

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: P478232

Luminaire Tested: **IFLD-S-SA2D-760-U-T4FT**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478232  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2D-760-U-T4FT  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens  
Light Source: (32) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

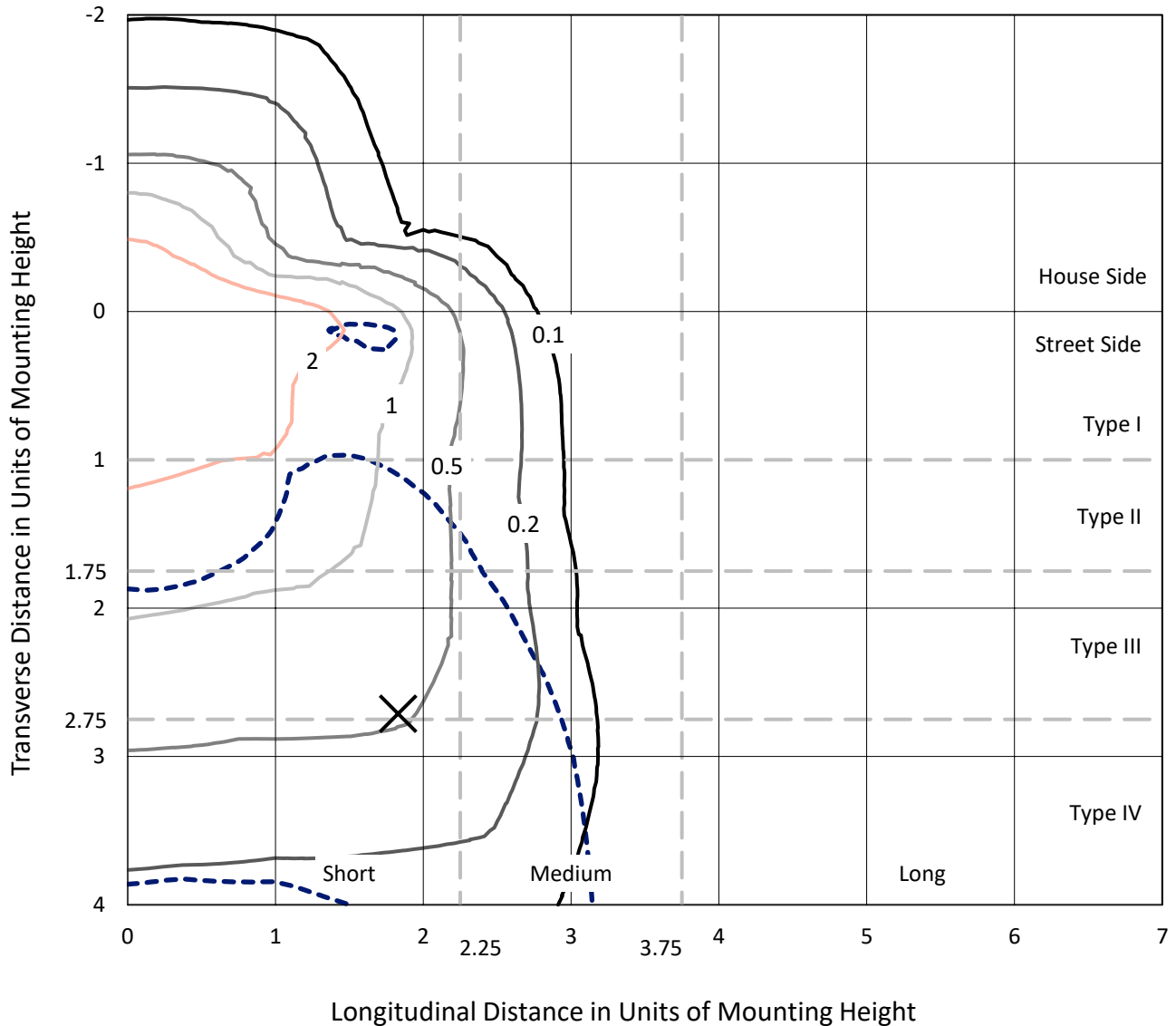
Lumens per Lamp: N/A  
Luminaire Lumens: 16389.5 lumens  
Efficiency: N/A  
Efficacy: 132.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3

Input Watts (W): 123.9  
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

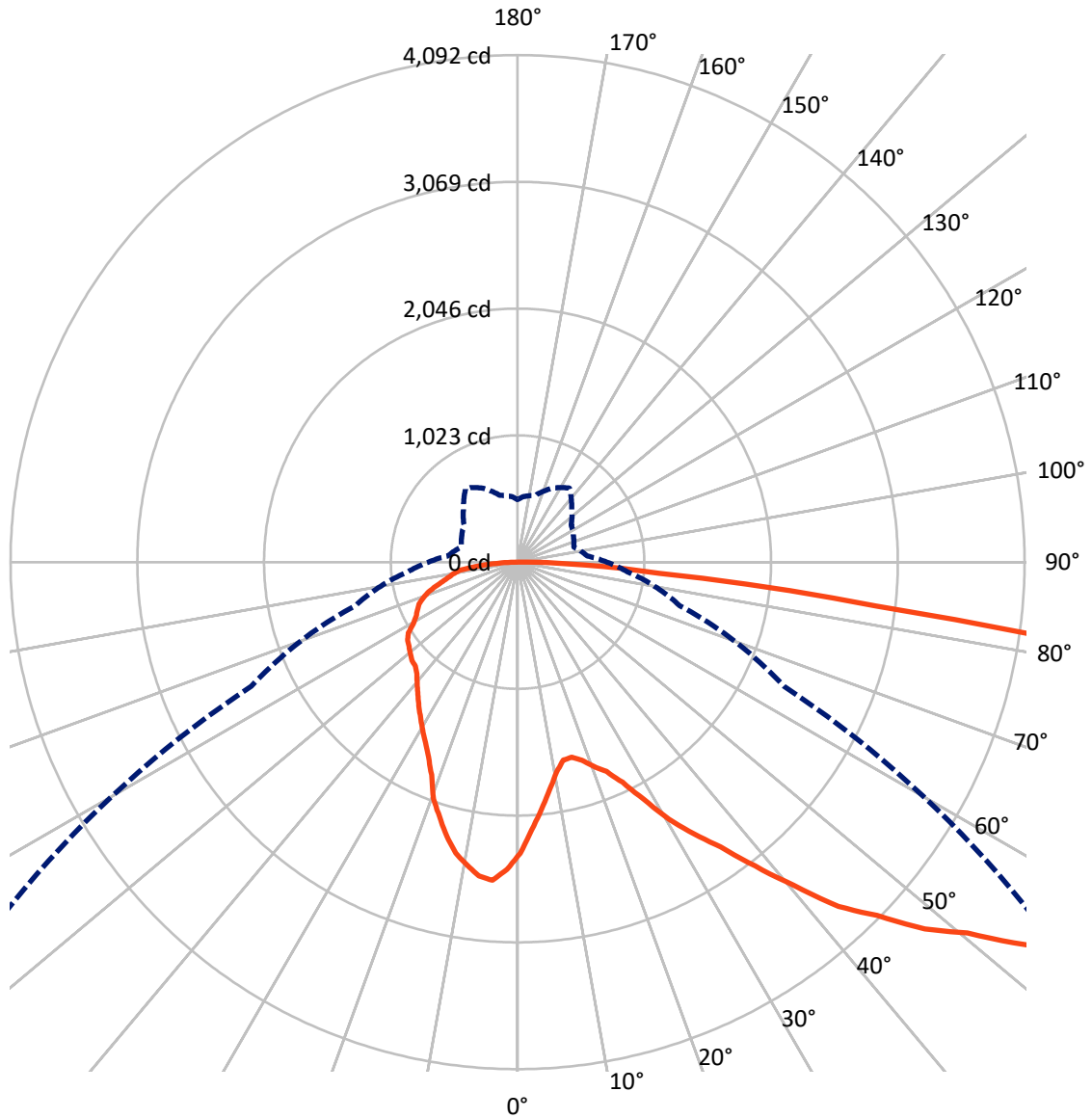
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral    - - - Horizontal Cone Through 73-Deg Vertical

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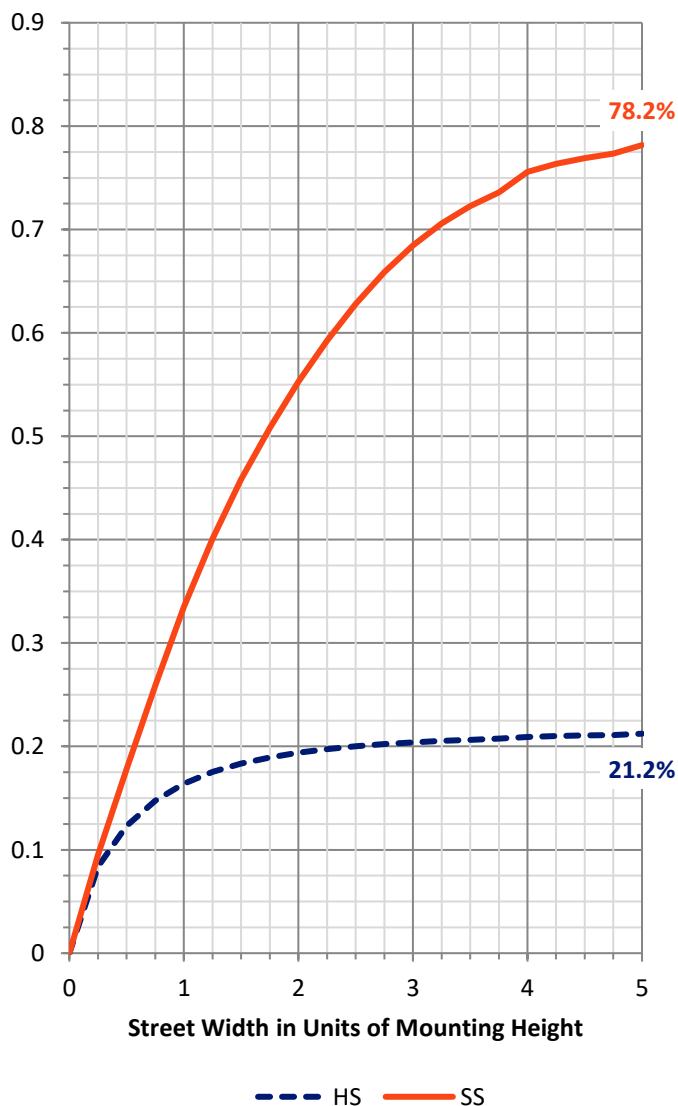
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3540.3	0.0	3540.3
	% Fixture	21.6	0.0	21.6
<b>Street Side</b>	Lumens	12849.1	0.0	12849.1
	% Fixture	78.4	0.0	78.4
<b>Total</b>	Lumens	16389.5	0.0	16389.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	216.9	1.3
10°-20°	606.9	3.7
20°-30°	998.9	6.1
30°-40°	1493.8	9.1
40°-50°	2214.5	13.5
50°-60°	3191.4	19.5
60°-70°	4072.6	24.8
70°-80°	3169.2	19.3
80°-90°	425.2	2.6
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°	16389.5	100.0
0°-180°	16389.5	100.0

**Coefficient of Utilization**



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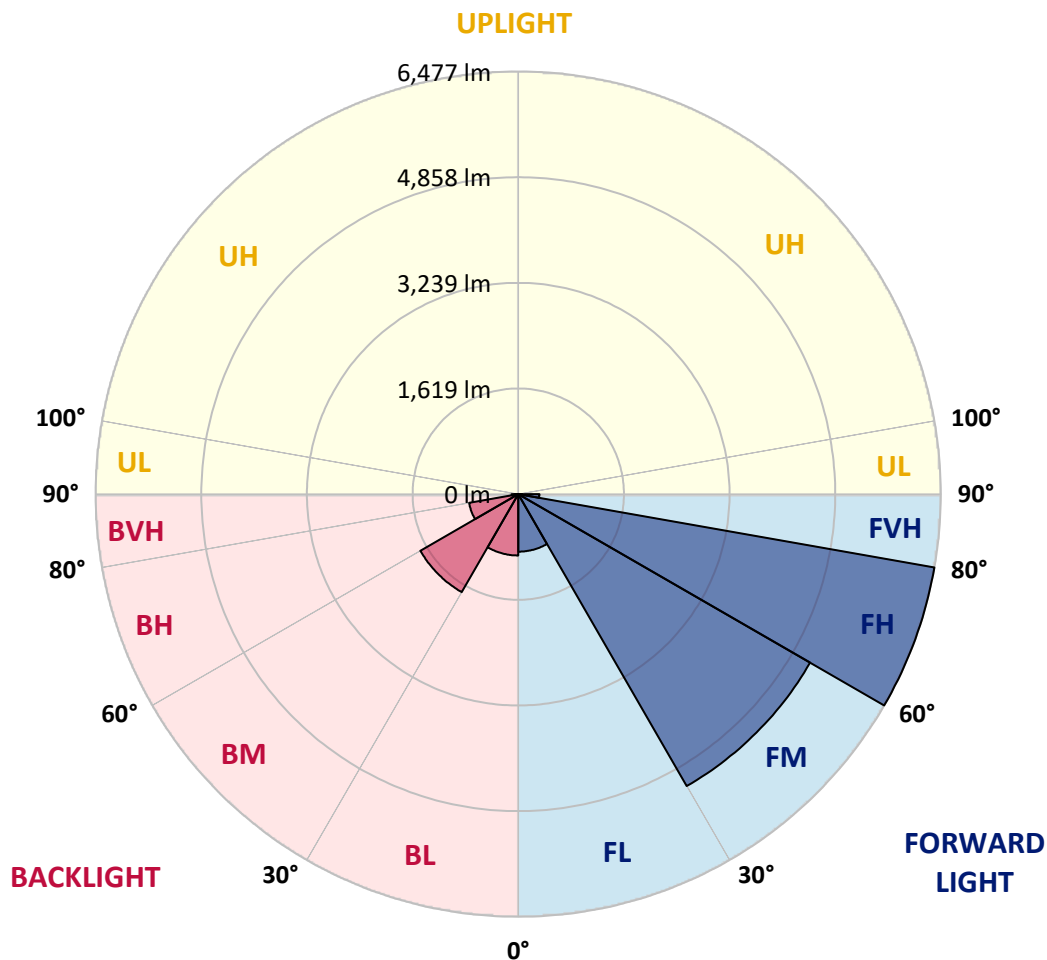
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	882.0	5.4			
FM (30°-60°)	5166.1	31.5			
FH (60°-80°)	6477.4	39.5			G3/7500
FVH (80°-90°)	323.6	2.0			G3/500
BL (0°-30°)	940.6	5.7	B2/1000		
BM (30°-60°)	1733.7	10.6	B2/2500		
BH (60°-80°)	764.4	4.7	B2/1000		G2/1000
BVH (80°-90°)	101.5	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	2349.7	2349.7	2349.7	2349.7	2349.7	2349.7	2349.7	2349.7	2349.7	2349.7	2349.7
2.5°	2105.4	2112.3	2134.8	2140.0	2164.3	2150.4	2179.9	2231.9	2261.3	2304.6	2356.6
5°	1939.0	1909.6	1923.4	1977.1	2004.9	2011.8	2043.0	2131.4	2186.8	2250.9	2348.0
7.5°	1743.2	1738.0	1765.7	1800.4	1855.8	1861.0	1930.3	2008.3	2122.7	2264.8	2379.1
10°	1609.8	1632.3	1647.9	1684.3	1722.4	1722.4	1810.8	1945.9	2075.9	2212.8	2386.1
12.5°	1602.8	1589.0	1592.5	1611.5	1639.2	1673.9	1757.1	1878.4	2043.0	2202.4	2415.5
15°	1625.4	1630.6	1599.4	1623.6	1634.0	1646.2	1738.0	1874.9	2022.2	2238.8	2465.8
17.5°	1744.9	1715.5	1667.0	1644.4	1680.8	1680.8	1743.2	1850.6	2025.7	2257.8	2538.6
20°	1838.5	1838.5	1758.8	1734.5	1760.5	1755.3	1798.7	1878.4	2043.0	2296.0	2620.0
22.5°	1996.2	2018.7	1887.0	1836.8	1835.0	1848.9	1887.0	1954.6	2091.5	2349.7	2698.0
25°	2223.2	2228.4	2075.9	2023.9	1968.5	1991.0	1997.9	2065.5	2134.8	2412.1	2786.4
27.5°	2476.2	2472.7	2332.4	2202.4	2166.0	2171.2	2133.1	2178.1	2198.9	2431.1	2912.9
30°	2756.9	2725.7	2620.0	2436.3	2406.9	2373.9	2290.8	2289.0	2332.4	2538.6	3087.9
32.5°	2940.6	2900.7	2827.9	2696.3	2614.8	2618.3	2486.6	2484.8	2446.7	2656.4	3240.4
35°	3120.8	3060.1	3041.1	2905.9	2824.5	2833.1	2727.4	2713.6	2644.3	2834.9	3491.6
37.5°	3337.4	3283.7	3313.1	3210.9	3110.4	3068.8	3020.3	3003.0	2912.9	3086.1	3834.7
40°	3576.5	3559.2	3540.1	3489.9	3429.2	3432.7	3380.7	3363.4	3230.0	3389.4	4163.9
42.5°	3898.8	3833.0	3734.2	3767.1	3798.3	3831.2	3813.9	3768.9	3630.2	3697.8	4531.3
45°	4198.6	4112.0	3930.0	3940.4	4068.6	4094.6	4304.3	4299.1	4020.1	4089.4	4948.9
47.5°	4401.3	4361.5	4252.3	4240.2	4423.9	4422.1	4799.9	4799.9	4430.8	4479.3	5397.7
50°	4702.8	4598.9	4552.1	4612.7	4706.3	4770.4	5305.9	5338.8	4834.5	4886.5	5985.1
52.5°	5056.3	4926.4	4808.5	4964.5	5130.8	5172.4	5806.6	5792.8	5144.7	5359.6	6673.0
55°	5349.2	5283.3	5201.9	5292.0	5564.0	5616.0	6309.2	6180.9	5454.9	5751.2	7004.0
57.5°	5690.5	5730.4	5747.7	5725.2	6049.2	6130.7	6882.7	6515.4	5721.7	6014.6	7198.1
60°	6205.2	6229.4	6252.0	6305.7	6648.8	6763.2	7336.7	6934.7	5889.8	6167.1	7213.7
62.5°	6988.4	6894.8	6945.1	7130.5	7406.0	7536.0	8005.6	7229.3	6018.0	6258.9	6704.2
65°	7884.3	7757.8	7705.8	7944.9	8658.8	8554.9	8840.8	7449.3	5832.6	5915.8	5685.3
67.5°	8792.3	8806.1	8672.7	9152.7	10027.8	10027.8	9617.1	7555.0	5330.1	4794.7	3987.2
70°	9513.1	9556.4	9629.2	10559.7	11946.0	12155.7	10578.8	7121.8	4306.0	3191.8	2179.9
72.5°	9502.7	9372.8	9745.3	11459.1	13689.2	13514.2	10779.8	5631.6	2687.6	1563.0	999.8
73°	9289.6	9180.4	9587.6	11450.4	13760.2	13595.6	10632.5	5191.5	2370.5	1355.1	888.9
75°	7586.2	7388.7	8081.8	10370.9	12730.9	12857.4	9033.1	3385.9	1299.6	835.2	625.5
77.5°	3458.7	3545.3	4448.1	6957.2	9811.2	9960.2	5938.3	1464.2	712.2	585.7	460.9
80°	1110.7	1166.2	1731.1	3458.7	6149.7	6418.3	2744.8	665.4	507.7	448.8	344.8
82.5°	424.5	422.8	726.0	1438.2	2914.6	3086.1	1003.3	405.5	377.8	331.0	244.3
85°	149.0	156.0	273.8	568.4	1147.1	1200.8	348.3	225.3	261.7	221.8	140.4
87.5°	52.0	53.7	97.0	206.2	395.1	417.6	97.0	90.1	130.0	128.2	71.0
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2349.7	2349.7	2349.7	2349.7	2349.7	2349.7	2349.7	2349.7	2349.7	2349.7	2349.7
2.5°	2373.9	2389.5	2394.7	2457.1	2457.1	2457.1	2481.4	2481.4	2474.5	2457.1	2498.7
5°	2384.3	2412.1	2465.8	2519.5	2533.4	2545.5	2578.4	2550.7	2561.1	2543.8	2559.4
7.5°	2413.8	2451.9	2552.4	2585.4	2562.8	2588.8	2554.2	2535.1	2516.0	2523.0	2498.7
10°	2464.1	2512.6	2559.4	2620.0	2576.7	2550.7	2479.6	2462.3	2401.7	2380.9	2399.9
12.5°	2526.4	2585.4	2665.1	2642.5	2559.4	2484.8	2408.6	2335.8	2299.4	2247.5	2261.3
15°	2588.8	2656.4	2668.5	2630.4	2526.4	2432.9	2294.2	2192.0	2155.6	2108.8	2133.1
17.5°	2656.4	2720.5	2699.7	2600.9	2460.6	2318.5	2160.8	2060.3	1984.1	1954.6	1954.6
20°	2756.9	2788.1	2755.2	2552.4	2380.9	2193.7	2041.2	1926.9	1850.6	1838.5	1819.4
22.5°	2834.9	2885.1	2737.8	2481.4	2264.8	2030.9	1855.8	1812.5	1790.0	1770.9	1746.7
25°	2935.4	2933.6	2706.6	2415.5	2065.5	1836.8	1731.1	1727.6	1717.2	1710.3	1743.2
27.5°	3030.7	2990.8	2670.3	2252.7	1859.3	1689.5	1632.3	1670.4	1686.0	1675.6	1689.5
30°	3181.4	3115.6	2618.3	2079.4	1677.4	1540.5	1550.9	1602.8	1628.8	1644.4	1623.6
32.5°	3340.9	3240.4	2510.8	1899.2	1516.2	1446.9	1471.2	1524.9	1556.1	1573.4	1592.5
35°	3571.3	3337.4	2401.7	1663.5	1400.1	1389.7	1403.6	1433.0	1478.1	1490.2	1495.4
37.5°	3855.5	3484.7	2254.4	1474.6	1310.0	1322.1	1336.0	1346.4	1348.1	1370.7	1362.0
40°	4139.7	3609.4	2039.5	1294.4	1216.4	1282.3	1275.3	1256.3	1240.7	1219.9	1214.7
42.5°	4389.2	3718.6	1800.4	1141.9	1133.3	1240.7	1218.2	1169.6	1133.3	1117.7	1091.7
45°	4669.9	3872.8	1559.5	1046.6	1069.1	1190.4	1183.5	1109.0	1062.2	1006.8	999.8
47.5°	5033.8	4034.0	1329.1	947.8	1008.5	1171.4	1174.8	1079.5	1012.0	937.4	927.1
50°	5499.9	4266.2	1154.1	906.3	972.1	1143.7	1148.9	1039.7	951.3	875.1	868.1
52.5°	5947.0	4503.6	1008.5	842.1	947.8	1110.7	1122.9	1003.3	901.1	805.8	811.0
55°	6172.3	4416.9	883.7	795.4	892.4	1057.0	1102.1	977.3	824.8	759.0	757.2
57.5°	6222.5	4203.8	785.0	746.8	845.6	999.8	1067.4	899.3	790.2	734.7	727.8
60°	6057.9	3831.2	707.0	694.9	786.7	940.9	987.7	857.7	755.5	710.5	700.1
62.5°	5652.4	3444.8	653.3	670.6	736.4	876.8	937.4	828.3	722.6	691.4	668.9
65°	4635.3	2833.1	609.9	623.8	684.5	814.4	906.3	795.4	693.1	663.7	661.9
67.5°	3210.9	1952.9	575.3	601.3	642.9	769.4	875.1	759.0	655.0	644.6	630.7
70°	1644.4	1041.4	530.2	551.0	597.8	712.2	819.6	720.8	615.1	613.4	596.1
72.5°	833.5	609.9	478.3	509.4	542.4	637.7	750.3	670.6	564.9	545.8	518.1
73°	720.8	564.9	469.6	497.3	528.5	616.9	729.5	658.5	558.0	530.2	504.2
75°	525.0	445.3	421.1	448.8	473.1	556.2	660.2	603.0	512.9	483.5	459.2
77.5°	393.3	343.1	350.0	381.2	402.0	480.0	587.4	545.8	464.4	424.5	414.1
80°	289.4	261.7	289.4	318.8	334.4	422.8	535.4	473.1	391.6	346.6	337.9
82.5°	206.2	190.6	223.5	242.6	249.5	350.0	481.7	377.8	296.3	237.4	218.3
85°	117.8	116.1	150.8	149.0	154.2	204.5	317.1	251.3	190.6	145.6	142.1
87.5°	52.0	57.2	76.2	60.6	64.1	97.0	135.2	93.6	78.0	43.3	32.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)