

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: P481160

Luminaire Tested: **IFLD-S-SA3B-727-U-RW**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P481160  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3B-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**

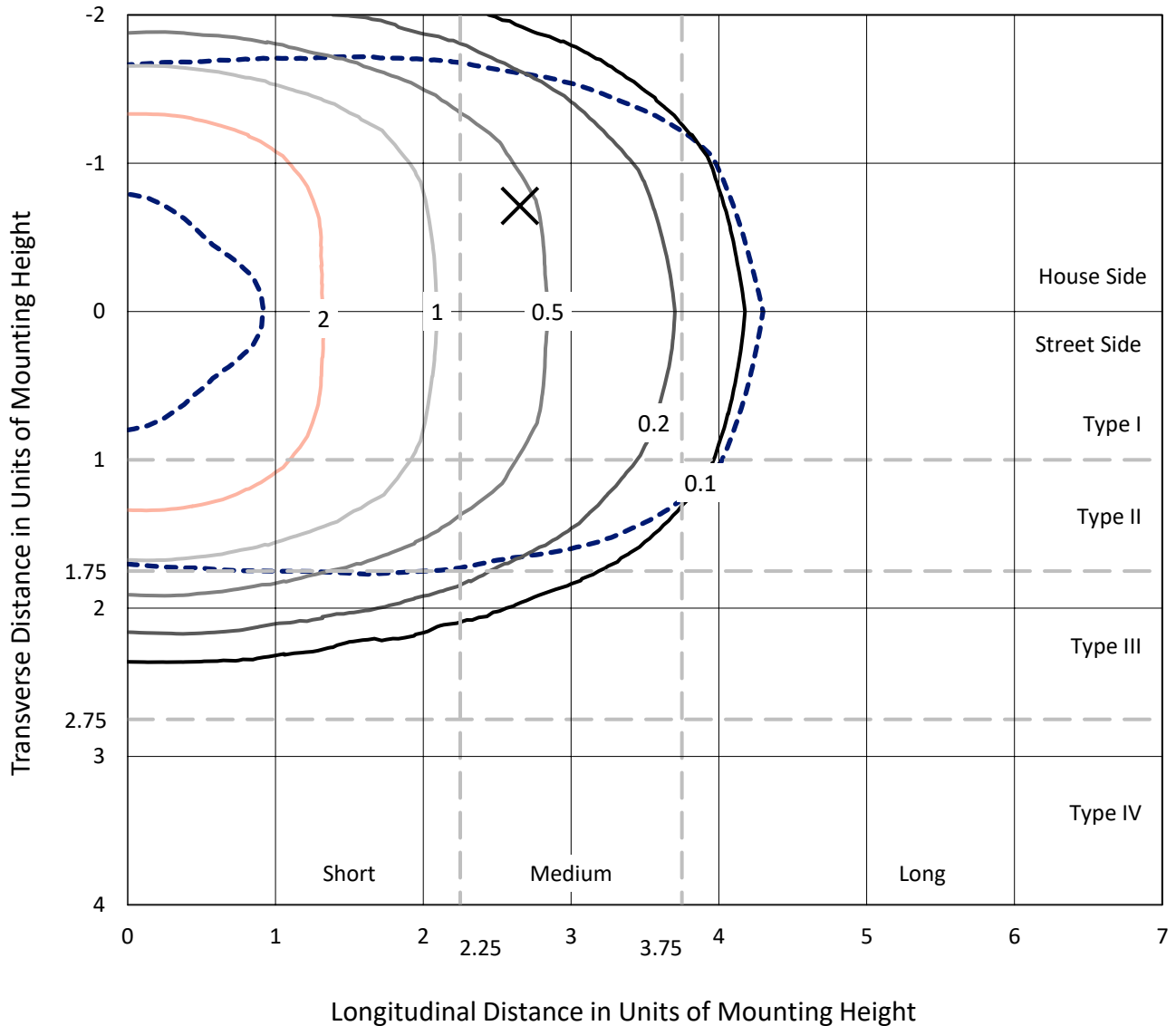
Lumens per Lamp: N/A  
Luminaire Lumens: 14657.7 lumens  
Efficiency: N/A  
Efficacy: 119.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

Input Watts (W): 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

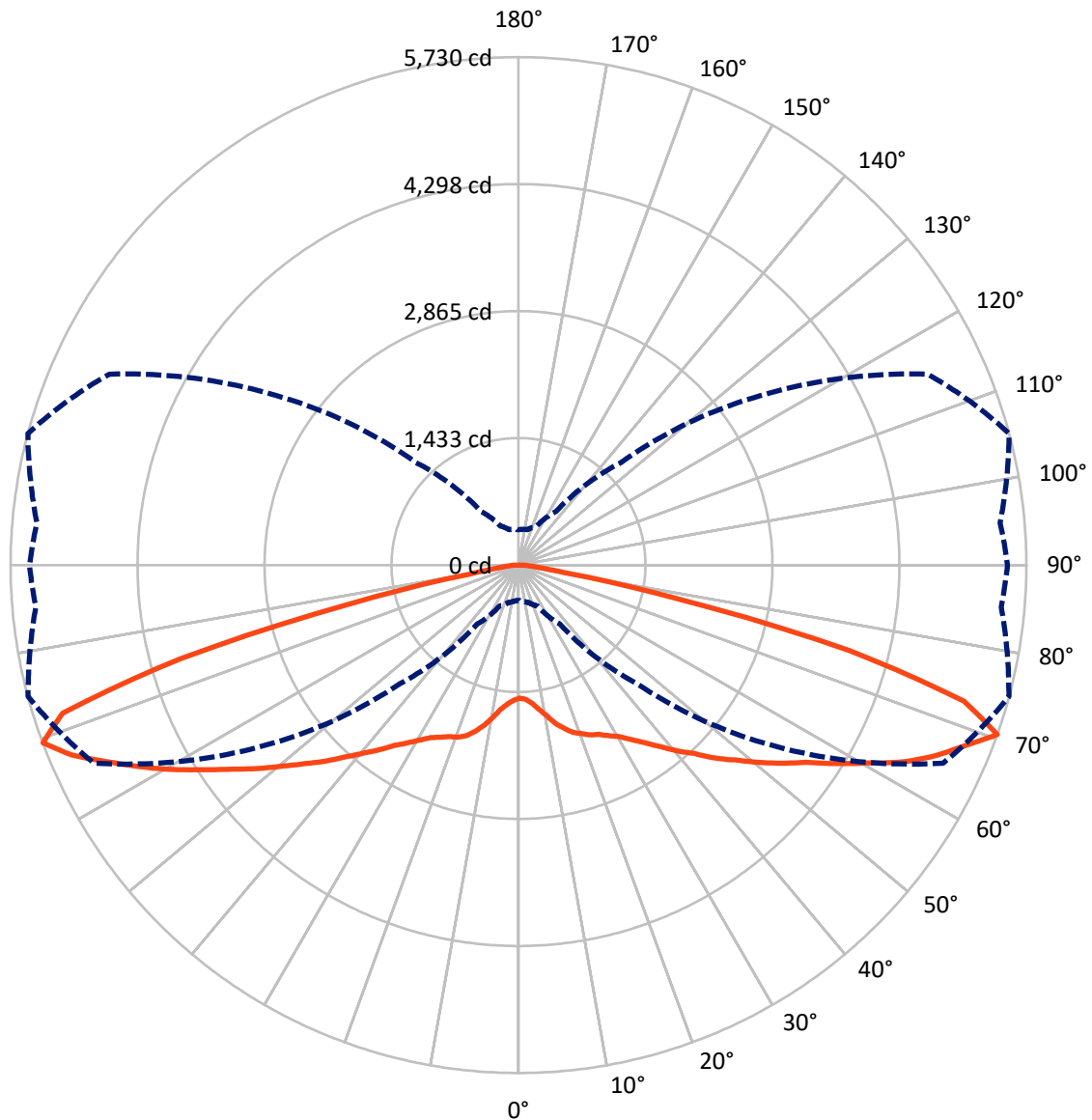
× Max cd  
 - - - 1/2 Max cd



Based on 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	7276.7	0.0	7276.7
	% Fixture	49.6	0.0	49.6
<b>Street Side</b>	Lumens	7381.0	0.0	7381.0
	% Fixture	50.4	0.0	50.4
<b>Total</b>	Lumens	14657.7	0.0	14657.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	149.4	1.0
10°-20°	508.7	3.5
20°-30°	985.0	6.7
30°-40°	1666.0	11.4
40°-50°	2657.7	18.1
50°-60°	3637.8	24.8
60°-70°	3428.9	23.4
70°-80°	1510.5	10.3
80°-90°	113.7	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°	14657.7	100.0
0°-180°	14657.7	100.0

**Coefficient of Utilization**



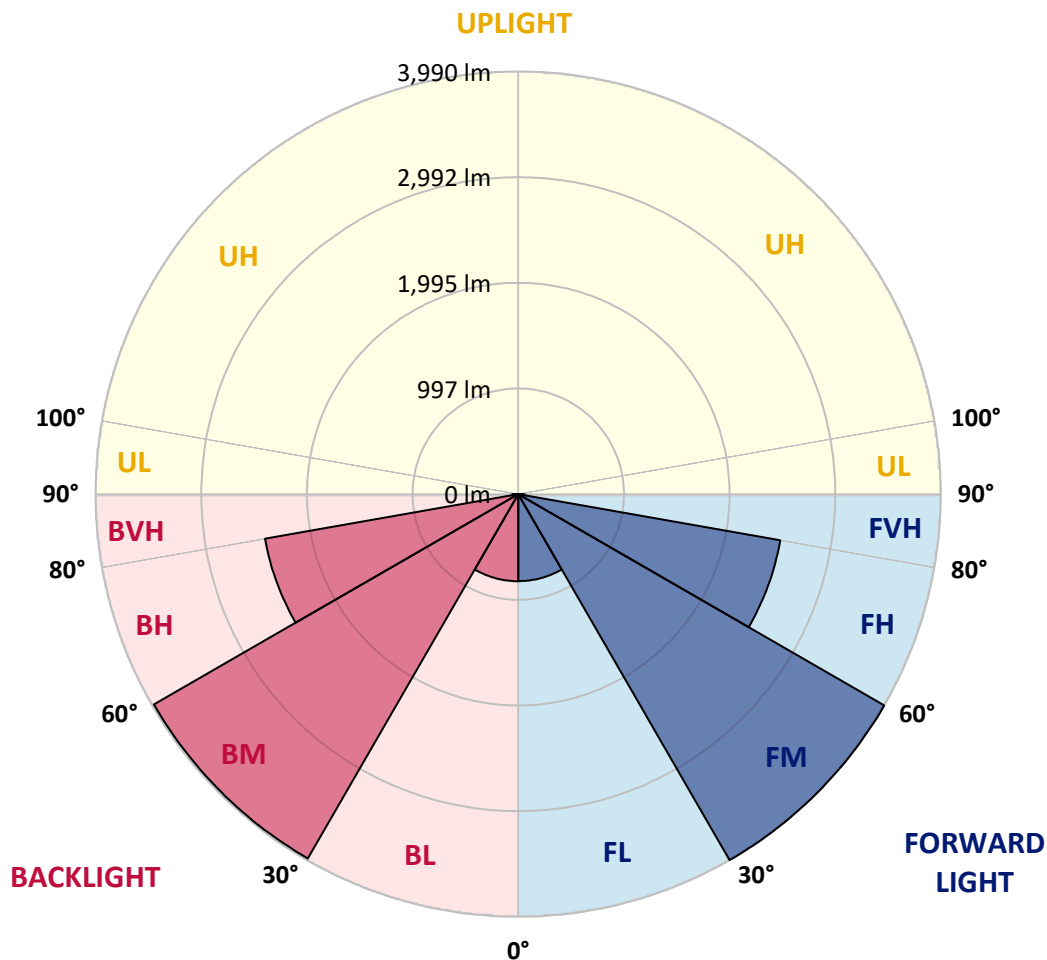
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	821.1	5.6			
FM (30°-60°)	3989.7	27.2			
FH (60°-80°)	2512.2	17.1			G2/5000
FVH (80°-90°)	58.1	0.4			G1/100
BL (0°-30°)	822.0	5.6	B2/1000		
BM (30°-60°)	3971.9	27.1	B3/5000		
BH (60°-80°)	2427.3	16.6	B3/2500		G3/2500
BVH (80°-90°)	55.6	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: 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°	1500.9	1500.9	1500.9	1500.9	1500.9	1500.9	1500.9	1500.9	1500.9	1500.9	1500.9
2.5°	1491.5	1491.5	1489.9	1497.8	1505.7	1508.8	1515.1	1516.7	1526.2	1518.3	1534.1
5°	1486.7	1485.1	1497.8	1516.7	1516.7	1537.3	1549.9	1567.3	1572.0	1581.5	1584.7
7.5°	1519.9	1516.7	1510.4	1530.9	1548.3	1579.9	1597.3	1627.3	1638.4	1651.0	1665.2
10°	1540.4	1540.4	1534.1	1570.4	1586.2	1628.9	1666.8	1696.8	1739.5	1753.7	1755.3
12.5°	1543.6	1548.3	1567.3	1614.7	1658.9	1714.2	1742.7	1799.5	1842.2	1869.1	1878.5
15°	1591.0	1581.5	1602.0	1666.8	1731.6	1780.6	1831.1	1872.2	1933.8	1968.6	1990.7
17.5°	1633.6	1624.2	1662.1	1739.5	1805.9	1881.7	1925.9	1970.2	2014.4	2046.0	2047.6
20°	1701.6	1709.5	1742.7	1826.4	1913.3	1979.6	2030.2	2038.1	2060.2	2106.0	2098.1
22.5°	1785.3	1779.0	1848.5	1940.2	2034.9	2090.2	2118.7	2098.1	2087.1	2136.1	2147.1
25°	1869.1	1888.0	1951.2	2036.5	2150.3	2224.5	2232.4	2175.6	2134.5	2151.9	2147.1
27.5°	1997.0	2000.2	2066.5	2167.7	2283.0	2347.8	2343.0	2262.5	2183.5	2185.0	2188.2
30°	2161.3	2145.5	2218.2	2309.9	2423.6	2482.1	2490.0	2374.6	2268.8	2237.2	2245.1
32.5°	2319.3	2338.3	2401.5	2505.8	2589.5	2622.7	2605.3	2502.6	2365.2	2322.5	2327.2
35°	2521.6	2518.4	2605.3	2693.8	2757.0	2763.3	2749.1	2599.0	2469.4	2414.1	2392.0
37.5°	2738.0	2766.5	2823.3	2896.0	2962.4	2965.5	2888.1	2768.0	2608.5	2516.8	2543.7
40°	2979.7	3011.3	3052.4	3158.3	3207.3	3156.7	3077.7	2915.0	2749.1	2668.5	2681.1
42.5°	3193.0	3207.3	3291.0	3415.8	3439.5	3417.4	3300.5	3103.0	2910.2	2821.7	2828.1
45°	3388.9	3407.9	3516.9	3629.1	3684.4	3646.5	3510.6	3322.6	3098.2	3022.4	2992.4
47.5°	3569.1	3607.0	3712.8	3828.2	3913.5	3916.6	3749.2	3521.7	3284.7	3185.1	3183.6
50°	3690.7	3746.0	3850.3	3981.4	4106.2	4155.2	3987.7	3742.8	3488.5	3382.6	3371.6
52.5°	3757.1	3813.9	3918.2	4122.0	4261.1	4336.9	4257.9	3949.8	3727.0	3616.5	3599.1
55°	3676.5	3714.4	3885.0	4171.0	4385.9	4510.7	4458.6	4235.8	3964.0	3874.0	3889.8
57.5°	3333.6	3412.6	3622.8	3979.8	4382.7	4689.2	4684.5	4506.0	4237.4	4152.0	4155.2
60°	2744.3	2810.7	3069.8	3569.1	4205.8	4761.9	4929.4	4768.2	4543.9	4444.3	4441.2
62.5°	1937.0	2020.7	2320.9	2866.0	3684.4	4660.8	5210.6	5098.4	4844.1	4771.4	4798.2
65°	1083.8	1134.4	1412.5	1905.4	2807.5	4104.7	5261.2	5441.3	5149.0	5038.4	5043.1
67.5°	579.8	598.8	728.3	1000.1	1717.4	3164.6	4750.8	5638.8	5479.2	5288.0	5258.0
70°	398.1	404.5	437.6	511.9	812.1	1892.8	3583.3	5286.4	5727.2	5466.5	5517.1
72.5°	336.5	333.4	341.3	349.2	425.0	846.8	2102.9	4068.3	5406.5	5308.6	5289.6
75°	292.3	290.7	293.9	286.0	295.4	372.9	930.6	2535.8	3957.7	4417.5	4488.6
77.5°	241.7	243.3	244.9	237.0	233.8	246.5	374.4	1113.8	1948.0	2150.3	2319.3
80°	183.3	186.4	199.1	191.2	178.5	180.1	221.2	372.9	559.3	507.2	523.0
82.5°	124.8	126.4	153.3	143.8	134.3	121.7	142.2	192.8	218.0	165.9	145.4
85°	88.5	86.9	99.5	91.6	85.3	61.6	85.3	109.0	131.1	82.2	74.3
87.5°	20.5	20.5	41.1	33.2	31.6	25.3	33.2	42.7	56.9	36.3	33.2
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°	1500.9	1500.9	1500.9	1500.9	1500.9	1500.9	1500.9	1500.9	1500.9	1500.9
2.5°	1529.4	1515.1	1515.1	1512.0	1499.4	1496.2	1485.1	1488.3	1480.4	1472.5
5°	1583.1	1564.1	1564.1	1537.3	1512.0	1508.8	1496.2	1496.2	1483.6	1486.7
7.5°	1657.3	1640.0	1611.5	1587.8	1553.1	1538.8	1515.1	1512.0	1508.8	1502.5
10°	1745.8	1723.7	1695.3	1646.3	1617.8	1591.0	1567.3	1534.1	1526.2	1527.8
12.5°	1865.9	1831.1	1769.5	1726.9	1690.5	1655.8	1621.0	1572.0	1561.0	1565.7
15°	1951.2	1907.0	1845.4	1829.6	1780.6	1737.9	1681.0	1625.7	1606.8	1602.0
17.5°	2020.7	1984.4	1948.0	1924.4	1884.9	1832.7	1753.7	1690.5	1647.9	1643.1
20°	2077.6	2030.2	2022.3	2036.5	1987.5	1952.8	1856.4	1779.0	1722.1	1698.4
22.5°	2112.4	2082.3	2104.5	2117.1	2113.9	2055.5	1955.9	1865.9	1794.8	1772.7
25°	2150.3	2115.5	2194.5	2237.2	2248.2	2151.9	2074.4	1955.9	1886.4	1872.2
27.5°	2169.2	2181.9	2273.5	2363.6	2355.7	2281.4	2177.1	2071.3	2016.0	1990.7
30°	2224.5	2245.1	2384.1	2485.2	2486.8	2414.1	2335.1	2215.1	2153.4	2142.4
32.5°	2324.1	2349.4	2497.9	2605.3	2624.3	2569.0	2490.0	2415.7	2352.5	2327.2
35°	2399.9	2464.7	2632.2	2730.1	2780.7	2747.5	2703.3	2625.8	2559.5	2537.4
37.5°	2508.9	2599.0	2760.1	2892.8	2949.7	2946.6	2913.4	2829.6	2774.4	2755.4
40°	2665.3	2755.4	2902.3	3077.7	3183.6	3178.8	3159.9	3095.1	3012.9	3003.4
42.5°	2831.2	2905.5	3096.7	3297.3	3449.0	3433.2	3382.6	3306.8	3249.9	3237.3
45°	2992.4	3107.7	3284.7	3542.2	3656.0	3695.4	3635.4	3505.9	3441.1	3433.2
47.5°	3194.6	3286.2	3507.4	3738.1	3907.2	3913.5	3810.8	3690.7	3572.2	3597.5
50°	3374.7	3496.4	3720.7	3973.5	4175.7	4103.1	3971.9	3821.8	3736.5	3703.3
52.5°	3567.5	3716.0	3976.7	4234.2	4346.4	4273.7	4060.4	3892.9	3763.4	3749.2
55°	3848.7	3926.1	4267.4	4464.9	4501.2	4348.0	4033.6	3796.6	3629.1	3588.0
57.5°	4134.7	4224.7	4523.3	4694.0	4656.0	4306.9	3859.8	3493.2	3273.6	3215.2
60°	4423.8	4534.4	4785.6	4942.0	4746.1	4024.1	3368.4	2896.0	2640.1	2587.9
62.5°	4746.1	4889.9	5114.2	5169.5	4479.1	3464.8	2673.2	2090.2	1831.1	1744.2
65°	5032.1	5179.0	5455.5	5122.1	3911.9	2584.8	1728.4	1194.4	1003.3	933.7
67.5°	5267.5	5433.4	5569.2	4532.8	2864.4	1513.6	900.6	628.8	557.7	532.4
70°	5453.9	5730.4	5095.3	3332.1	1636.8	737.8	486.6	413.9	404.5	398.1
72.5°	5291.2	5254.8	3804.5	1922.8	717.3	406.0	352.3	341.3	339.7	341.3
75°	4327.4	3859.8	2275.1	835.8	360.2	293.9	292.3	287.5	295.4	295.4
77.5°	2099.7	1835.9	951.1	358.6	237.0	230.7	238.6	238.6	238.6	238.6
80°	486.6	538.8	339.7	218.0	172.2	172.2	189.6	191.2	183.3	180.1
82.5°	165.9	221.2	186.4	137.5	113.8	128.0	143.8	146.9	121.7	123.2
85°	82.2	129.6	101.1	79.0	58.5	79.0	93.2	98.0	83.7	80.6
87.5°	37.9	56.9	37.9	26.9	20.5	28.4	26.9	22.1	12.6	12.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)