

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: P476712

Luminaire Tested: **IFLD-S-SA2E-827-U-T2**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P476712  
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-T2  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens  
Light Source: (32) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

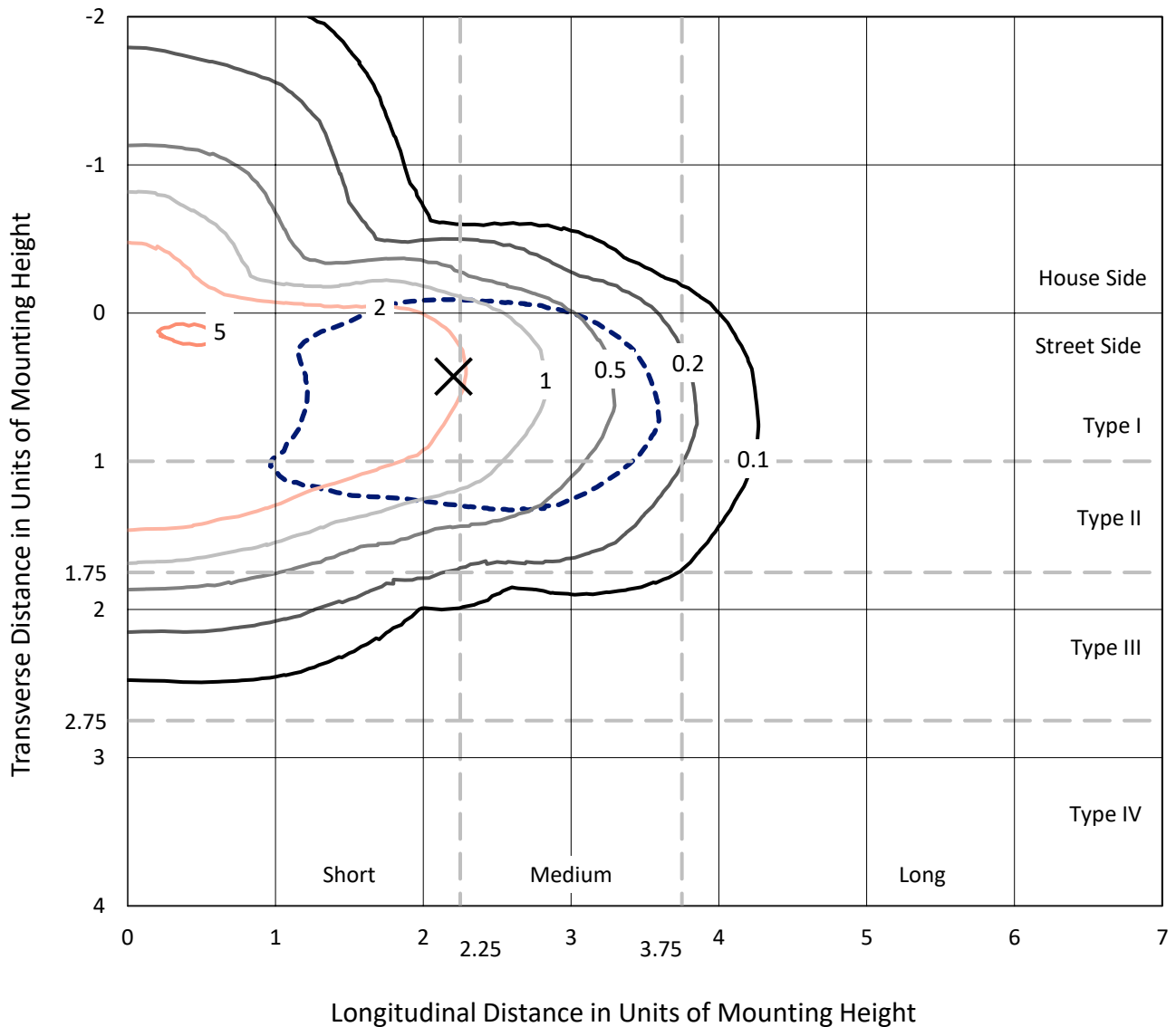
Lumens per Lamp: N/A  
Luminaire Lumens: 13288.8 lumens  
Efficiency: N/A  
Efficacy: 85.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

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

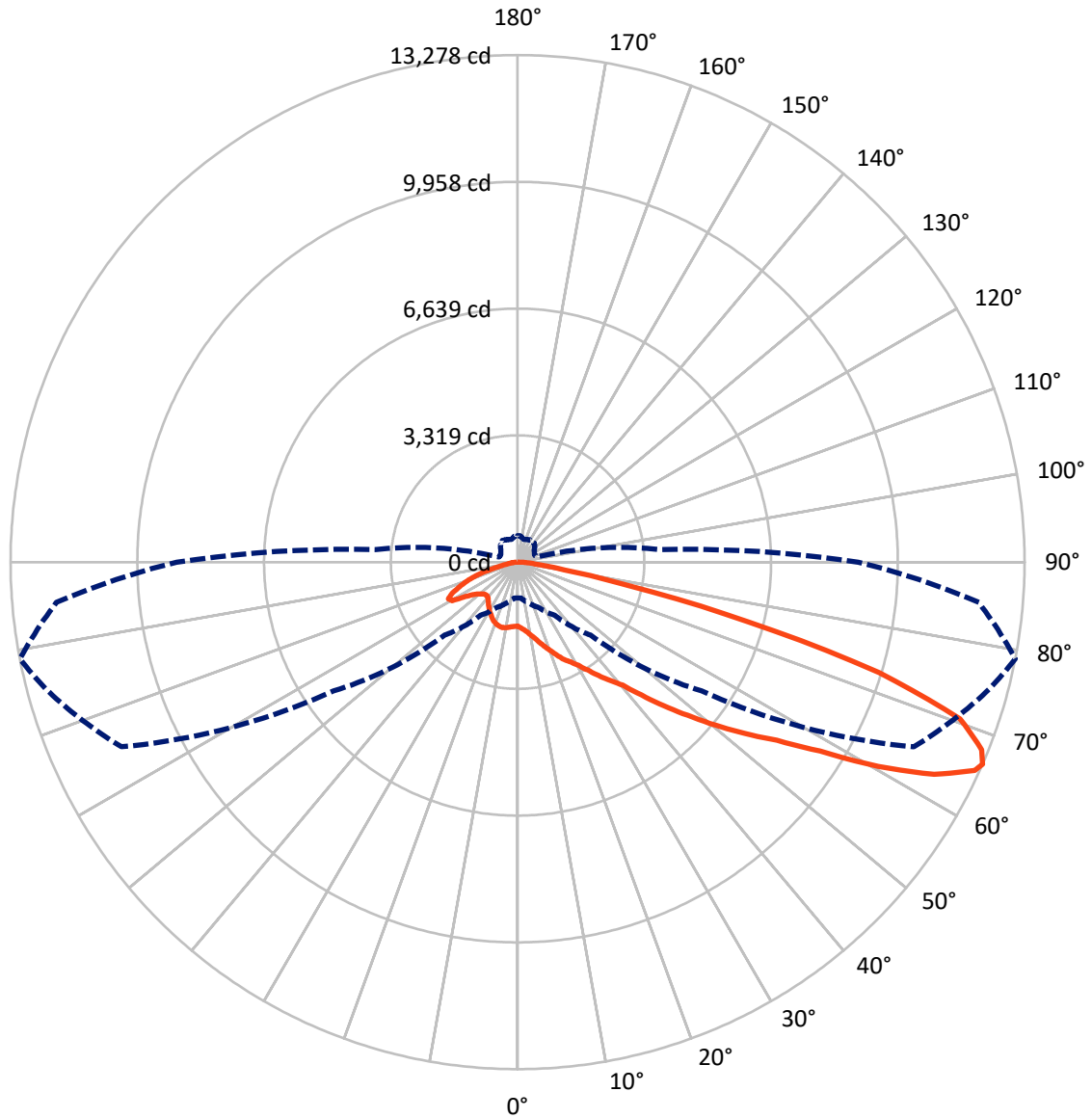
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral      - - - Horizontal Cone Through 66-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2683.5	0.0	2683.5
	% Fixture	20.2	0.0	20.2
<b>Street Side</b>	Lumens	10605.3	0.0	10605.3
	% Fixture	79.8	0.0	79.8
<b>Total</b>	Lumens	13288.8	0.0	13288.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	165.0	1.2
10°-20°	509.5	3.8
20°-30°	874.6	6.6
30°-40°	1351.0	10.2
40°-50°	2164.1	16.3
50°-60°	3231.1	24.3
60°-70°	3319.9	25.0
70°-80°	1471.7	11.1
80°-90°	201.9	1.5
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°	13288.8	100.0
0°-180°	13288.8	100.0

**Coefficient of Utilization**



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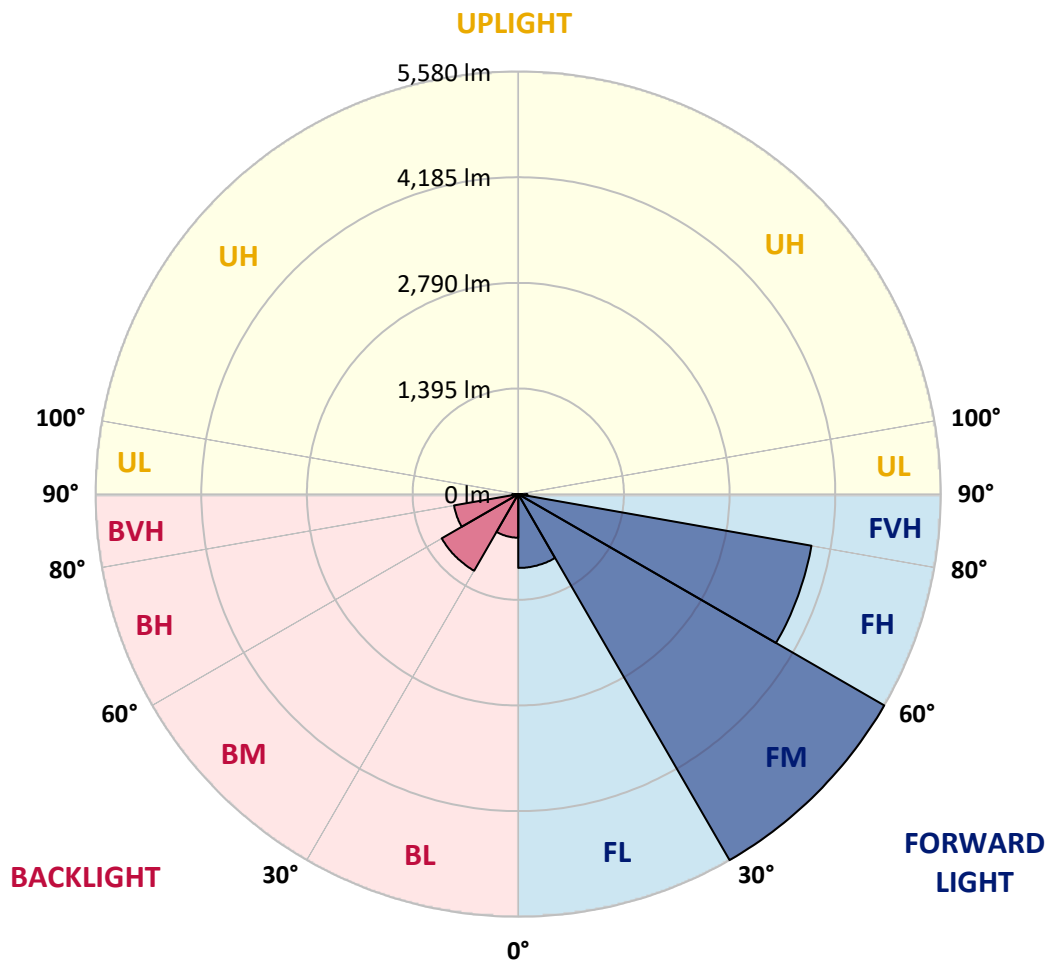
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	974.2	7.3			
FM (30°-60°)	5579.5	42.0			
FH (60°-80°)	3930.5	29.6			G2/5000
FVH (80°-90°)	121.1	0.9			G2/225
BL (0°-30°)	574.9	4.3	B2/1000		
BM (30°-60°)	1166.7	8.8	B2/2500		
BH (60°-80°)	861.1	6.5	B2/1000		G2/1000
BVH (80°-90°)	80.8	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-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	1678.0	1678.0	1678.0	1678.0	1678.0	1678.0	1678.0	1678.0	1678.0	1678.0	1678.0
2.5°	1784.7	1786.2	1786.2	1780.3	1781.8	1786.2	1770.1	1735.0	1735.0	1729.2	1718.9
5°	1894.3	1887.0	1876.8	1878.3	1872.4	1872.4	1854.9	1821.2	1792.0	1780.3	1749.6
7.5°	1909.0	1916.3	1914.8	1932.3	1941.1	1941.1	1949.9	1922.1	1878.3	1850.5	1819.8
10°	1938.2	1919.2	1917.7	1958.6	1971.8	2002.5	2037.6	2023.0	1986.4	1947.0	1906.0
12.5°	1955.7	1967.4	1967.4	1987.9	2018.6	2063.9	2125.3	2153.1	2096.0	2055.1	1992.3
15°	1982.0	1966.0	2012.7	2030.3	2088.7	2120.9	2208.6	2280.2	2242.2	2192.5	2093.1
17.5°	1993.7	1983.5	2009.8	2042.0	2141.4	2189.6	2296.3	2395.7	2363.5	2331.4	2229.1
20°	2053.7	2052.2	2063.9	2090.2	2161.8	2256.8	2389.8	2527.2	2538.9	2480.5	2341.6
22.5°	2199.8	2180.8	2180.8	2170.6	2201.3	2299.2	2479.0	2669.0	2721.6	2652.9	2468.8
25°	2334.3	2360.6	2344.5	2297.8	2286.1	2337.2	2543.3	2819.6	2889.7	2825.4	2641.3
27.5°	2506.8	2515.5	2543.3	2480.5	2400.1	2416.2	2613.5	2904.4	3049.1	2962.8	2739.2
30°	2755.3	2739.2	2733.3	2663.2	2557.9	2536.0	2693.9	3028.6	3258.1	3136.8	2854.7
32.5°	2923.4	2962.8	2961.4	2864.9	2737.7	2689.5	2793.3	3145.5	3481.7	3369.2	3068.1
35°	3256.6	3297.5	3265.4	3123.6	2974.5	2878.0	2936.5	3297.5	3737.5	3649.8	3249.3
37.5°	3682.0	3778.4	3709.7	3448.1	3237.6	3132.4	3135.3	3462.7	3999.1	3927.5	3443.7
40°	3975.8	4105.9	4010.8	3765.3	3541.6	3442.2	3402.8	3658.6	4311.9	4235.9	3747.7
42.5°	4339.7	4447.9	4398.2	4155.5	3893.9	3809.1	3730.2	3986.0	4789.9	4754.8	4138.0
45°	4737.3	4788.5	4772.4	4618.9	4328.0	4298.8	4124.9	4417.2	5352.7	5367.3	4626.2
47.5°	5107.1	5134.9	5165.6	5054.5	4873.2	4898.1	4579.4	4879.1	5899.3	5995.8	5170.0
50°	5202.1	5297.1	5368.7	5443.3	5482.8	5650.8	5080.8	5446.2	6527.8	6714.9	5775.1
52.5°	5105.6	5098.3	5316.1	5550.0	5944.6	6296.9	5763.4	6150.7	7083.3	7453.1	6329.1
55°	4667.1	4652.5	5003.3	5313.2	6083.5	6656.5	6738.3	7089.1	7754.2	8235.1	7078.9
57.5°	3899.8	3809.1	4192.1	4700.8	5782.4	6695.9	7717.7	8482.1	8786.1	9334.3	8223.4
60°	2620.8	2582.8	2949.7	3556.3	4694.9	6136.1	8303.8	10225.9	10240.5	10857.3	9999.3
62.5°	1613.7	1621.0	1856.3	2310.9	3287.3	4864.5	8050.9	11618.9	11621.8	12240.1	11461.0
65°	1055.3	1059.7	1249.7	1501.1	2053.7	3299.0	6657.9	11728.5	12582.1	13156.6	12130.5
66°	939.9	941.3	1105.0	1309.7	1701.4	2699.7	5880.3	11443.5	12798.4	13277.9	12121.7
67.5°	792.2	811.2	942.8	1100.6	1327.2	1939.6	4665.7	10619.1	12687.4	13108.3	11846.9
70°	619.8	630.0	733.8	894.5	995.4	1122.6	2772.8	8656.1	11613.0	12295.6	10847.1
72.5°	497.0	505.7	584.7	726.5	808.3	739.6	1509.9	6280.8	9173.5	9901.4	8531.8
75°	419.5	421.0	459.0	571.5	665.1	555.4	803.9	4031.3	5886.2	6225.3	5227.0
77.5°	339.1	345.0	371.3	435.6	535.0	437.0	479.4	2258.3	2955.5	2980.4	2416.2
80°	276.3	279.2	295.3	317.2	407.8	323.0	324.5	1102.1	1267.3	1238.0	982.2
82.5°	217.8	220.7	239.7	235.3	299.6	230.9	201.7	530.6	583.2	571.5	451.7
85°	122.8	122.8	188.6	188.6	190.0	146.2	122.8	249.9	308.4	288.0	211.9
87.5°	39.5	40.9	57.0	59.9	95.0	65.8	59.9	93.5	146.2	128.6	76.0
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°	1678.0	1678.0	1678.0	1678.0	1678.0	1678.0	1678.0	1678.0	1678.0	1678.0	1678.0
2.5°	1713.1	1689.7	1679.5	1645.8	1637.1	1615.2	1604.9	1591.8	1587.4	1568.4	1585.9
5°	1726.2	1718.9	1678.0	1635.6	1603.5	1588.8	1566.9	1537.7	1534.8	1508.5	1505.5
7.5°	1781.8	1756.9	1685.3	1640.0	1575.7	1539.1	1490.9	1476.3	1457.3	1448.5	1467.5
10°	1868.0	1805.2	1698.5	1584.5	1505.5	1461.7	1426.6	1416.4	1417.8	1412.0	1403.2
12.5°	1929.4	1869.5	1676.5	1537.7	1435.4	1393.0	1390.1	1400.3	1416.4	1409.1	1419.3
15°	2017.1	1904.6	1660.5	1460.2	1378.4	1366.7	1365.2	1395.9	1394.4	1394.4	1393.0
17.5°	2099.0	1939.6	1602.0	1393.0	1318.4	1327.2	1337.4	1336.0	1350.6	1356.4	1366.7
20°	2202.7	1980.6	1520.1	1325.7	1273.1	1270.2	1268.7	1270.2	1284.8	1293.6	1286.3
22.5°	2293.4	1989.3	1451.4	1261.4	1219.0	1207.3	1188.3	1207.3	1200.0	1203.0	1211.7
25°	2372.3	1990.8	1353.5	1213.2	1165.0	1138.6	1124.0	1122.6	1109.4	1108.0	1108.0
27.5°	2438.1	1941.1	1267.3	1146.0	1100.6	1075.8	1074.3	1058.3	1024.6	1002.7	1005.6
30°	2489.2	1903.1	1207.3	1087.5	1043.6	1039.3	1026.1	989.6	945.7	917.9	917.9
32.5°	2579.9	1827.1	1125.5	1027.6	1005.6	999.8	969.1	936.9	896.0	869.7	865.3
35°	2647.1	1756.9	1071.4	976.4	966.2	954.5	928.2	893.1	881.4	875.5	879.9
37.5°	2723.1	1678.0	1005.6	932.5	942.8	920.9	890.2	874.1	915.0	904.8	909.2
40°	2844.4	1622.5	941.3	906.2	916.5	891.6	852.2	846.3	897.5	860.9	852.2
42.5°	3066.6	1621.0	901.9	866.8	874.1	855.1	820.0	817.1	837.5	793.7	780.5
45°	3342.9	1672.2	872.6	837.5	831.7	828.8	817.1	803.9	786.4	729.4	714.8
47.5°	3673.2	1755.5	866.8	793.7	801.0	825.8	811.2	777.6	732.3	695.8	688.4
50°	4073.7	1928.0	852.2	761.5	774.7	814.2	802.5	755.7	714.8	691.4	687.0
52.5°	4516.6	2145.7	833.2	711.8	741.1	803.9	809.8	765.9	706.0	685.5	682.6
55°	5038.4	2467.3	811.2	657.8	701.6	793.7	809.8	736.7	694.3	694.3	691.4
57.5°	6068.9	3046.1	765.9	608.1	666.5	774.7	786.4	738.1	695.8	695.8	689.9
60°	7580.3	3949.5	679.7	570.1	632.9	748.4	768.8	716.2	679.7	688.4	687.0
62.5°	8762.8	4224.2	606.6	533.5	599.3	700.1	745.5	692.8	660.7	692.8	695.8
65°	9015.6	3946.5	532.1	494.0	552.5	653.4	711.8	659.2	632.9	695.8	698.7
66°	8925.0	3730.2	505.7	482.4	532.1	630.0	691.4	647.5	618.3	692.8	694.3
67.5°	8521.6	3405.7	476.5	457.5	504.3	596.4	668.0	631.4	594.9	684.1	670.9
70°	7644.6	2888.3	426.8	413.7	464.8	540.8	613.9	590.5	558.4	630.0	606.6
72.5°	5887.6	2308.0	374.2	375.7	419.5	483.8	559.8	543.7	516.0	552.5	537.9
75°	3585.5	1474.8	326.0	328.9	365.4	429.7	508.7	497.0	463.4	483.8	476.5
77.5°	1588.8	730.8	274.8	280.6	309.9	378.6	442.9	423.9	388.8	393.2	390.3
80°	616.8	346.4	223.6	230.9	249.9	302.6	366.9	349.3	318.6	312.8	309.9
82.5°	296.7	192.9	172.5	175.4	182.7	241.2	315.7	293.8	252.9	226.6	226.6
85°	149.1	119.9	121.3	111.1	121.3	163.7	213.4	178.3	147.6	131.6	134.5
87.5°	59.9	59.9	59.9	51.2	54.1	77.5	99.4	67.2	61.4	36.5	36.5
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)