

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: P481312

Luminaire Tested: **IFLD-S-SA2C-750-U-RW**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P481312
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-750-U-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (32) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

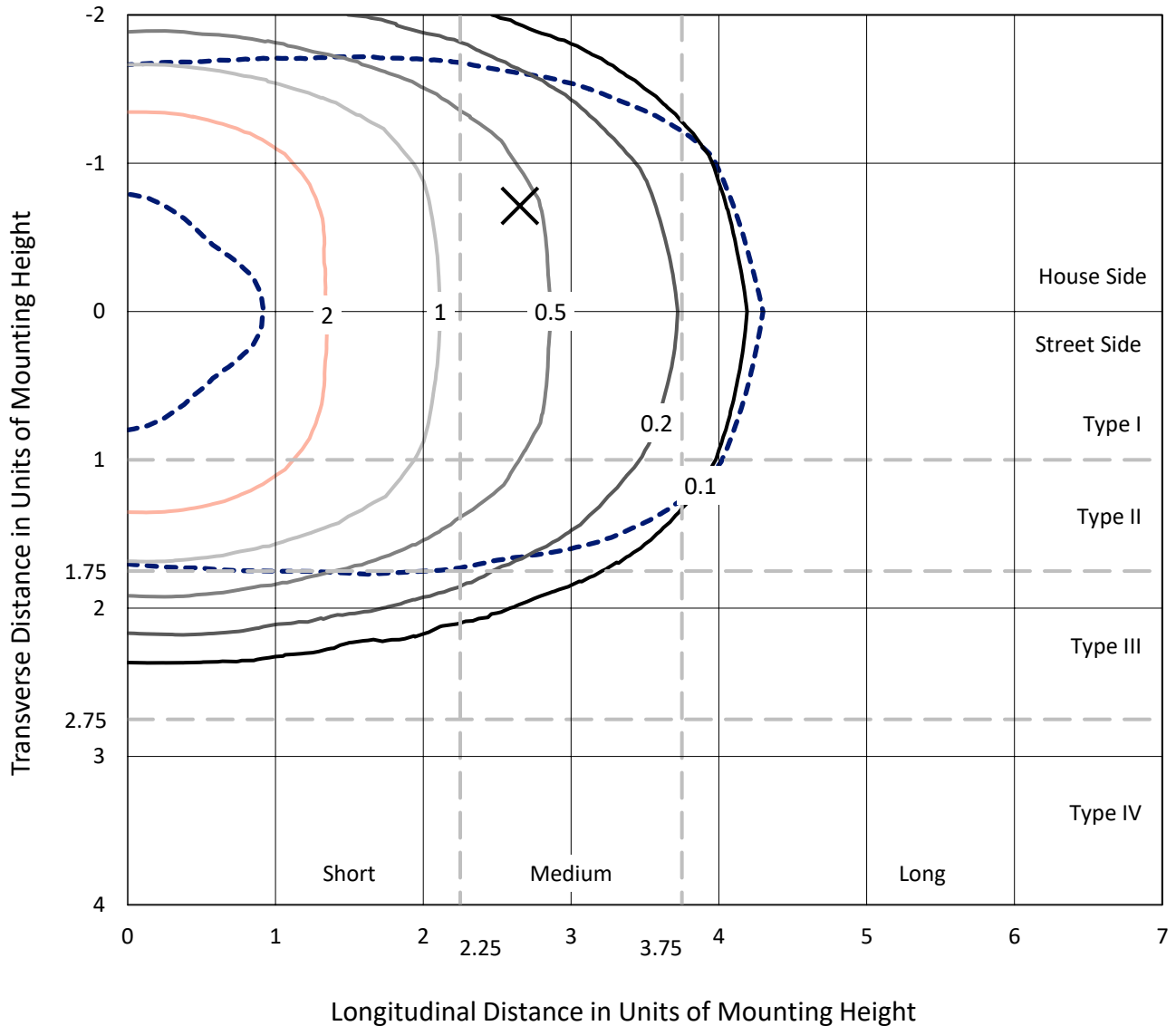
Lumens per Lamp: N/A
Luminaire Lumens: 14975.5 lumens
Efficiency: N/A
Efficacy: 138.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 108.2
Input Voltage (V): 120
Input Current (A_{in}): 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

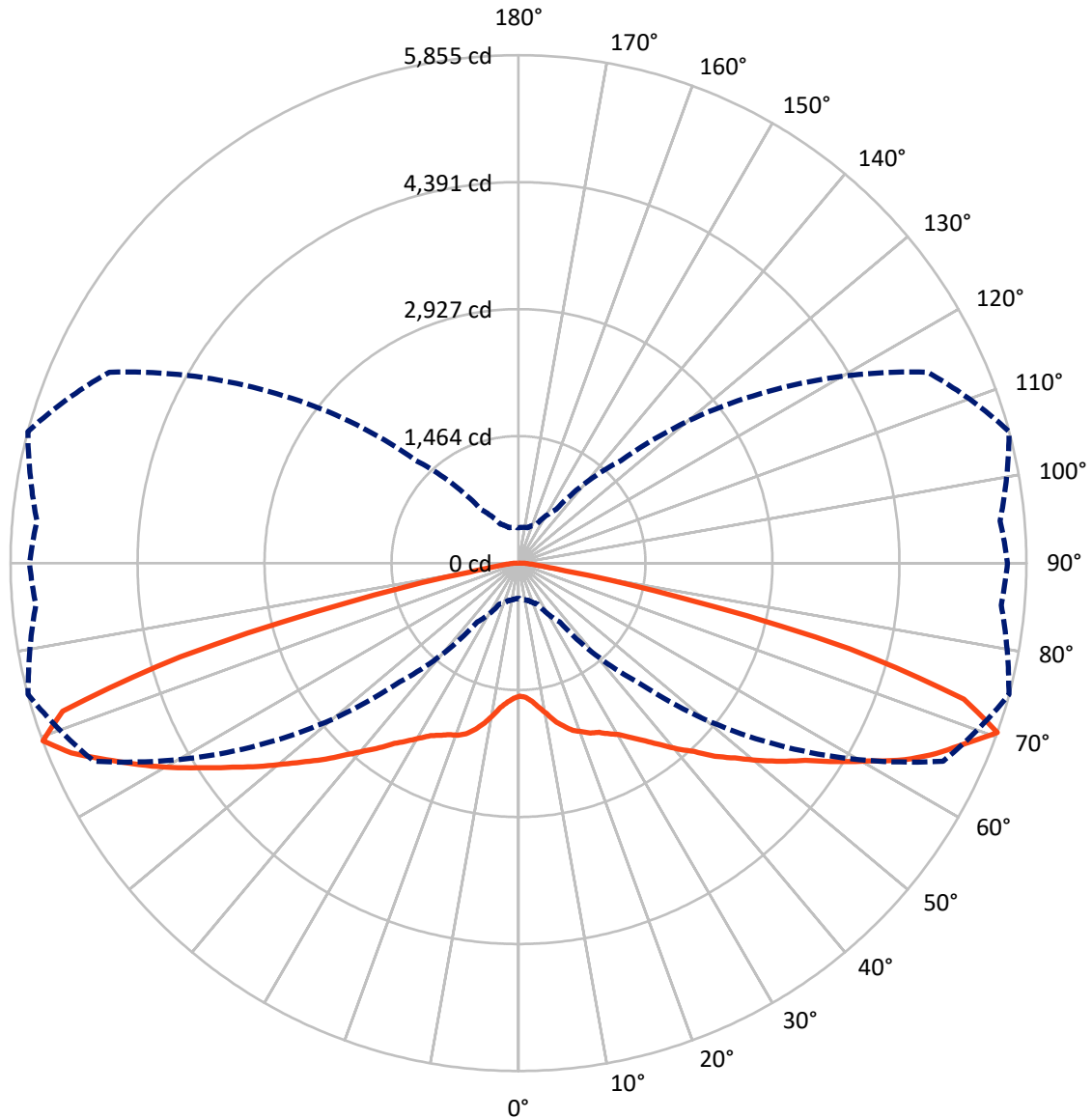
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.5 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	7434.5	0.0	7434.5
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	7541.0	0.0	7541.0
	% Fixture	50.4	0.0	50.4
Total	Lumens	14975.5	0.0	14975.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.6	1.0
10°-20°	519.7	3.5
20°-30°	1006.3	6.7
30°-40°	1702.1	11.4
40°-50°	2715.4	18.1
50°-60°	3716.7	24.8
60°-70°	3503.3	23.4
70°-80°	1543.3	10.3
80°-90°	116.1	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°	14975.5	100.0
0°-180°	14975.5	100.0

Coefficient of Utilization



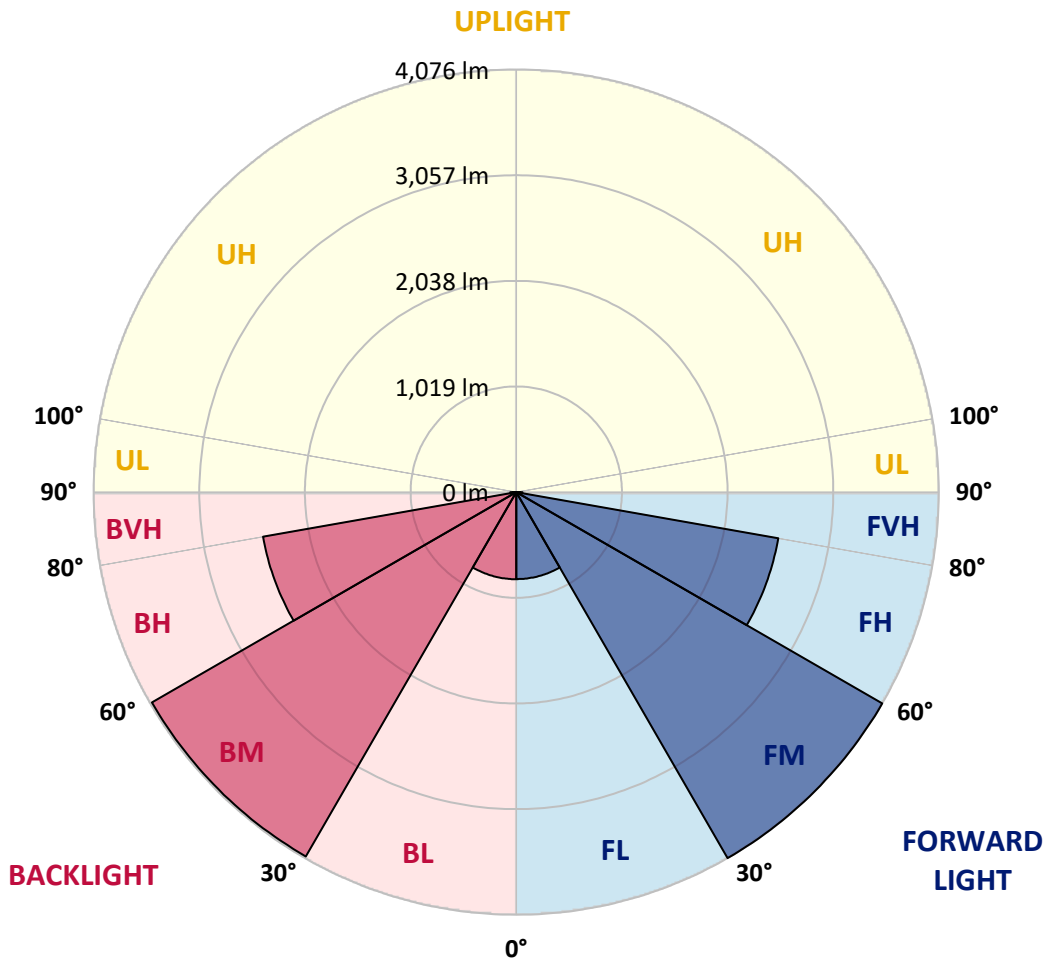
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	838.9	5.6			
FM (30°-60°)	4076.2	27.2			
FH (60°-80°)	2566.6	17.1			G2/5000
FVH (80°-90°)	59.3	0.4			G1/100
BL (0°-30°)	839.8	5.6	B2/1000		
BM (30°-60°)	4058.0	27.1	B3/5000		
BH (60°-80°)	2479.9	16.6	B3/2500		G3/2500
BVH (80°-90°)	56.8	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1533.5	1533.5	1533.5	1533.5	1533.5	1533.5	1533.5	1533.5	1533.5	1533.5	1533.5
2.5°	1523.8	1523.8	1522.2	1530.2	1538.3	1541.5	1548.0	1549.6	1559.3	1551.2	1567.4
5°	1518.9	1517.3	1530.2	1549.6	1549.6	1570.6	1583.5	1601.3	1606.1	1615.8	1619.0
7.5°	1552.8	1549.6	1543.2	1564.1	1581.9	1614.2	1631.9	1662.6	1673.9	1686.8	1701.3
10°	1573.8	1573.8	1567.4	1604.5	1620.6	1664.2	1703.0	1733.6	1777.2	1791.7	1793.4
12.5°	1577.1	1581.9	1601.3	1649.7	1694.9	1751.4	1780.4	1838.6	1882.1	1909.6	1919.3
15°	1625.5	1615.8	1636.8	1703.0	1769.1	1819.2	1870.8	1912.8	1975.8	2011.3	2033.9
17.5°	1669.1	1659.4	1698.1	1777.2	1845.0	1922.5	1967.7	2012.9	2058.1	2090.4	2092.0
20°	1738.5	1746.5	1780.4	1866.0	1954.8	2022.6	2074.2	2082.3	2104.9	2151.7	2143.6
22.5°	1824.0	1817.6	1888.6	1982.2	2079.1	2135.6	2164.6	2143.6	2132.3	2182.4	2193.7
25°	1909.6	1928.9	1993.5	2080.7	2196.9	2272.8	2280.8	2222.7	2180.8	2198.5	2193.7
27.5°	2040.3	2043.6	2111.3	2214.7	2332.5	2398.7	2393.8	2311.5	2230.8	2232.4	2235.6
30°	2208.2	2192.1	2266.3	2359.9	2476.2	2535.9	2543.9	2426.1	2318.0	2285.7	2293.8
32.5°	2369.6	2389.0	2453.6	2560.1	2645.6	2679.5	2661.8	2556.9	2416.4	2372.8	2377.7
35°	2576.2	2573.0	2661.8	2752.2	2816.7	2823.2	2808.7	2655.3	2523.0	2466.5	2443.9
37.5°	2797.4	2826.4	2884.5	2958.8	3026.6	3029.8	2950.7	2828.0	2665.0	2571.4	2598.8
40°	3044.3	3076.6	3118.6	3226.7	3276.8	3225.1	3144.4	2978.2	2808.7	2726.4	2739.3
42.5°	3262.3	3276.8	3362.3	3489.9	3514.1	3491.5	3372.0	3170.3	2973.3	2882.9	2889.4
45°	3462.4	3481.8	3593.2	3707.8	3764.3	3725.5	3586.7	3394.6	3165.4	3087.9	3057.3
47.5°	3646.4	3685.2	3793.3	3911.2	3998.3	4001.6	3830.5	3598.0	3355.9	3254.2	3252.6
50°	3770.7	3827.2	3933.8	4067.7	4195.3	4245.3	4074.2	3824.0	3564.1	3456.0	3444.7
52.5°	3838.5	3896.6	4003.2	4211.4	4353.4	4430.9	4350.2	4035.5	3807.9	3694.9	3677.1
55°	3756.2	3794.9	3969.3	4261.4	4481.0	4608.5	4555.2	4327.6	4050.0	3958.0	3974.1
57.5°	3405.9	3486.6	3701.3	4066.1	4477.7	4790.9	4786.0	4603.6	4329.2	4242.1	4245.3
60°	2803.8	2871.6	3136.4	3646.4	4296.9	4865.1	5036.2	4871.6	4642.4	4540.7	4537.5
62.5°	1979.0	2064.5	2371.2	2928.1	3764.3	4761.8	5323.6	5209.0	4949.1	4874.8	4902.3
65°	1107.3	1159.0	1443.1	1946.7	2868.4	4193.6	5375.2	5559.2	5260.6	5147.6	5152.5
67.5°	592.4	611.8	744.1	1021.8	1754.6	3233.2	4853.8	5761.0	5598.0	5402.7	5372.0
70°	406.8	413.2	447.1	523.0	829.7	1933.8	3661.0	5401.0	5851.4	5585.1	5636.7
72.5°	343.8	340.6	348.7	356.7	434.2	865.2	2148.5	4156.5	5523.7	5423.6	5404.3
75°	298.6	297.0	300.2	292.2	301.9	380.9	950.8	2590.8	4043.5	4513.2	4585.9
77.5°	247.0	248.6	250.2	242.1	238.9	251.8	382.6	1138.0	1990.3	2196.9	2369.6
80°	187.2	190.5	203.4	195.3	182.4	184.0	226.0	380.9	571.4	518.2	534.3
82.5°	127.5	129.1	156.6	146.9	137.2	124.3	145.3	196.9	222.8	169.5	148.5
85°	90.4	88.8	101.7	93.6	87.2	63.0	87.2	111.4	134.0	83.9	75.9
87.5°	21.0	21.0	42.0	33.9	32.3	25.8	33.9	43.6	58.1	37.1	33.9
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°	1533.5	1533.5	1533.5	1533.5	1533.5	1533.5	1533.5	1533.5	1533.5	1533.5
2.5°	1562.5	1548.0	1548.0	1544.8	1531.9	1528.6	1517.3	1520.6	1512.5	1504.4
5°	1617.4	1598.0	1598.0	1570.6	1544.8	1541.5	1528.6	1528.6	1515.7	1518.9
7.5°	1693.3	1675.5	1646.5	1622.3	1586.7	1572.2	1548.0	1544.8	1541.5	1535.1
10°	1783.7	1761.1	1732.0	1682.0	1652.9	1625.5	1601.3	1567.4	1559.3	1560.9
12.5°	1906.3	1870.8	1807.9	1764.3	1727.2	1691.7	1656.1	1606.1	1594.8	1599.7
15°	1993.5	1948.3	1885.4	1869.2	1819.2	1775.6	1717.5	1661.0	1641.6	1636.8
17.5°	2064.5	2027.4	1990.3	1966.1	1925.7	1872.4	1791.7	1727.2	1683.6	1678.7
20°	2122.6	2074.2	2066.2	2080.7	2030.6	1995.1	1896.7	1817.6	1759.5	1735.2
22.5°	2158.2	2127.5	2150.1	2163.0	2159.8	2100.0	1998.4	1906.3	1833.7	1811.1
25°	2196.9	2161.4	2242.1	2285.7	2297.0	2198.5	2119.4	1998.4	1927.3	1912.8
27.5°	2216.3	2229.2	2322.8	2414.8	2406.7	2330.9	2224.3	2116.2	2059.7	2033.9
30°	2272.8	2293.8	2435.8	2539.1	2540.7	2466.5	2385.8	2263.1	2200.1	2188.8
32.5°	2374.5	2400.3	2552.0	2661.8	2681.2	2624.7	2543.9	2468.1	2403.5	2377.7
35°	2451.9	2518.1	2689.2	2789.3	2841.0	2807.1	2761.9	2682.8	2615.0	2592.4
37.5°	2563.3	2655.3	2820.0	2955.6	3013.7	3010.4	2976.5	2891.0	2834.5	2815.1
40°	2723.1	2815.1	2965.2	3144.4	3252.6	3247.7	3228.4	3162.2	3078.2	3068.6
42.5°	2892.6	2968.5	3163.8	3368.8	3523.8	3507.6	3456.0	3378.5	3320.4	3307.5
45°	3057.3	3175.1	3355.9	3619.0	3735.2	3775.6	3714.2	3581.9	3515.7	3507.6
47.5°	3263.9	3357.5	3583.5	3819.2	3991.9	3998.3	3893.4	3770.7	3649.7	3675.5
50°	3447.9	3572.2	3801.4	4059.7	4266.3	4192.0	4058.0	3904.7	3817.5	3783.6
52.5°	3644.8	3796.6	4062.9	4326.0	4440.6	4366.4	4148.4	3977.3	3845.0	3830.5
55°	3932.1	4011.2	4359.9	4561.7	4598.8	4442.2	4121.0	3878.9	3707.8	3665.8
57.5°	4224.3	4316.3	4621.4	4795.7	4757.0	4400.3	3943.4	3569.0	3344.6	3284.9
60°	4519.7	4632.7	4889.4	5049.2	4849.0	4111.3	3441.4	2958.8	2697.3	2644.0
62.5°	4849.0	4995.9	5225.1	5281.6	4576.2	3539.9	2731.2	2135.6	1870.8	1782.1
65°	5141.2	5291.3	5573.8	5233.2	3996.7	2640.8	1765.9	1220.3	1025.0	954.0
67.5°	5381.7	5551.2	5690.0	4631.1	2926.5	1546.4	920.1	642.4	569.8	544.0
70°	5572.2	5854.6	5205.7	3404.3	1672.3	753.8	497.2	422.9	413.2	406.8
72.5°	5405.9	5368.8	3886.9	1964.5	732.8	414.8	360.0	348.7	347.0	348.7
75°	4421.2	3943.4	2324.4	853.9	368.0	300.2	298.6	293.8	301.9	301.9
77.5°	2145.2	1875.7	971.7	366.4	242.1	235.7	243.7	243.7	243.7	243.7
80°	497.2	550.4	347.0	222.8	175.9	175.9	193.7	195.3	187.2	184.0
82.5°	169.5	226.0	190.5	140.4	116.2	130.7	146.9	150.1	124.3	125.9
85°	83.9	132.4	103.3	80.7	59.7	80.7	95.2	100.1	85.6	82.3
87.5°	38.7	58.1	38.7	27.4	21.0	29.1	27.4	22.6	12.9	12.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)