

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: P478294

Luminaire Tested: **IFLD-M-SA4B-827-U-T4FT**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P478294  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4B-827-U-T4FT  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens  
Light Source: (64) 2700K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

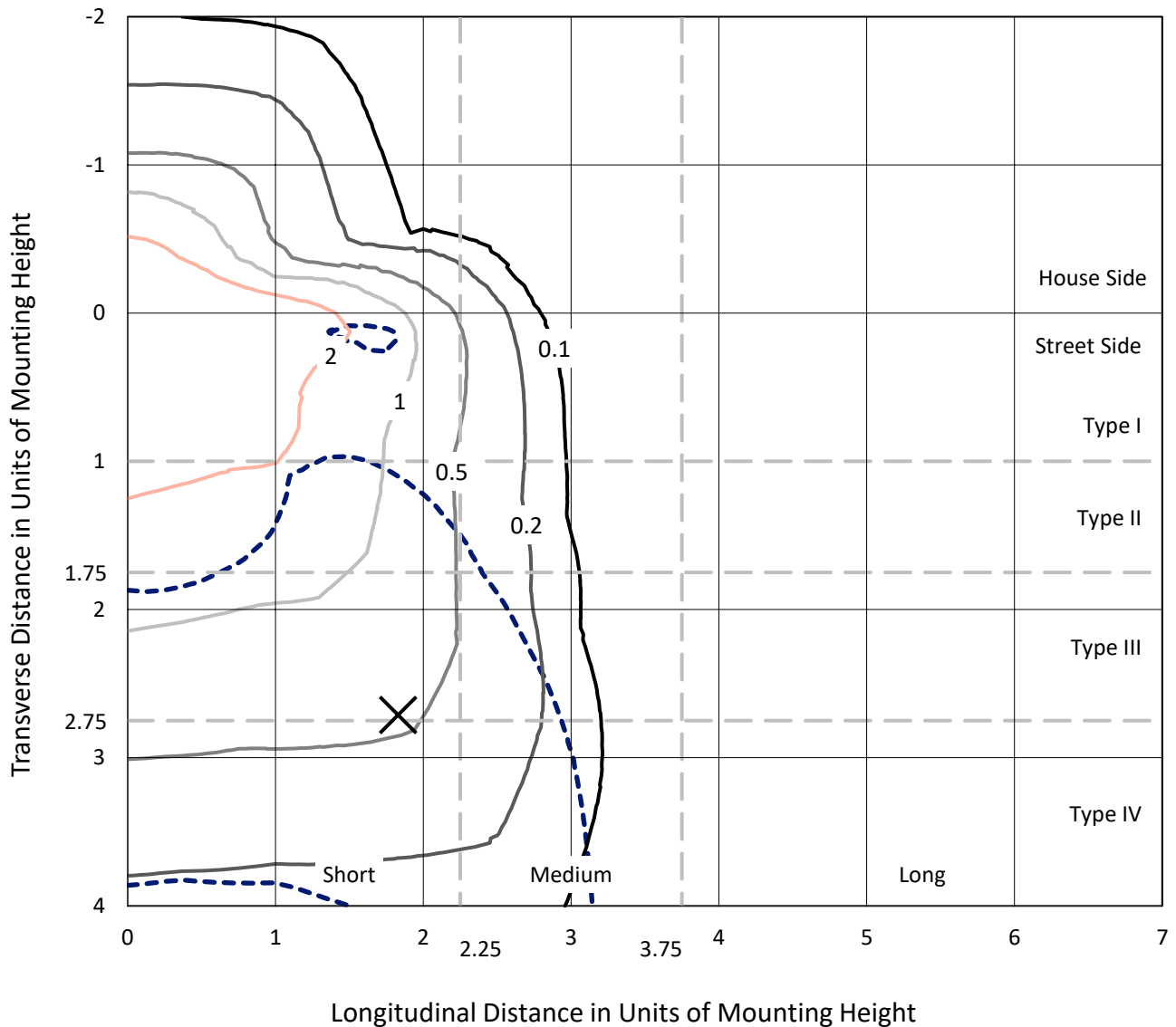
Lumens per Lamp: N/A  
Luminaire Lumens: 17200.5 lumens  
Efficiency: N/A  
Efficacy: 103.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3

Input Watts (W): 166.1  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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

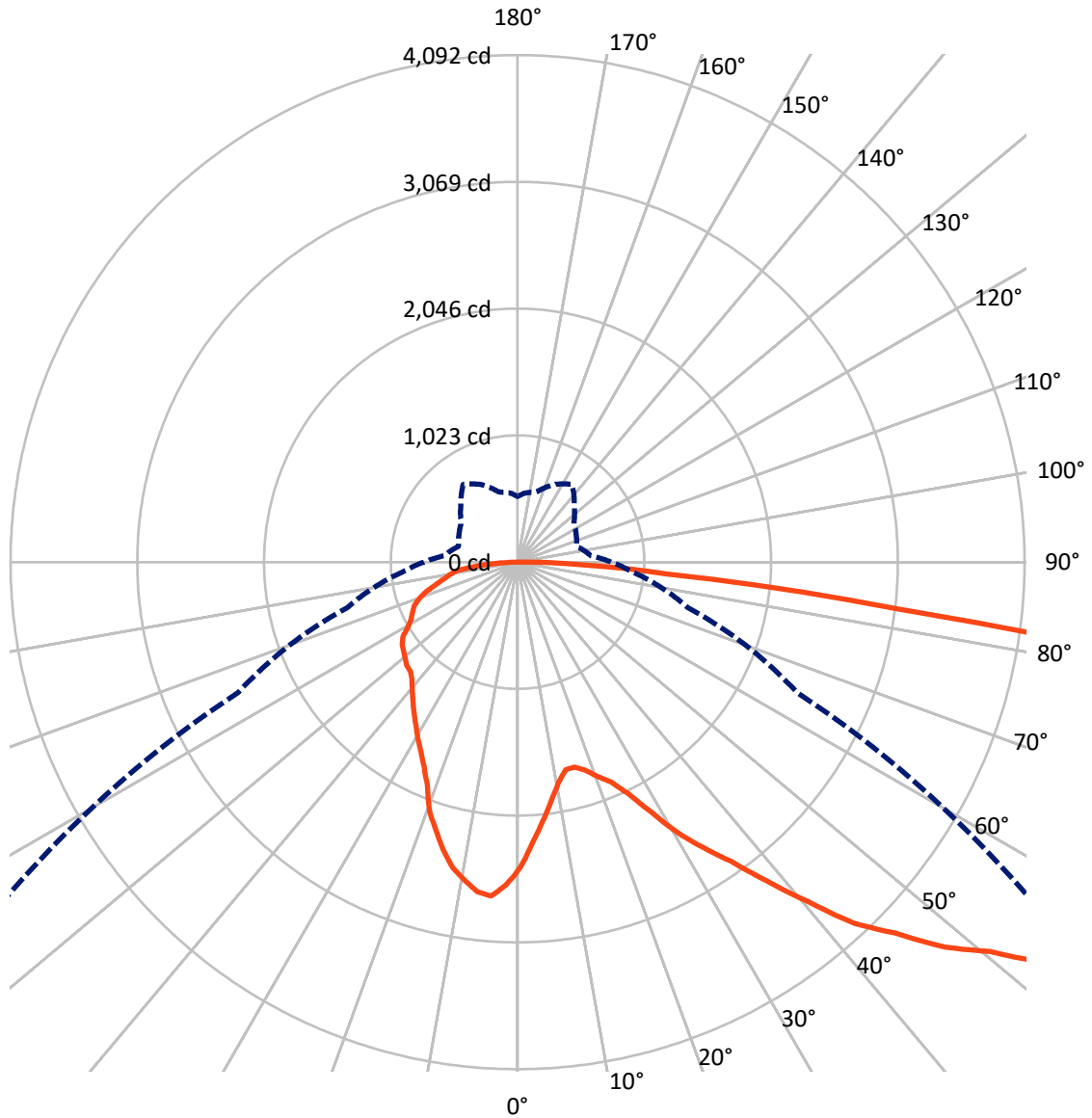
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 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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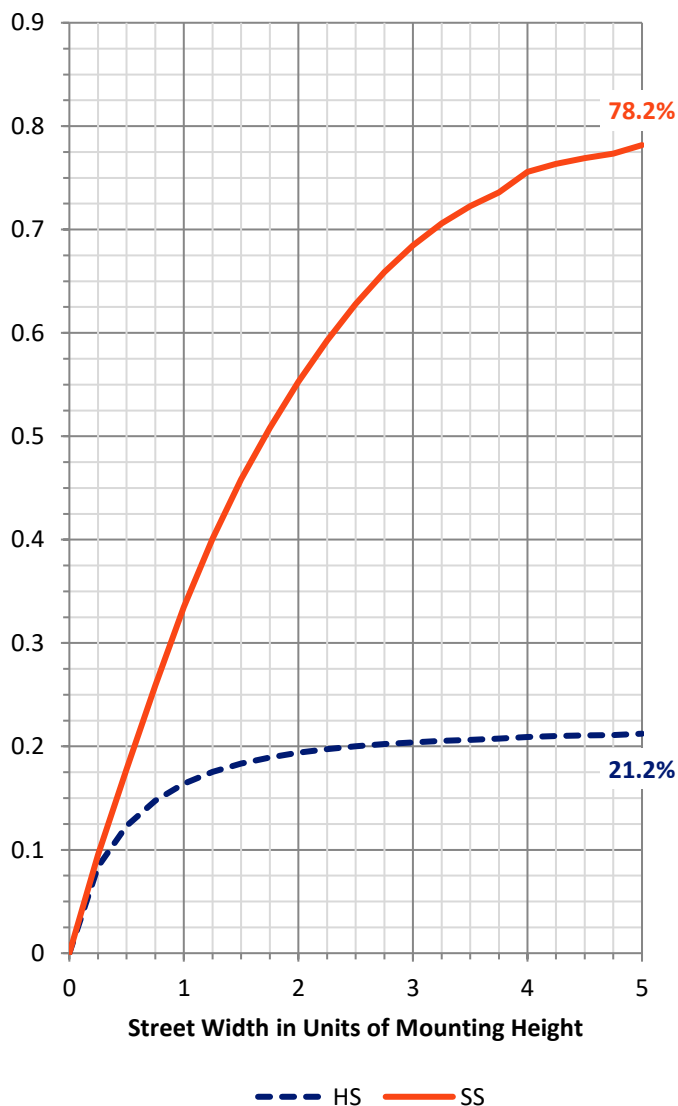
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3715.5	0.0	3715.5
	% Fixture	21.6	0.0	21.6
<b>Street Side</b>	Lumens	13485.0	0.0	13485.0
	% Fixture	78.4	0.0	78.4
<b>Total</b>	Lumens	17200.5	0.0	17200.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	227.6	1.3
10°-20°	636.9	3.7
20°-30°	1048.3	6.1
30°-40°	1567.8	9.1
40°-50°	2324.1	13.5
50°-60°	3349.3	19.5
60°-70°	4274.2	24.8
70°-80°	3326.0	19.3
80°-90°	446.2	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°	17200.5	100.0
0°-180°	17200.5	100.0

**Coefficient of Utilization**



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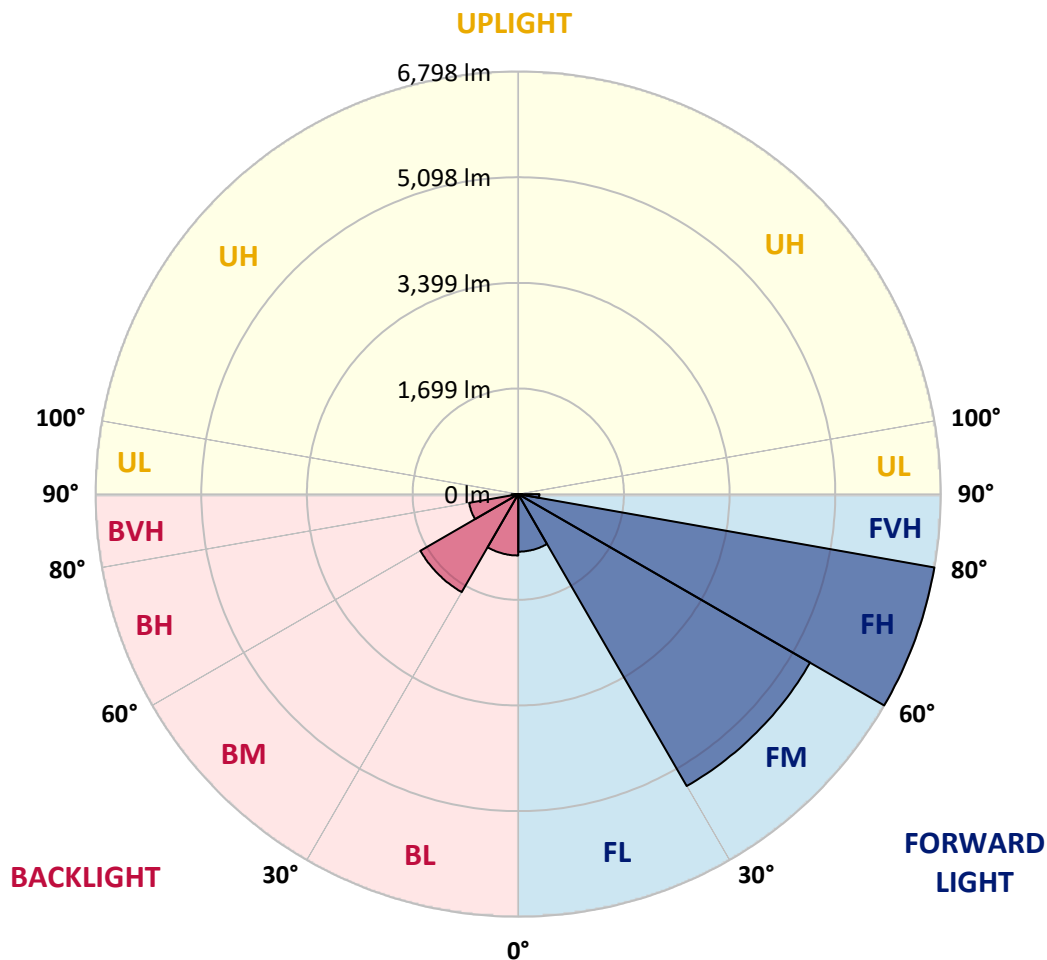
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	925.7	5.4			
FM (30°-60°)	5421.7	31.5			
FH (60°-80°)	6797.9	39.5			G3/7500
FVH (80°-90°)	339.6	2.0			G3/500
BL (0°-30°)	987.2	5.7	B2/1000		
BM (30°-60°)	1819.5	10.6	B2/2500		
BH (60°-80°)	802.3	4.7	B2/1000		G2/1000
BVH (80°-90°)	106.6	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°	2466.0	2466.0	2466.0	2466.0	2466.0	2466.0	2466.0	2466.0	2466.0	2466.0	2466.0
2.5°	2209.5	2216.8	2240.5	2245.9	2271.4	2256.8	2287.7	2342.3	2373.2	2418.7	2473.2
5°	2035.0	2004.0	2018.6	2075.0	2104.1	2111.3	2144.1	2236.8	2295.0	2362.3	2464.1
7.5°	1829.5	1824.0	1853.1	1889.5	1947.7	1953.1	2025.9	2107.7	2227.7	2376.8	2496.9
10°	1689.4	1713.1	1729.4	1767.6	1807.6	1807.6	1900.4	2042.2	2178.6	2322.3	2504.1
12.5°	1682.2	1667.6	1671.2	1691.3	1720.4	1756.7	1844.0	1971.3	2144.1	2311.4	2535.1
15°	1705.8	1711.3	1678.5	1704.0	1714.9	1727.6	1824.0	1967.7	2122.3	2349.6	2587.8
17.5°	1831.3	1800.4	1749.4	1725.8	1764.0	1764.0	1829.5	1942.2	2125.9	2369.6	2664.2
20°	1929.5	1929.5	1845.8	1820.4	1847.6	1842.2	1887.7	1971.3	2144.1	2409.6	2749.7
22.5°	2095.0	2118.6	1980.4	1927.7	1925.8	1940.4	1980.4	2051.3	2195.0	2466.0	2831.5
25°	2333.2	2338.7	2178.6	2124.1	2065.9	2089.5	2096.8	2167.7	2240.5	2531.4	2924.2
27.5°	2598.7	2595.1	2447.8	2311.4	2273.2	2278.6	2238.6	2285.9	2307.7	2551.4	3057.0
30°	2893.3	2860.6	2749.7	2556.9	2526.0	2491.4	2404.1	2402.3	2447.8	2664.2	3240.7
32.5°	3086.1	3044.3	2967.9	2829.7	2744.2	2747.8	2609.6	2607.8	2567.8	2787.8	3400.7
35°	3275.2	3211.6	3191.6	3049.7	2964.2	2973.3	2862.4	2847.9	2775.1	2975.2	3664.4
37.5°	3502.5	3446.2	3477.1	3369.8	3264.3	3220.7	3169.7	3151.6	3057.0	3238.8	4024.5
40°	3753.5	3735.3	3715.3	3662.6	3598.9	3602.6	3548.0	3529.8	3389.8	3557.1	4370.0
42.5°	4091.7	4022.6	3919.0	3953.5	3986.3	4020.8	4002.6	3955.4	3809.9	3880.8	4755.5
45°	4406.4	4315.4	4124.5	4135.4	4270.0	4297.2	4517.3	4511.8	4219.0	4291.8	5193.8
47.5°	4619.1	4577.3	4462.7	4450.0	4642.8	4640.9	5037.4	5037.4	4650.0	4701.0	5664.8
50°	4935.6	4826.4	4777.3	4841.0	4939.2	5006.5	5568.4	5603.0	5073.8	5128.3	6281.3
52.5°	5306.5	5170.1	5046.5	5210.2	5384.7	5428.4	6094.0	6079.4	5399.3	5624.8	7003.2
55°	5613.9	5544.8	5459.3	5553.9	5839.4	5893.9	6621.3	6486.8	5724.8	6035.8	7350.6
57.5°	5972.1	6014.0	6032.1	6008.5	6348.6	6434.0	7223.3	6837.8	6004.9	6312.2	7554.3
60°	6512.2	6537.7	6561.3	6617.7	6977.8	7097.8	7699.8	7277.8	6181.3	6472.2	7570.6
62.5°	7334.2	7236.0	7288.8	7483.3	7772.5	7908.9	8401.7	7587.0	6315.8	6568.6	7036.0
65°	8274.4	8141.7	8087.1	8338.1	9087.3	8978.2	9278.3	7818.0	6121.2	6208.5	5966.7
67.5°	9227.3	9241.9	9101.9	9605.6	10524.0	10524.0	10093.0	7928.9	5593.9	5031.9	4184.5
70°	9983.9	10029.3	10105.7	11082.3	12537.1	12757.1	11102.3	7474.3	4519.1	3349.8	2287.7
72.5°	9972.9	9836.6	10227.5	12026.1	14366.6	14182.9	11313.2	5910.3	2820.6	1640.3	1049.3
73°	9749.3	9634.7	10062.1	12017.0	14441.1	14268.4	11158.6	5448.4	2487.8	1422.1	932.9
75°	7961.6	7754.3	8481.7	10884.0	13360.9	13493.7	9480.1	3553.5	1363.9	876.5	656.5
77.5°	3629.8	3720.8	4668.2	7301.5	10296.6	10453.0	6232.2	1536.7	747.4	614.7	483.7
80°	1165.7	1223.9	1816.7	3629.8	6454.0	6735.9	2880.6	698.3	532.8	471.0	361.9
82.5°	445.5	443.7	762.0	1509.4	3058.8	3238.8	1052.9	425.5	396.4	347.3	256.4
85°	156.4	163.7	287.3	596.5	1203.9	1260.3	365.5	236.4	274.6	232.8	147.3
87.5°	54.6	56.4	101.8	216.4	414.6	438.3	101.8	94.6	136.4	134.6	74.6
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°	2466.0	2466.0	2466.0	2466.0	2466.0	2466.0	2466.0	2466.0	2466.0	2466.0	2466.0
2.5°	2491.4	2507.8	2513.2	2578.7	2578.7	2578.7	2604.2	2604.2	2596.9	2578.7	2622.4
5°	2502.3	2531.4	2587.8	2644.2	2658.7	2671.5	2706.0	2676.9	2687.8	2669.6	2686.0
7.5°	2533.2	2573.3	2678.7	2713.3	2689.6	2716.9	2680.5	2660.5	2640.5	2647.8	2622.4
10°	2586.0	2636.9	2686.0	2749.7	2704.2	2676.9	2602.3	2584.2	2520.5	2498.7	2518.7
12.5°	2651.4	2713.3	2796.9	2773.3	2686.0	2607.8	2527.8	2451.4	2413.2	2358.7	2373.2
15°	2716.9	2787.8	2800.6	2760.6	2651.4	2553.2	2407.8	2300.5	2262.3	2213.2	2238.6
17.5°	2787.8	2855.1	2833.3	2729.6	2582.3	2433.2	2267.7	2162.3	2082.2	2051.3	2051.3
20°	2893.3	2926.1	2891.5	2678.7	2498.7	2302.3	2142.3	2022.2	1942.2	1929.5	1909.5
22.5°	2975.2	3027.9	2873.3	2604.2	2376.8	2131.3	1947.7	1902.2	1878.6	1858.6	1833.1
25°	3080.6	3078.8	2840.6	2535.1	2167.7	1927.7	1816.7	1813.1	1802.2	1794.9	1829.5
27.5°	3180.6	3138.8	2802.4	2364.1	1951.3	1773.1	1713.1	1753.1	1769.5	1758.5	1773.1
30°	3338.9	3269.8	2747.8	2182.3	1760.4	1616.7	1627.6	1682.2	1709.4	1725.8	1704.0
32.5°	3506.2	3400.7	2635.1	1993.1	1591.2	1518.5	1544.0	1600.3	1633.1	1651.2	1671.2
35°	3748.0	3502.5	2520.5	1745.8	1469.4	1458.5	1473.0	1503.9	1551.2	1564.0	1569.4
37.5°	4046.3	3657.1	2365.9	1547.6	1374.8	1387.6	1402.1	1413.0	1414.8	1438.5	1429.4
40°	4344.5	3788.0	2140.4	1358.5	1276.6	1345.7	1338.5	1318.5	1302.1	1280.3	1274.8
42.5°	4606.4	3902.6	1889.5	1198.4	1189.3	1302.1	1278.4	1227.5	1189.3	1173.0	1145.7
45°	4901.0	4064.5	1636.7	1098.4	1122.0	1249.3	1242.1	1163.9	1114.8	1056.6	1049.3
47.5°	5282.9	4233.6	1394.8	994.7	1058.4	1229.3	1233.0	1133.0	1062.0	983.8	972.9
50°	5772.1	4477.3	1211.2	951.1	1020.2	1200.2	1205.7	1091.1	998.4	918.4	911.1
52.5°	6241.3	4726.4	1058.4	883.8	994.7	1165.7	1178.4	1052.9	945.6	845.6	851.1
55°	6477.7	4635.5	927.5	834.7	936.6	1109.3	1156.6	1025.7	865.6	796.5	794.7
57.5°	6530.4	4411.8	823.8	783.8	887.5	1049.3	1120.2	943.8	829.3	771.1	763.8
60°	6357.7	4020.8	742.0	729.2	825.6	987.5	1036.6	900.2	792.9	745.6	734.7
62.5°	5932.1	3615.3	685.6	703.8	772.9	920.2	983.8	869.3	758.3	725.6	702.0
65°	4864.6	2973.3	640.1	654.7	718.3	854.7	951.1	834.7	727.4	696.5	694.7
67.5°	3369.8	2049.5	603.8	631.0	674.7	807.4	918.4	796.5	687.4	676.5	662.0
70°	1725.8	1093.0	556.5	578.3	627.4	747.4	860.2	756.5	645.6	643.8	625.6
72.5°	874.7	640.1	501.9	534.7	569.2	669.2	787.4	703.8	592.8	572.8	543.7
73°	756.5	592.8	492.8	521.9	554.7	647.4	765.6	691.0	585.6	556.5	529.2
75°	551.0	467.4	441.9	471.0	496.5	583.8	692.9	632.9	538.3	507.4	481.9
77.5°	412.8	360.1	367.3	400.1	421.9	503.7	616.5	572.8	487.4	445.5	434.6
80°	303.7	274.6	303.7	334.6	351.0	443.7	561.9	496.5	411.0	363.7	354.6
82.5°	216.4	200.0	234.6	254.6	261.9	367.3	505.6	396.4	311.0	249.1	229.1
85°	123.7	121.8	158.2	156.4	161.9	214.6	332.8	263.7	200.0	152.8	149.1
87.5°	54.6	60.0	80.0	63.6	67.3	101.8	141.8	98.2	81.8	45.5	34.6
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)