

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: P481315

Luminaire Tested: **IFLD-S-SA3A-750-U-RW**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P481315  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3A-750-U-RW  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens  
Light Source: (48) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

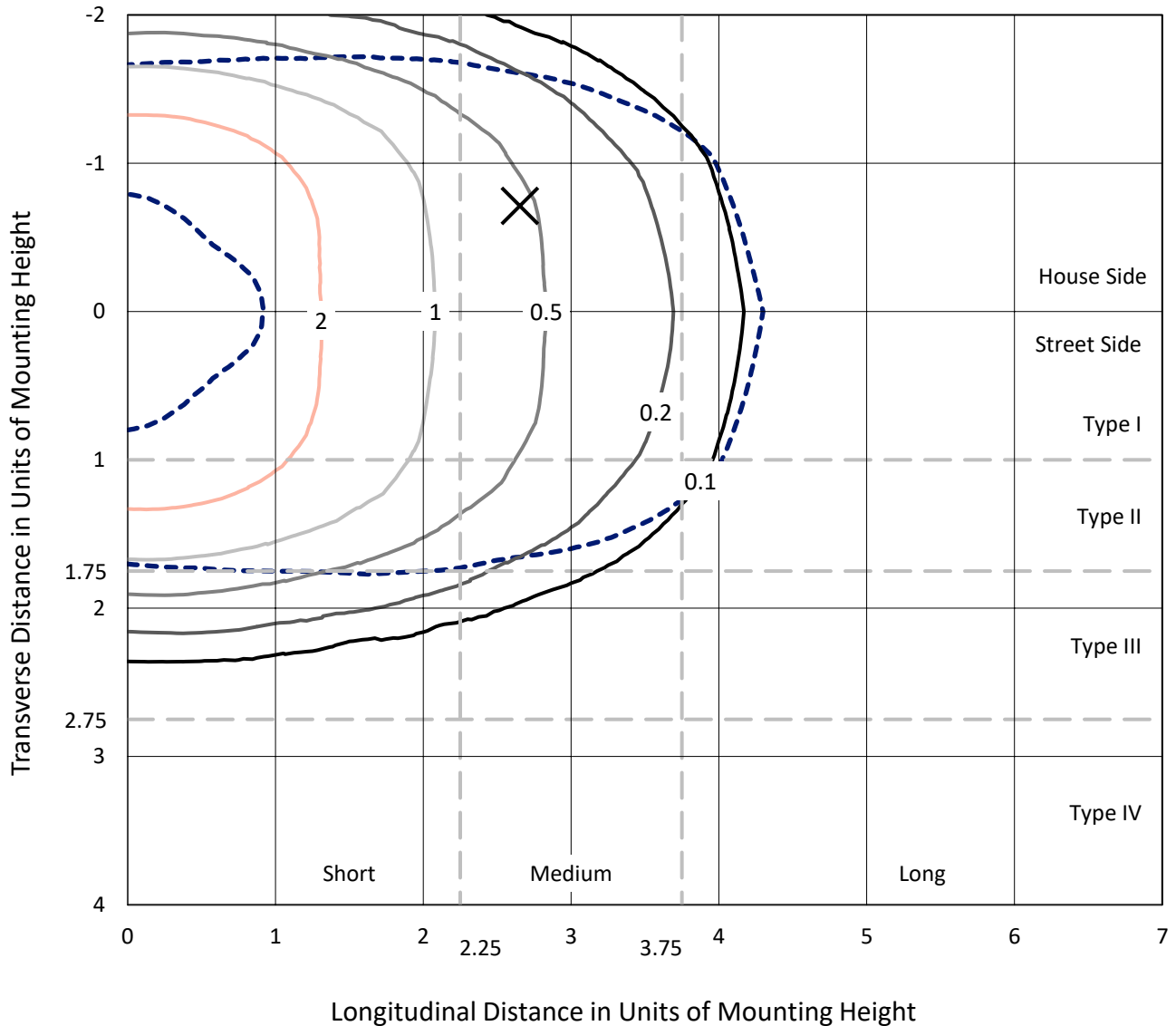
Lumens per Lamp: N/A  
Luminaire Lumens: 14496.2 lumens  
Efficiency: N/A  
Efficacy: 152.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

Input Watts (W): 94.8  
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

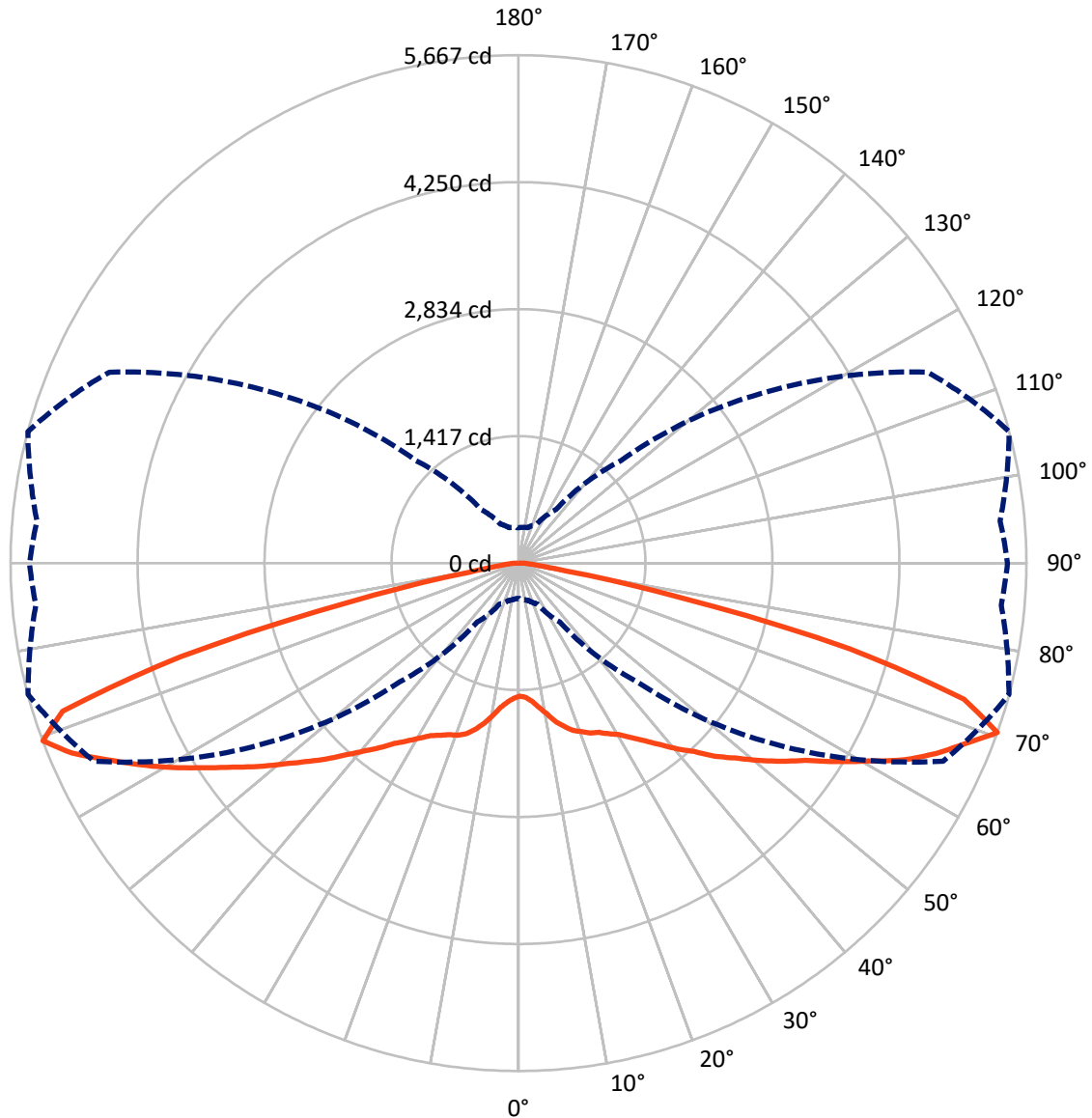
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.4 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
<b>House Side</b>	Lumens	7196.5	0.0	7196.5
	% Fixture	49.6	0.0	49.6
<b>Street Side</b>	Lumens	7299.7	0.0	7299.7
	% Fixture	50.4	0.0	50.4
<b>Total</b>	Lumens	14496.2	0.0	14496.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	147.7	1.0
10°-20°	503.1	3.5
20°-30°	974.1	6.7
30°-40°	1647.6	11.4
40°-50°	2628.4	18.1
50°-60°	3597.8	24.8
60°-70°	3391.1	23.4
70°-80°	1493.9	10.3
80°-90°	112.4	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°	14496.2	100.0
0°-180°	14496.2	100.0

**Coefficient of Utilization**



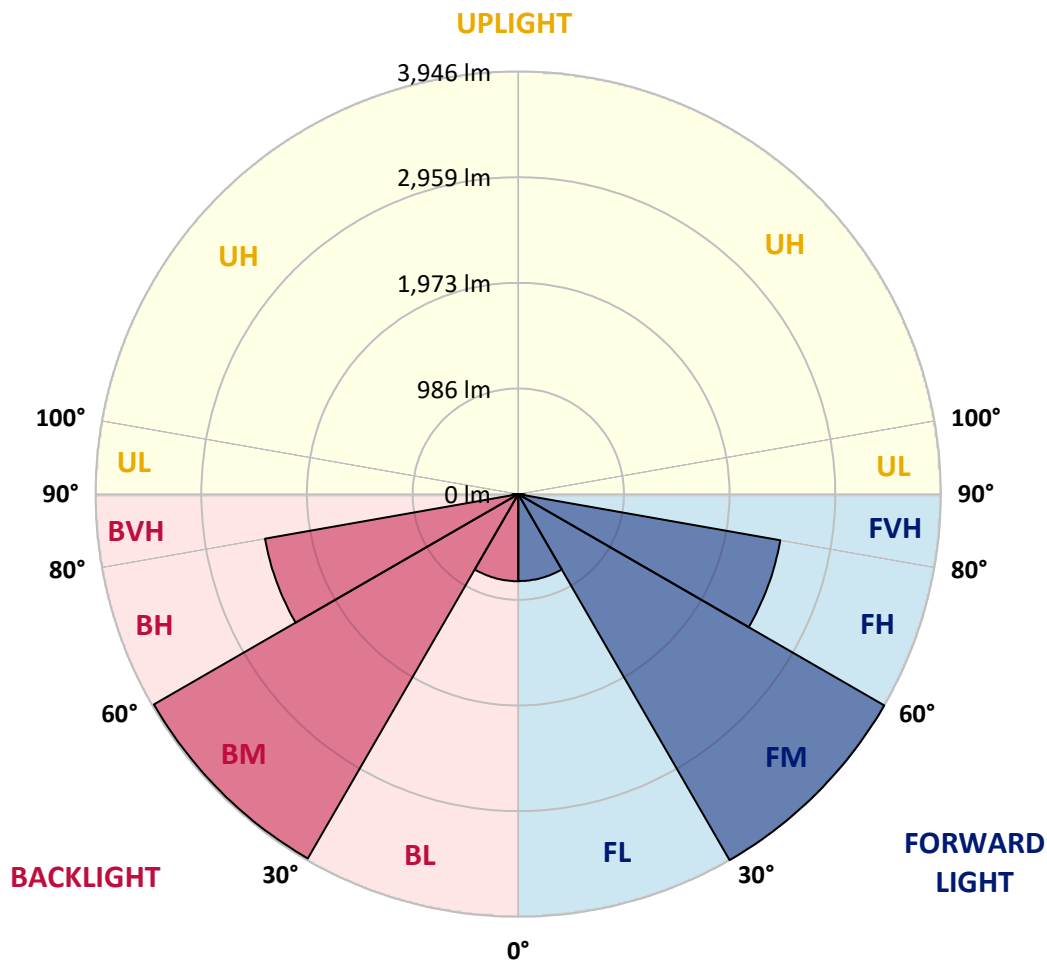
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	812.0	5.6			
FM (30°-60°)	3945.7	27.2			
FH (60°-80°)	2484.5	17.1			G2/5000
FVH (80°-90°)	57.4	0.4			G1/100
BL (0°-30°)	812.9	5.6	B2/1000		
BM (30°-60°)	3928.1	27.1	B3/5000		
BH (60°-80°)	2400.5	16.6	B3/2500		G3/2500
BVH (80°-90°)	55.0	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°	1484.4	1484.4	1484.4	1484.4	1484.4	1484.4	1484.4	1484.4	1484.4	1484.4	1484.4
2.5°	1475.0	1475.0	1473.5	1481.3	1489.1	1492.2	1498.5	1500.0	1509.4	1501.6	1517.2
5°	1470.3	1468.8	1481.3	1500.0	1500.0	1520.3	1532.8	1550.0	1554.7	1564.1	1567.2
7.5°	1503.1	1500.0	1493.8	1514.1	1531.3	1562.5	1579.7	1609.4	1620.3	1632.8	1646.9
10°	1523.5	1523.5	1517.2	1553.1	1568.8	1611.0	1648.5	1678.1	1720.3	1734.4	1736.0
12.5°	1526.6	1531.3	1550.0	1596.9	1640.6	1695.3	1723.5	1779.7	1821.9	1848.5	1857.8
15°	1573.5	1564.1	1584.4	1648.5	1712.5	1761.0	1811.0	1851.6	1912.5	1946.9	1968.8
17.5°	1615.6	1606.3	1643.8	1720.3	1786.0	1861.0	1904.7	1948.5	1992.2	2023.5	2025.0
20°	1682.8	1690.6	1723.5	1806.3	1892.2	1957.8	2007.8	2015.7	2037.5	2082.8	2075.0
22.5°	1765.6	1759.4	1828.2	1918.8	2012.5	2067.2	2095.3	2075.0	2064.1	2112.5	2123.5
25°	1848.5	1867.2	1929.7	2014.1	2126.6	2200.0	2207.8	2151.6	2111.0	2128.2	2123.5
27.5°	1975.0	1978.2	2043.8	2143.8	2257.8	2321.9	2317.2	2237.5	2159.4	2161.0	2164.1
30°	2137.5	2121.9	2193.8	2284.4	2396.9	2454.7	2462.5	2348.5	2243.8	2212.5	2220.3
32.5°	2293.8	2312.5	2375.0	2478.2	2561.0	2593.8	2576.6	2475.0	2339.1	2296.9	2301.6
35°	2493.8	2490.7	2576.6	2664.1	2726.6	2732.8	2718.8	2570.3	2442.2	2387.5	2365.7
37.5°	2707.8	2736.0	2792.2	2864.1	2929.7	2932.9	2856.3	2737.5	2579.7	2489.1	2515.7
40°	2946.9	2978.2	3018.8	3123.5	3171.9	3121.9	3043.8	2882.9	2718.8	2639.1	2651.6
42.5°	3157.9	3171.9	3254.7	3378.2	3401.6	3379.7	3264.1	3068.8	2878.2	2790.7	2796.9
45°	3351.6	3370.4	3478.2	3589.1	3643.8	3606.3	3471.9	3286.0	3064.1	2989.1	2959.4
47.5°	3529.7	3567.2	3671.9	3786.0	3870.4	3873.5	3707.9	3482.9	3248.5	3150.0	3148.5
50°	3650.0	3704.7	3807.9	3937.6	4061.0	4109.4	3943.8	3701.6	3450.0	3345.4	3334.4
52.5°	3715.7	3771.9	3875.1	4076.6	4214.1	4289.1	4211.0	3906.3	3686.0	3576.6	3559.4
55°	3636.0	3673.5	3842.2	4125.1	4337.6	4461.0	4409.4	4189.1	3920.4	3831.3	3846.9
57.5°	3296.9	3375.0	3582.9	3936.0	4334.4	4637.6	4632.9	4456.3	4190.7	4106.3	4109.4
60°	2714.1	2779.7	3036.0	3529.7	4159.4	4709.4	4875.1	4715.7	4493.8	4395.4	4392.2
62.5°	1915.7	1998.5	2295.3	2834.4	3643.8	4609.4	5153.2	5042.3	4790.7	4718.8	4745.4
65°	1071.9	1121.9	1396.9	1884.4	2776.6	4059.4	5203.2	5381.3	5092.3	4982.9	4987.6
67.5°	573.4	592.2	720.3	989.1	1698.5	3129.7	4698.5	5576.6	5418.8	5229.8	5200.1
70°	393.8	400.0	432.8	506.3	803.1	1871.9	3543.8	5228.2	5664.1	5406.3	5456.3
72.5°	332.8	329.7	337.5	345.3	420.3	837.5	2079.7	4023.5	5346.9	5250.1	5231.3
75°	289.1	287.5	290.6	282.8	292.2	368.8	920.3	2507.8	3914.1	4368.8	4439.1
77.5°	239.1	240.6	242.2	234.4	231.3	243.8	370.3	1101.6	1926.6	2126.6	2293.8
80°	181.3	184.4	196.9	189.1	176.6	178.1	218.8	368.8	553.1	501.6	517.2
82.5°	123.4	125.0	151.6	142.2	132.8	120.3	140.6	190.6	215.6	164.1	143.8
85°	87.5	85.9	98.4	90.6	84.4	60.9	84.4	107.8	129.7	81.3	73.4
87.5°	20.3	20.3	40.6	32.8	31.3	25.0	32.8	42.2	56.3	35.9	32.8
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°	1484.4	1484.4	1484.4	1484.4	1484.4	1484.4	1484.4	1484.4	1484.4	1484.4
2.5°	1512.5	1498.5	1498.5	1495.3	1482.8	1479.7	1468.8	1471.9	1464.1	1456.3
5°	1565.6	1546.9	1546.9	1520.3	1495.3	1492.2	1479.7	1479.7	1467.2	1470.3
7.5°	1639.1	1621.9	1593.8	1570.3	1536.0	1521.9	1498.5	1495.3	1492.2	1486.0
10°	1726.6	1704.7	1676.6	1628.1	1600.0	1573.5	1550.0	1517.2	1509.4	1511.0
12.5°	1845.3	1811.0	1750.0	1707.8	1671.9	1637.5	1603.1	1554.7	1543.8	1548.5
15°	1929.7	1886.0	1825.0	1809.4	1761.0	1718.8	1662.5	1607.8	1589.1	1584.4
17.5°	1998.5	1962.5	1926.6	1903.2	1864.1	1812.5	1734.4	1671.9	1629.7	1625.0
20°	2054.7	2007.8	2000.0	2014.1	1965.7	1931.3	1836.0	1759.4	1703.1	1679.7
22.5°	2089.1	2059.4	2081.3	2093.8	2090.7	2032.8	1934.4	1845.3	1775.0	1753.1
25°	2126.6	2092.2	2170.3	2212.5	2223.5	2128.2	2051.6	1934.4	1865.7	1851.6
27.5°	2145.3	2157.8	2248.5	2337.5	2329.7	2256.3	2153.2	2048.5	1993.8	1968.8
30°	2200.0	2220.3	2357.8	2457.8	2459.4	2387.5	2309.4	2190.7	2129.7	2118.8
32.5°	2298.5	2323.5	2470.3	2576.6	2595.3	2540.7	2462.5	2389.1	2326.6	2301.6
35°	2373.5	2437.5	2603.2	2700.0	2750.0	2717.2	2673.5	2596.9	2531.3	2509.4
37.5°	2481.3	2570.3	2729.7	2861.0	2917.2	2914.1	2881.3	2798.5	2743.8	2725.0
40°	2636.0	2725.0	2870.4	3043.8	3148.5	3143.8	3125.0	3061.0	2979.7	2970.4
42.5°	2800.0	2873.5	3062.5	3261.0	3411.0	3395.4	3345.4	3270.4	3214.1	3201.6
45°	2959.4	3073.5	3248.5	3503.2	3615.7	3654.7	3595.4	3467.2	3403.2	3395.4
47.5°	3159.4	3250.0	3468.8	3696.9	3864.1	3870.4	3768.8	3650.0	3532.9	3557.9
50°	3337.5	3457.9	3679.7	3929.7	4129.7	4057.9	3928.2	3779.7	3695.4	3662.6
52.5°	3528.2	3675.1	3932.9	4187.6	4298.5	4226.6	4015.7	3850.1	3721.9	3707.9
55°	3806.3	3882.9	4220.4	4415.7	4451.6	4300.1	3989.1	3754.7	3589.1	3548.5
57.5°	4089.1	4178.2	4473.5	4642.3	4604.8	4259.4	3817.2	3454.7	3237.5	3179.7
60°	4375.1	4484.4	4732.9	4887.6	4693.8	3979.7	3331.3	2864.1	2611.0	2559.4
62.5°	4693.8	4836.0	5057.9	5112.6	4429.7	3426.6	2643.8	2067.2	1811.0	1725.0
65°	4976.6	5121.9	5395.4	5065.7	3868.8	2556.3	1709.4	1181.3	992.2	923.5
67.5°	5209.4	5373.5	5507.9	4482.9	2832.9	1496.9	890.6	621.9	551.6	526.6
70°	5393.8	5667.3	5039.1	3295.4	1618.8	729.7	481.3	409.4	400.0	393.8
72.5°	5232.9	5196.9	3762.6	1901.6	709.4	401.6	348.4	337.5	335.9	337.5
75°	4279.7	3817.2	2250.0	826.6	356.3	290.6	289.1	284.4	292.2	292.2
77.5°	2076.6	1815.6	940.6	354.7	234.4	228.1	235.9	235.9	235.9	235.9
80°	481.3	532.8	335.9	215.6	170.3	170.3	187.5	189.1	181.3	178.1
82.5°	164.1	218.8	184.4	135.9	112.5	126.6	142.2	145.3	120.3	121.9
85°	81.3	128.1	100.0	78.1	57.8	78.1	92.2	96.9	82.8	79.7
87.5°	37.5	56.3	37.5	26.6	20.3	28.1	26.6	21.9	12.5	12.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)