180°	15591.0	100.0

Coefficient of Utilization

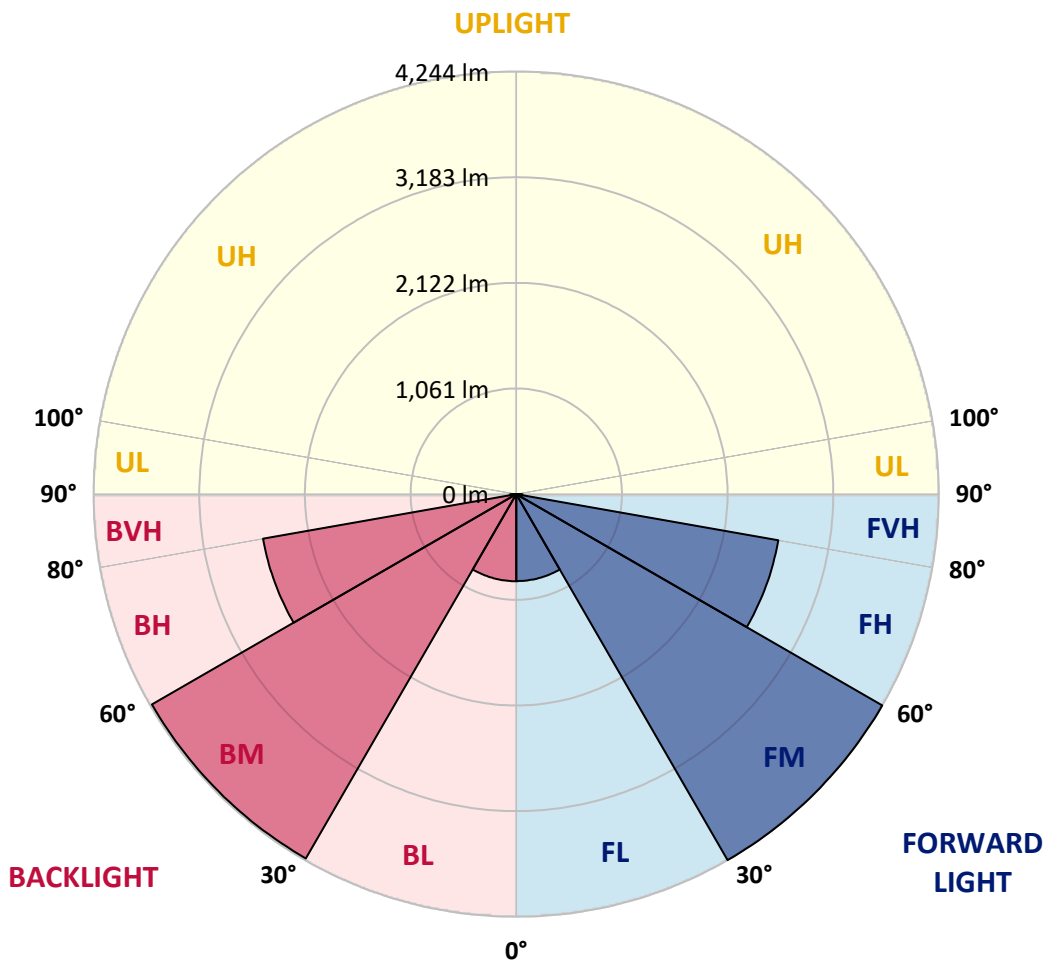


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	873.3	5.6			
FM (30°-60°)	4243.7	27.2			
FH (60°-80°)	2672.1	17.1			G2/5000
FVH (80°-90°)	61.8	0.4			G1/100
BL (0°-30°)	874.3	5.6	B2/1000		
BM (30°-60°)	4224.8	27.1	B3/5000		
BH (60°-80°)	2581.8	16.6	B4/5000		G4/5000
BVH (80°-90°)	59.1	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°	1596.5	1596.5	1596.5	1596.5	1596.5	1596.5	1596.5	1596.5	1596.5	1596.5	1596.5
2.5°	1586.4	1586.4	1584.7	1593.1	1601.5	1604.9	1611.6	1613.3	1623.4	1615.0	1631.8
5°	1581.4	1579.7	1593.1	1613.3	1613.3	1635.2	1648.6	1667.1	1672.1	1682.2	1685.6
7.5°	1616.7	1613.3	1606.6	1628.4	1646.9	1680.5	1699.0	1730.9	1742.7	1756.2	1771.3
10°	1638.5	1638.5	1631.8	1670.4	1687.3	1732.6	1773.0	1804.9	1850.3	1865.4	1867.1
12.5°	1641.9	1646.9	1667.1	1717.5	1764.6	1823.4	1853.6	1914.1	1959.5	1988.1	1998.2
15°	1692.3	1682.2	1704.1	1773.0	1841.9	1894.0	1947.7	1991.4	2057.0	2093.9	2117.5
17.5°	1737.7	1727.6	1767.9	1850.3	1920.8	2001.5	2048.6	2095.6	2142.7	2176.3	2178.0
20°	1809.9	1818.3	1853.6	1942.7	2035.1	2105.7	2159.5	2167.9	2191.4	2240.1	2231.7
22.5°	1899.0	1892.3	1966.2	2063.7	2164.5	2223.3	2253.6	2231.7	2220.0	2272.1	2283.8
25°	1988.1	2008.2	2075.5	2166.2	2287.2	2366.2	2374.6	2314.1	2270.4	2288.9	2283.8
27.5°	2124.2	2127.6	2198.1	2305.7	2428.4	2497.3	2492.2	2406.5	2322.5	2324.2	2327.5
30°	2299.0	2282.2	2359.5	2456.9	2577.9	2640.1	2648.5	2525.8	2413.2	2379.6	2388.0
32.5°	2467.0	2487.2	2554.4	2665.3	2754.4	2789.7	2771.2	2662.0	2515.8	2470.4	2475.4
35°	2682.1	2678.8	2771.2	2865.3	2932.5	2939.2	2924.1	2764.5	2626.7	2567.9	2544.3
37.5°	2912.4	2942.6	3003.1	3080.4	3151.0	3154.4	3072.0	2944.3	2774.6	2677.1	2705.7
40°	3169.5	3203.1	3246.8	3359.4	3411.5	3357.7	3273.7	3100.6	2924.1	2838.4	2851.9
42.5°	3396.4	3411.5	3500.5	3633.3	3658.5	3635.0	3510.6	3300.6	3095.5	3001.4	3008.1
45°	3604.7	3624.9	3740.9	3860.2	3919.0	3878.7	3734.1	3534.2	3295.5	3214.9	3182.9
47.5°	3796.3	3836.7	3949.2	4071.9	4162.7	4166.0	3987.9	3745.9	3493.8	3387.9	3386.3
50°	3925.7	3984.5	4095.5	4234.9	4367.7	4419.8	4241.7	3981.2	3710.6	3598.0	3586.3
52.5°	3996.3	4056.8	4167.7	4384.5	4532.4	4613.1	4529.0	4201.3	3964.4	3846.7	3828.2
55°	3910.6	3950.9	4132.4	4436.6	4665.2	4797.9	4742.5	4505.5	4216.5	4120.7	4137.5
57.5°	3545.9	3629.9	3853.5	4233.3	4661.8	4987.8	4982.8	4792.9	4507.2	4416.4	4419.8
60°	2919.1	2989.7	3265.3	3796.3	4473.6	5065.1	5243.3	5071.8	4833.2	4727.3	4724.0
62.5°	2060.3	2149.4	2468.7	3048.5	3919.0	4957.6	5542.4	5423.1	5152.5	5075.2	5103.8
65°	1152.8	1206.6	1502.4	2026.7	2986.3	4366.0	5596.2	5787.7	5476.8	5359.2	5364.3
67.5°	616.8	636.9	774.7	1063.8	1826.7	3366.1	5053.4	5997.8	5828.1	5624.7	5592.8
70°	423.5	430.2	465.5	544.5	863.8	2013.3	3811.4	5623.1	6091.9	5814.6	5868.4
72.5°	358.0	354.6	363.0	371.4	452.1	900.8	2236.8	4327.4	5750.8	5646.6	5626.4
75°	310.9	309.2	312.6	304.2	314.3	396.6	989.8	2697.3	4209.7	4698.8	4774.4
77.5°	257.1	258.8	260.5	252.1	248.7	262.2	398.3	1184.8	2072.1	2287.2	2467.0
80°	194.9	198.3	211.7	203.3	189.9	191.6	235.3	396.6	594.9	539.5	556.3
82.5°	132.8	134.4	163.0	152.9	142.8	129.4	151.2	205.0	231.9	176.5	154.6
85°	94.1	92.4	105.9	97.5	90.7	65.5	90.7	116.0	139.5	87.4	79.0
87.5°	21.8	21.8	43.7	35.3	33.6	26.9	35.3	45.4	60.5	38.7	35.3
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°	1596.5	1596.5	1596.5	1596.5	1596.5	1596.5	1596.5	1596.5	1596.5	1596.5
2.5°	1626.8	1611.6	1611.6	1608.3	1594.8	1591.5	1579.7	1583.1	1574.7	1566.3
5°	1683.9	1663.7	1663.7	1635.2	1608.3	1604.9	1591.5	1591.5	1578.0	1581.4
7.5°	1762.9	1744.4	1714.1	1688.9	1652.0	1636.8	1611.6	1608.3	1604.9	1598.2
10°	1857.0	1833.5	1803.2	1751.1	1720.9	1692.3	1667.1	1631.8	1623.4	1625.1
12.5°	1984.7	1947.7	1882.2	1836.8	1798.2	1761.2	1724.2	1672.1	1660.4	1665.4
15°	2075.5	2028.4	1962.9	1946.1	1894.0	1848.6	1788.1	1729.3	1709.1	1704.1
17.5°	2149.4	2110.7	2072.1	2046.9	2004.9	1949.4	1865.4	1798.2	1752.8	1747.8
20°	2209.9	2159.5	2151.1	2166.2	2114.1	2077.1	1974.6	1892.3	1831.8	1806.6
22.5°	2246.9	2214.9	2238.5	2251.9	2248.5	2186.4	2080.5	1984.7	1909.1	1885.6
25°	2287.2	2250.2	2334.3	2379.6	2391.4	2288.9	2206.5	2080.5	2006.6	1991.4
27.5°	2307.4	2320.8	2418.3	2514.1	2505.7	2426.7	2315.8	2203.2	2144.4	2117.5
30°	2366.2	2388.0	2535.9	2643.5	2645.2	2567.9	2483.8	2356.1	2290.6	2278.8
32.5°	2472.1	2498.9	2656.9	2771.2	2791.4	2732.5	2648.5	2569.5	2502.3	2475.4
35°	2552.7	2621.6	2799.8	2904.0	2957.7	2922.4	2875.4	2793.0	2722.5	2698.9
37.5°	2668.7	2764.5	2935.9	3077.1	3137.6	3134.2	3098.9	3009.8	2951.0	2930.8
40°	2835.1	2930.8	3087.1	3273.7	3386.3	3381.2	3361.1	3292.2	3204.8	3194.7
42.5°	3011.5	3090.5	3293.8	3507.3	3668.6	3651.8	3598.0	3517.4	3456.9	3443.4
45°	3182.9	3305.6	3493.8	3767.7	3888.7	3930.8	3866.9	3729.1	3660.2	3651.8
47.5°	3398.0	3495.5	3730.8	3976.1	4156.0	4162.7	4053.4	3925.7	3799.7	3826.6
50°	3589.6	3719.0	3957.6	4226.5	4441.6	4364.3	4224.9	4065.2	3974.5	3939.2
52.5°	3794.6	3952.6	4229.9	4503.8	4623.1	4545.8	4319.0	4140.8	4003.0	3987.9
55°	4093.8	4176.1	4539.1	4749.2	4787.8	4624.8	4290.4	4038.3	3860.2	3816.5
57.5°	4397.9	4493.7	4811.4	4992.9	4952.5	4581.1	4105.5	3715.7	3482.1	3419.9
60°	4705.5	4823.1	5090.3	5256.7	5048.3	4280.3	3582.9	3080.4	2808.2	2752.7
62.5°	5048.3	5201.2	5439.9	5498.7	4764.3	3685.4	2843.5	2223.3	1947.7	1855.3
65°	5352.5	5508.8	5802.9	5448.3	4161.0	2749.3	1838.5	1270.5	1067.1	993.2
67.5°	5602.9	5779.3	5923.9	4821.4	3046.8	1609.9	957.9	668.9	593.2	566.3
70°	5801.2	6095.3	5419.7	3544.2	1741.0	784.8	517.6	440.3	430.2	423.5
72.5°	5628.1	5589.4	4046.7	2045.2	763.0	431.9	374.8	363.0	361.3	363.0
75°	4603.0	4105.5	2420.0	889.0	383.2	312.6	310.9	305.9	314.3	314.3
77.5°	2233.4	1952.8	1011.7	381.5	252.1	245.4	253.8	253.8	253.8	253.8
80°	517.6	573.1	361.3	231.9	183.2	183.2	201.7	203.3	194.9	191.6
82.5°	176.5	235.3	198.3	146.2	121.0	136.1	152.9	156.3	129.4	131.1
85°	87.4	137.8	107.6	84.0	62.2	84.0	99.2	104.2	89.1	85.7
87.5°	40.3	60.5	40.3	28.6	21.8	30.2	28.6	23.5	13.4	13.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)