

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: P478272

Luminaire Tested: **IFLD-S-SA2E-827-U-T4FT**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478272  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2E-827-U-T4FT  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens  
Light Source: (32) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

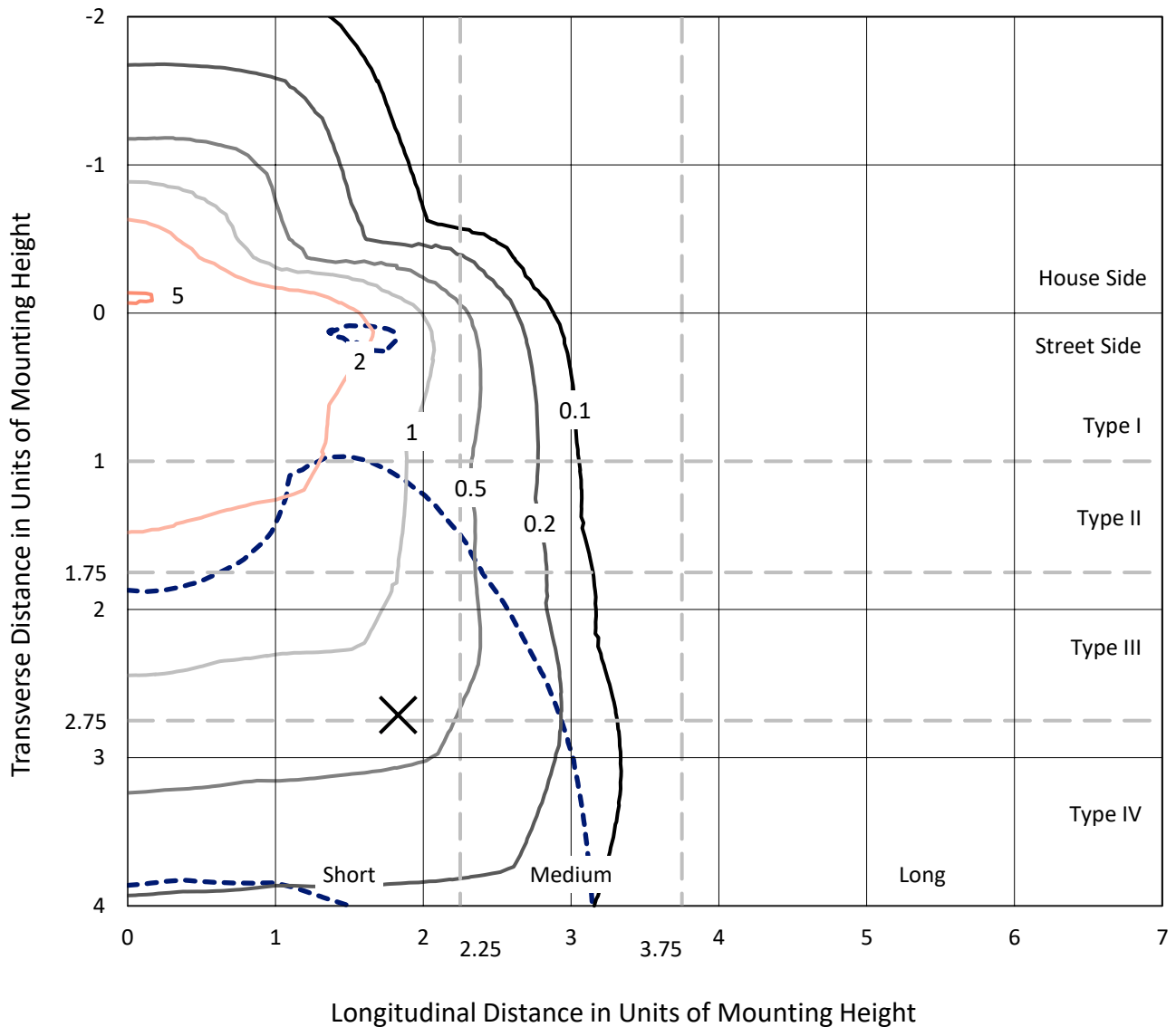
Lumens per Lamp: N/A  
Luminaire Lumens: 13630.7 lumens  
Efficiency: N/A  
Efficacy: 87.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3

Input Watts (W): 156.2  
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

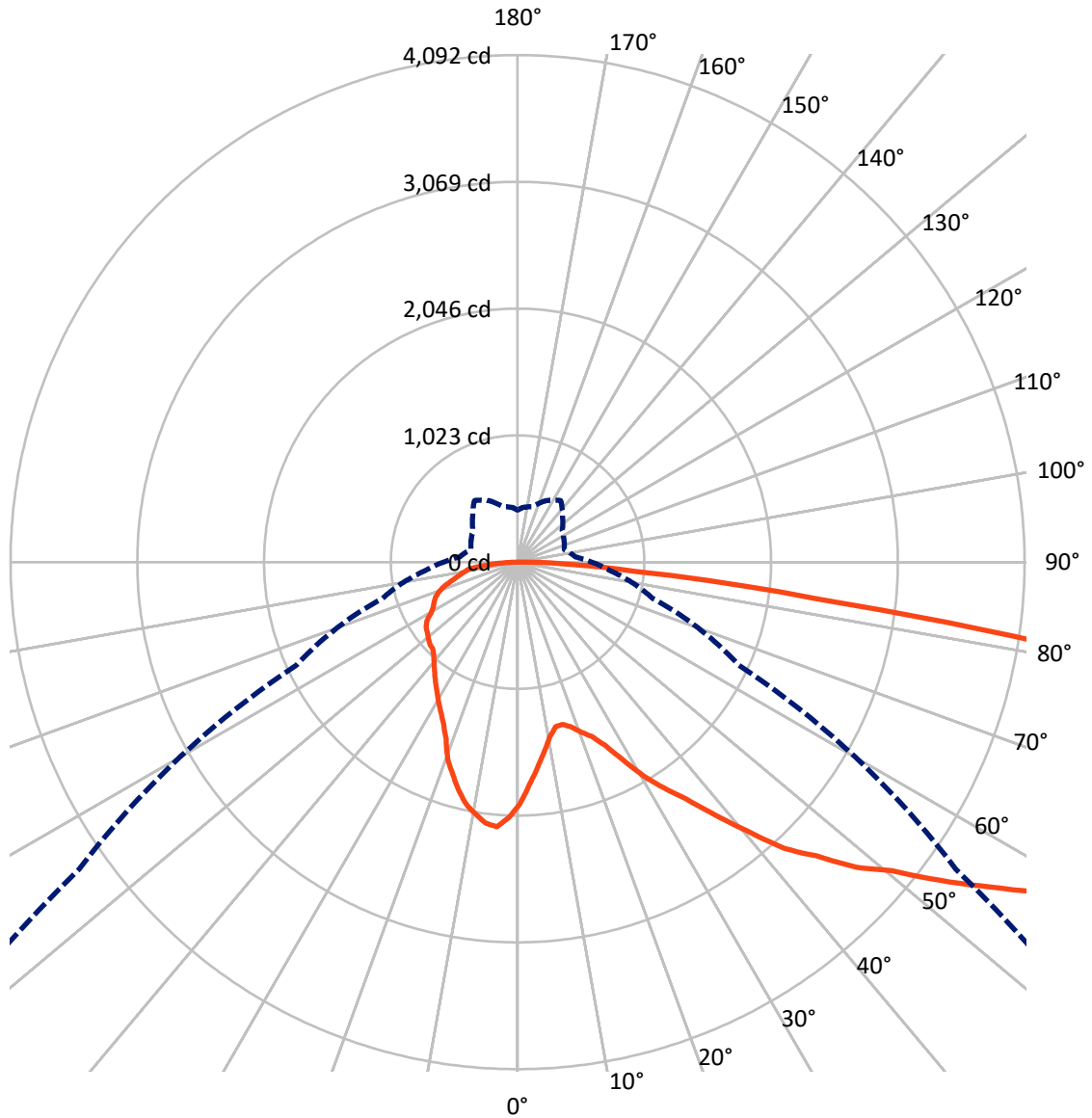
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.1 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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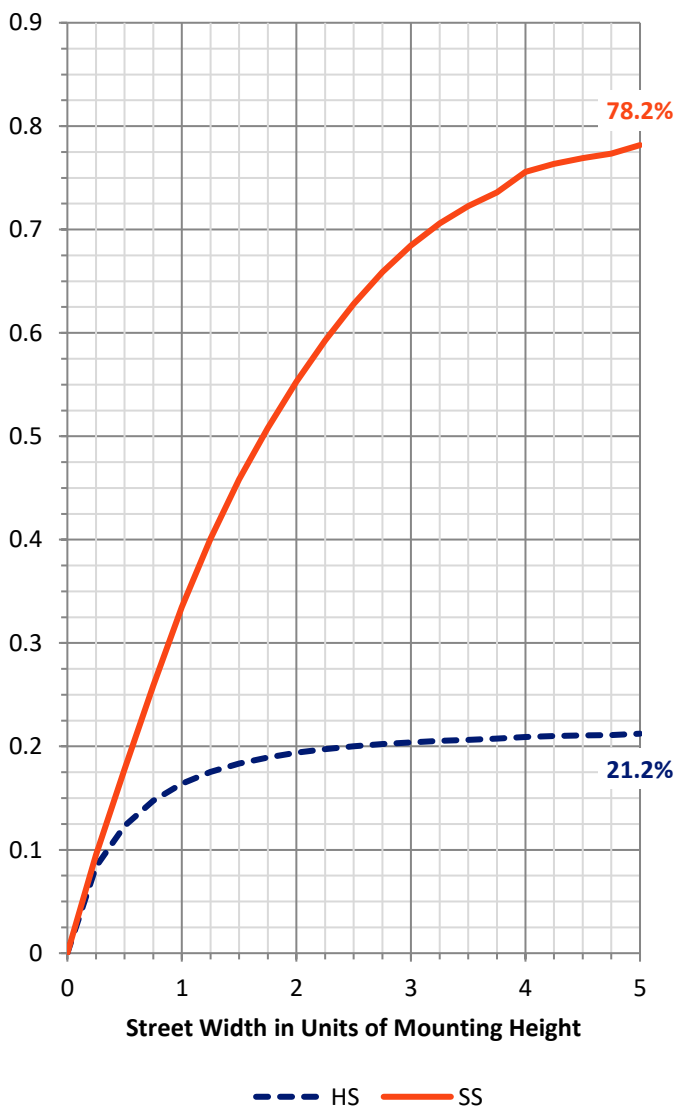
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2944.4	0.0	2944.4
	% Fixture	21.6	0.0	21.6
<b>Street Side</b>	Lumens	10686.3	0.0	10686.3
	% Fixture	78.4	0.0	78.4
<b>Total</b>	Lumens	13630.7	0.0	13630.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	180.4	1.3
10°-20°	504.8	3.7
20°-30°	830.8	6.1
30°-40°	1242.4	9.1
40°-50°	1841.8	13.5
50°-60°	2654.2	19.5
60°-70°	3387.1	24.8
70°-80°	2635.7	19.3
80°-90°	353.6	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°	13630.7	100.0
0°-180°	13630.7	100.0

**Coefficient of Utilization**



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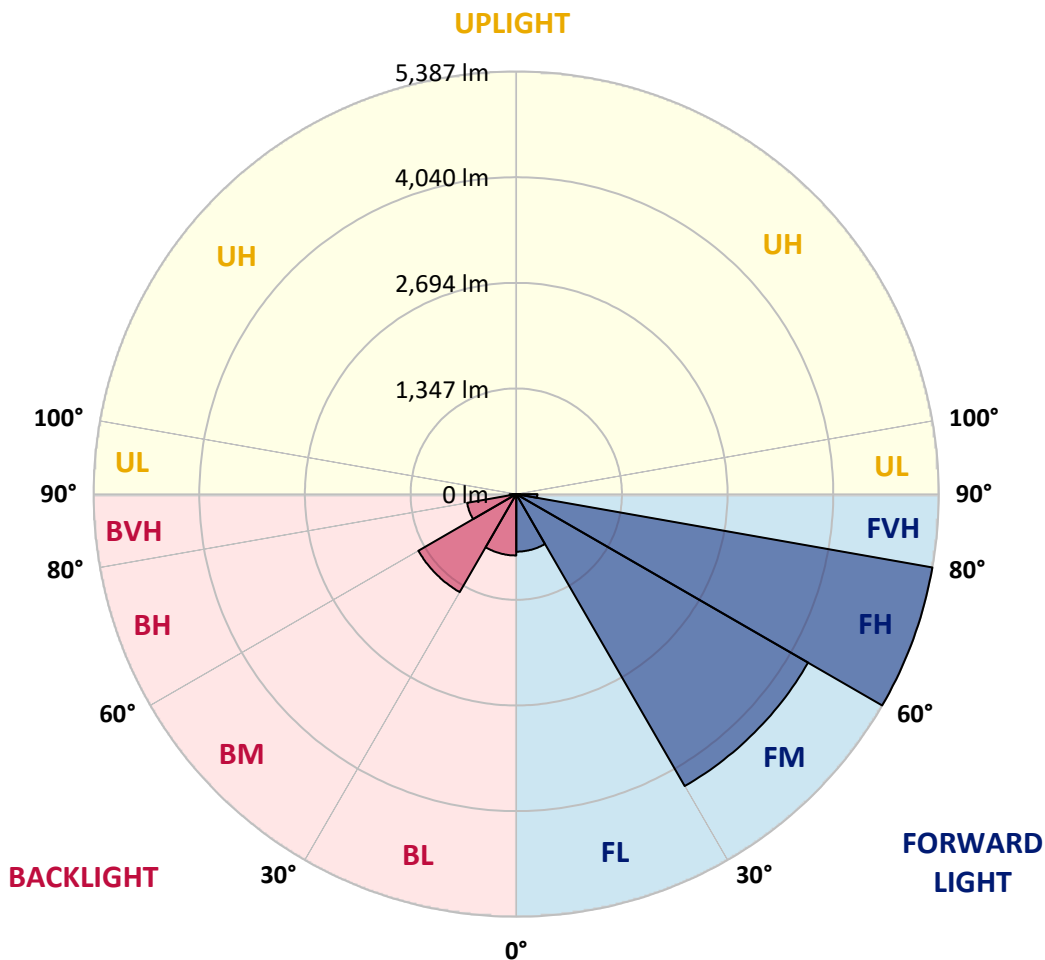
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	733.6	5.4			
FM	(30°-60°)	4296.5	31.5			
FH	(60°-80°)	5387.1	39.5			G3/7500
FVH	(80°-90°)	269.2	2.0			G3/500
BL	(0°-30°)	782.3	5.7	B2/1000		
BM	(30°-60°)	1441.9	10.6	B2/2500		
BH	(60°-80°)	635.8	4.7	B2/1000		G2/1000
BVH	(80°-90°)	84.4	0.6			G1/100
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°	1954.2	1954.2	1954.2	1954.2	1954.2	1954.2	1954.2	1954.2	1954.2	1954.2	1954.2
2.5°	1751.0	1756.7	1775.5	1779.8	1800.0	1788.4	1812.9	1856.2	1880.7	1916.7	1959.9
5°	1612.6	1588.1	1599.7	1644.3	1667.4	1673.2	1699.1	1772.6	1818.7	1872.0	1952.7
7.5°	1449.8	1445.5	1468.5	1497.3	1543.5	1547.8	1605.4	1670.3	1765.4	1883.6	1978.7
10°	1338.8	1357.5	1370.5	1400.8	1432.5	1432.5	1506.0	1618.4	1726.5	1840.3	1984.4
12.5°	1333.0	1321.5	1324.4	1340.3	1363.3	1392.1	1461.3	1562.2	1699.1	1831.7	2008.9
15°	1351.8	1356.1	1330.2	1350.3	1359.0	1369.1	1445.5	1559.3	1681.8	1861.9	2050.7
17.5°	1451.2	1426.7	1386.4	1367.6	1397.9	1397.9	1449.8	1539.1	1684.7	1877.8	2111.3
20°	1529.0	1529.0	1462.7	1442.6	1464.2	1459.9	1495.9	1562.2	1699.1	1909.5	2179.0
22.5°	1660.2	1678.9	1569.4	1527.6	1526.2	1537.7	1569.4	1625.6	1739.4	1954.2	2243.8
25°	1849.0	1853.3	1726.5	1683.2	1637.1	1655.9	1661.6	1717.8	1775.5	2006.1	2317.3
27.5°	2059.4	2056.5	1939.8	1831.7	1801.4	1805.7	1774.0	1811.5	1828.8	2021.9	2422.5
30°	2292.8	2266.9	2179.0	2026.2	2001.7	1974.4	1905.2	1903.7	1939.8	2111.3	2568.1
32.5°	2445.6	2412.5	2351.9	2242.4	2174.7	2177.6	2068.0	2066.6	2034.9	2209.3	2694.9
35°	2595.5	2545.0	2529.2	2416.8	2349.0	2356.3	2268.3	2256.8	2199.2	2357.7	2903.9
37.5°	2775.6	2730.9	2755.4	2670.4	2586.8	2552.2	2511.9	2497.5	2422.5	2566.7	3189.2
40°	2974.5	2960.1	2944.2	2902.4	2852.0	2854.9	2811.6	2797.2	2686.3	2818.9	3463.0
42.5°	3242.5	3187.8	3105.6	3133.0	3159.0	3186.3	3171.9	3134.5	3019.2	3075.4	3768.6
45°	3491.9	3419.8	3268.5	3277.1	3383.8	3405.4	3579.8	3575.4	3343.4	3401.1	4115.9
47.5°	3660.5	3627.3	3536.5	3526.4	3679.2	3677.8	3991.9	3991.9	3685.0	3725.3	4489.1
50°	3911.2	3824.8	3785.9	3836.3	3914.1	3967.4	4412.7	4440.1	4020.8	4064.0	4977.7
52.5°	4205.2	4097.1	3999.1	4128.8	4267.2	4301.8	4829.2	4817.7	4278.7	4457.4	5549.8
55°	4448.8	4394.0	4326.3	4401.2	4627.5	4670.7	5247.2	5140.5	4536.7	4783.1	5825.1
57.5°	4732.7	4765.8	4780.2	4761.5	5031.0	5098.7	5724.2	5418.7	4758.6	5002.2	5986.5
60°	5160.7	5180.9	5199.6	5244.3	5529.6	5624.7	6101.8	5767.4	4898.4	5129.0	5999.4
62.5°	5812.1	5734.3	5776.1	5930.3	6159.4	6267.5	6658.0	6012.4	5005.1	5205.4	5575.7
65°	6557.1	6451.9	6408.7	6607.6	7201.3	7114.9	7352.7	6195.4	4850.8	4920.0	4728.4
67.5°	7312.3	7323.8	7212.9	7612.1	8339.8	8339.8	7998.3	6283.3	4432.9	3987.6	3316.0
70°	7911.8	7947.8	8008.4	8782.3	9935.2	10109.5	8798.1	5923.1	3581.2	2654.6	1812.9
72.5°	7903.2	7795.1	8104.9	9530.2	11384.9	11239.4	8965.3	4683.7	2235.2	1299.9	831.5
73°	7725.9	7635.1	7973.8	9523.0	11444.0	11307.1	8842.8	4317.6	1971.5	1127.0	739.3
75°	6309.3	6145.0	6721.4	8625.2	10588.0	10693.2	7512.6	2816.0	1080.8	694.6	520.2
77.5°	2876.5	2948.6	3699.4	5786.1	8159.7	8283.6	4938.8	1217.8	592.3	487.1	383.3
80°	923.8	969.9	1439.7	2876.5	5114.6	5338.0	2282.8	553.4	422.3	373.3	286.8
82.5°	353.1	351.6	603.8	1196.1	2424.0	2566.7	834.4	337.2	314.2	275.3	203.2
85°	123.9	129.7	227.7	472.7	954.0	998.7	289.7	187.3	217.6	184.5	116.7
87.5°	43.2	44.7	80.7	171.5	328.6	347.3	80.7	74.9	108.1	106.6	59.1
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°	1954.2	1954.2	1954.2	1954.2	1954.2	1954.2	1954.2	1954.2	1954.2	1954.2	1954.2
2.5°	1974.4	1987.3	1991.6	2043.5	2043.5	2043.5	2063.7	2063.7	2057.9	2043.5	2078.1
5°	1983.0	2006.1	2050.7	2095.4	2106.9	2117.0	2144.4	2121.3	2130.0	2115.6	2128.6
7.5°	2007.5	2039.2	2122.8	2150.2	2131.4	2153.1	2124.2	2108.4	2092.5	2098.3	2078.1
10°	2049.3	2089.6	2128.6	2179.0	2143.0	2121.3	2062.3	2047.8	1997.4	1980.1	1996.0
12.5°	2101.2	2150.2	2216.5	2197.7	2128.6	2066.6	2003.2	1942.6	1912.4	1869.1	1880.7
15°	2153.1	2209.3	2219.3	2187.6	2101.2	2023.3	1908.1	1823.0	1792.8	1753.9	1774.0
17.5°	2209.3	2262.6	2245.3	2163.1	2046.4	1928.2	1797.1	1713.5	1650.1	1625.6	1625.6
20°	2292.8	2318.8	2291.4	2122.8	1980.1	1824.5	1697.7	1602.5	1539.1	1529.0	1513.2
22.5°	2357.7	2399.5	2277.0	2063.7	1883.6	1689.0	1543.5	1507.4	1488.7	1472.8	1452.7
25°	2441.3	2439.8	2251.0	2008.9	1717.8	1527.6	1439.7	1436.8	1428.2	1422.4	1449.8
27.5°	2520.5	2487.4	2220.8	1873.5	1546.3	1405.1	1357.5	1389.3	1402.2	1393.6	1405.1
30°	2645.9	2591.2	2177.6	1729.4	1395.0	1281.2	1289.8	1333.0	1354.7	1367.6	1350.3
32.5°	2778.5	2694.9	2088.2	1579.5	1261.0	1203.3	1223.5	1268.2	1294.1	1308.5	1324.4
35°	2970.2	2775.6	1997.4	1383.5	1164.4	1155.8	1167.3	1191.8	1229.3	1239.4	1243.7
37.5°	3206.5	2898.1	1874.9	1226.4	1089.5	1099.6	1111.1	1119.8	1121.2	1139.9	1132.7
40°	3442.9	3001.9	1696.2	1076.5	1011.7	1066.4	1060.7	1044.8	1031.9	1014.6	1010.2
42.5°	3650.4	3092.7	1497.3	949.7	942.5	1031.9	1013.1	972.8	942.5	929.5	907.9
45°	3883.9	3220.9	1297.0	870.4	889.2	990.1	984.3	922.3	883.4	837.3	831.5
47.5°	4186.5	3355.0	1105.3	788.3	838.7	974.2	977.1	897.8	841.6	779.7	771.0
50°	4574.2	3548.1	959.8	753.7	808.5	951.1	955.5	864.7	791.2	727.8	722.0
52.5°	4946.0	3745.5	838.7	700.4	788.3	923.8	933.9	834.4	749.4	670.1	674.4
55°	5133.3	3673.4	735.0	661.5	742.2	879.1	916.6	812.8	686.0	631.2	629.8
57.5°	5175.1	3496.2	652.8	621.1	703.3	831.5	887.7	747.9	657.2	611.0	605.3
60°	5038.2	3186.3	588.0	577.9	654.3	782.5	821.4	713.4	628.3	590.9	582.2
62.5°	4701.0	2865.0	543.3	557.7	612.5	729.2	779.7	688.9	601.0	575.0	556.3
65°	3855.0	2356.3	507.3	518.8	569.2	677.3	753.7	661.5	576.5	552.0	550.5
67.5°	2670.4	1624.2	478.5	500.1	534.7	639.9	727.8	631.2	544.7	536.1	524.6
70°	1367.6	866.1	441.0	458.3	497.2	592.3	681.7	599.5	511.6	510.2	495.7
72.5°	693.2	507.3	397.8	423.7	451.1	530.3	624.0	557.7	469.8	454.0	430.9
73°	599.5	469.8	390.5	413.6	439.5	513.0	606.7	547.6	464.0	441.0	419.4
75°	436.7	370.4	350.2	373.3	393.4	462.6	549.1	501.5	426.6	402.1	381.9
77.5°	327.1	285.3	291.1	317.0	334.3	399.2	488.5	454.0	386.2	353.1	344.4
80°	240.7	217.6	240.7	265.2	278.1	351.6	445.3	393.4	325.7	288.2	281.0
82.5°	171.5	158.5	185.9	201.8	207.5	291.1	400.6	314.2	246.4	197.4	181.6
85°	98.0	96.6	125.4	123.9	128.3	170.1	263.7	209.0	158.5	121.1	118.2
87.5°	43.2	47.6	63.4	50.4	53.3	80.7	112.4	77.8	64.9	36.0	27.4
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)