

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: P476750

Luminaire Tested: **IFLD-S-SA2D-830-U-T2**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P476750  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2D-830-U-T2  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens  
Light Source: (32) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

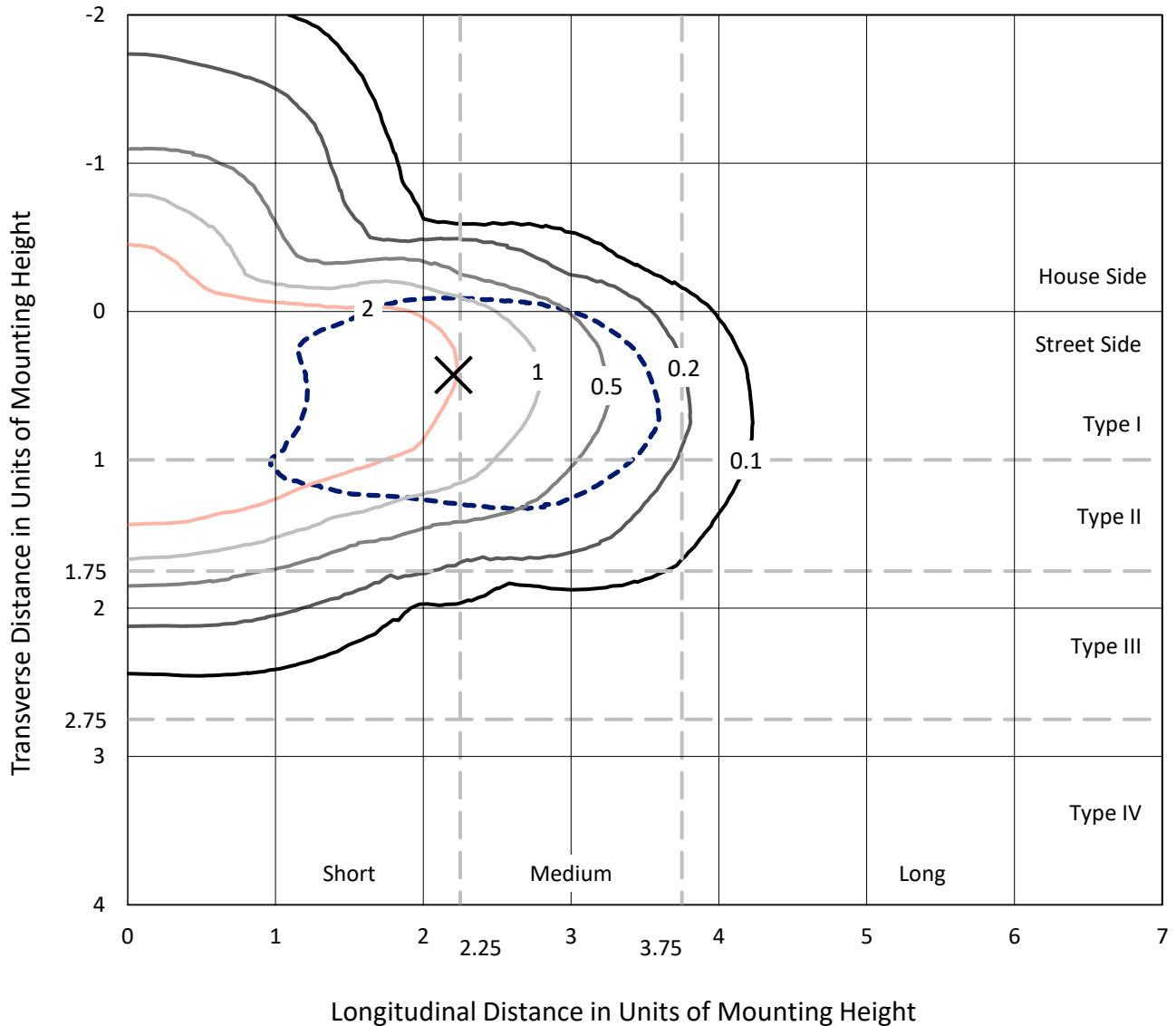
Lumens per Lamp: N/A  
Luminaire Lumens: 12412.2 lumens  
Efficiency: N/A  
Efficacy: 100.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

Input Watts (W): 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

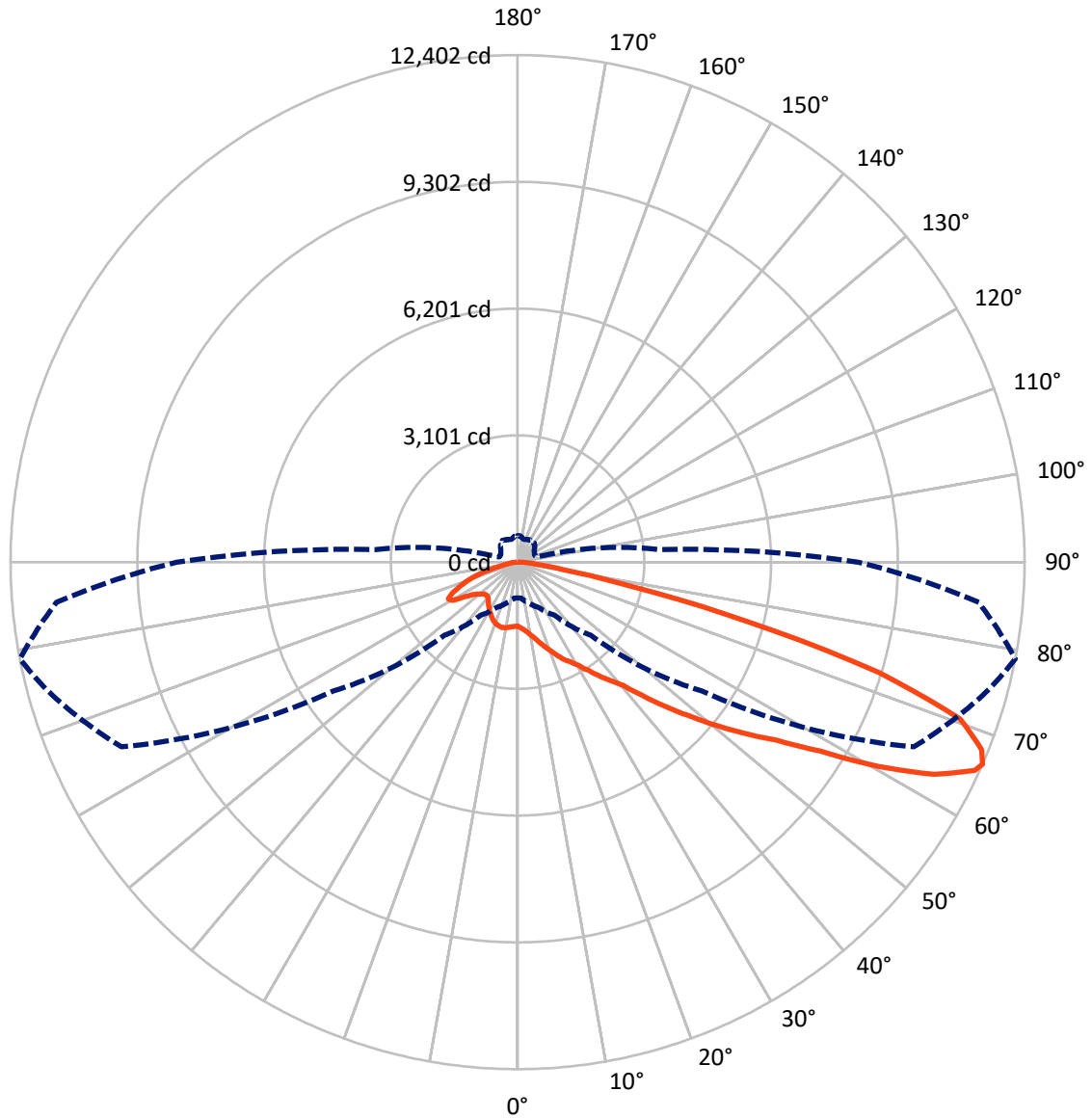
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5 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	2506.5	0.0	2506.5
	% Fixture	20.2	0.0	20.2
<b>Street Side</b>	Lumens	9905.7	0.0	9905.7
	% Fixture	79.8	0.0	79.8
<b>Total</b>	Lumens	12412.2	0.0	12412.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	154.1	1.2
10°-20°	475.9	3.8
20°-30°	816.9	6.6
30°-40°	1261.9	10.2
40°-50°	2021.3	16.3
50°-60°	3017.9	24.3
60°-70°	3100.9	25.0
70°-80°	1374.6	11.1
80°-90°	188.6	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°	12412.2	100.0
0°-180°	12412.2	100.0



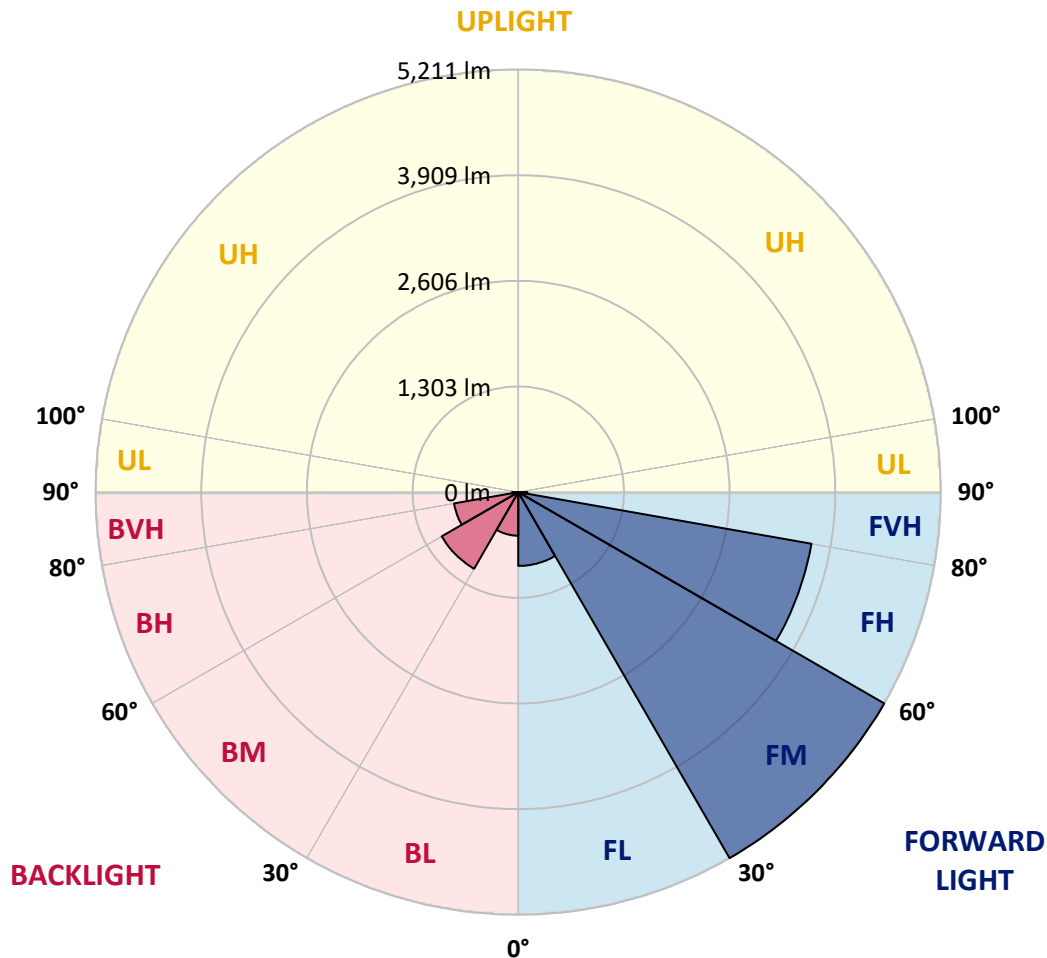
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	909.9	7.3			
FM (30°-60°)	5211.4	42.0			
FH (60°-80°)	3671.2	29.6			G2/5000
FVH (80°-90°)	113.1	0.9			G2/225
BL (0°-30°)	537.0	4.3	B2/1000		
BM (30°-60°)	1089.7	8.8	B2/2500		
BH (60°-80°)	804.3	6.5	B2/1000		G2/1000
BVH (80°-90°)	75.5	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°	1567.3	1567.3	1567.3	1567.3	1567.3	1567.3	1567.3	1567.3	1567.3	1567.3	1567.3
2.5°	1667.0	1668.3	1668.3	1662.9	1664.2	1668.3	1653.3	1620.6	1620.6	1615.1	1605.5
5°	1769.4	1762.5	1753.0	1754.4	1748.9	1748.9	1732.5	1701.1	1673.8	1662.9	1634.2
7.5°	1783.0	1789.8	1788.5	1804.9	1813.1	1813.1	1821.2	1795.3	1754.4	1728.4	1699.7
10°	1810.3	1792.6	1791.2	1829.4	1841.7	1870.4	1903.2	1889.5	1855.4	1818.5	1780.3
12.5°	1826.7	1837.6	1837.6	1856.7	1885.4	1927.7	1985.1	2011.0	1957.8	1919.5	1860.8
15°	1851.3	1836.3	1880.0	1896.3	1950.9	1981.0	2062.9	2129.8	2094.3	2047.9	1955.0
17.5°	1862.2	1852.7	1877.2	1907.3	2000.1	2045.2	2144.8	2237.7	2207.6	2177.6	2082.0
20°	1918.2	1916.8	1927.7	1952.3	2019.2	2108.0	2232.2	2360.5	2371.4	2316.8	2187.1
22.5°	2054.7	2037.0	2037.0	2027.4	2056.1	2147.5	2315.5	2493.0	2542.1	2477.9	2305.9
25°	2180.3	2204.9	2189.9	2146.2	2135.3	2183.0	2375.5	2633.6	2699.1	2639.0	2467.0
27.5°	2341.4	2349.6	2375.5	2316.8	2241.7	2256.8	2441.1	2712.8	2847.9	2767.4	2558.5
30°	2573.5	2558.5	2553.0	2487.5	2389.2	2368.7	2516.2	2828.8	3043.2	2929.8	2666.3
32.5°	2730.5	2767.4	2766.0	2675.9	2557.1	2512.1	2609.0	2938.0	3252.0	3146.9	2865.7
35°	3041.8	3080.0	3050.0	2917.5	2778.3	2688.2	2742.8	3080.0	3491.0	3409.0	3035.0
37.5°	3439.1	3529.2	3465.0	3220.6	3024.0	2925.7	2928.5	3234.3	3735.3	3668.4	3216.5
40°	3713.5	3835.0	3746.3	3516.9	3308.0	3215.2	3178.3	3417.2	4027.5	3956.5	3500.5
42.5°	4053.4	4154.5	4108.1	3881.4	3637.0	3557.9	3484.1	3723.0	4473.9	4441.2	3865.0
45°	4424.8	4472.6	4457.6	4314.2	4042.5	4015.2	3852.7	4125.8	4999.6	5013.2	4321.0
47.5°	4770.2	4796.1	4824.8	4721.1	4551.8	4575.0	4277.3	4557.2	5510.2	5600.3	4828.9
50°	4858.9	4947.7	5014.6	5084.2	5121.1	5278.1	4745.6	5086.9	6097.2	6272.0	5394.1
52.5°	4768.8	4762.0	4965.4	5183.9	5552.5	5881.5	5383.2	5745.0	6616.0	6961.4	5911.6
55°	4359.3	4345.6	4673.3	4962.7	5682.2	6217.4	6293.8	6621.5	7242.7	7691.8	6611.9
57.5°	3642.5	3557.9	3915.6	4390.7	5400.9	6254.2	7208.5	7922.6	8206.5	8718.5	7680.9
60°	2447.9	2412.4	2755.1	3321.7	4385.2	5731.3	7756.0	9551.3	9565.0	10141.1	9339.7
62.5°	1507.2	1514.1	1733.9	2158.5	3070.5	4543.6	7519.8	10852.4	10855.1	11432.6	10705.0
65°	985.7	989.8	1167.3	1402.1	1918.2	3081.4	6218.7	10954.8	11752.1	12288.7	11330.2
66°	877.9	879.2	1032.1	1223.3	1589.2	2521.6	5492.4	10688.6	11954.2	12402.0	11322.1
67.5°	740.0	757.7	880.6	1028.0	1239.7	1811.7	4357.9	9918.6	11850.4	12243.6	11065.4
70°	578.9	588.4	685.4	835.5	929.7	1048.5	2589.9	8085.0	10846.9	11484.5	10131.6
72.5°	464.2	472.4	546.1	678.5	755.0	690.8	1410.3	5866.5	8568.3	9248.2	7969.0
75°	391.8	393.2	428.7	533.8	621.2	518.8	750.9	3765.4	5497.9	5814.6	4882.2
77.5°	316.7	322.2	346.8	406.8	499.7	408.2	447.8	2109.3	2760.5	2783.8	2256.8
80°	258.0	260.8	275.8	296.3	380.9	301.7	303.1	1029.4	1183.7	1156.4	917.5
82.5°	203.4	206.2	223.9	219.8	279.9	215.7	188.4	495.6	544.7	533.8	421.9
85°	114.7	114.7	176.1	176.1	177.5	136.5	114.7	233.5	288.1	269.0	198.0
87.5°	36.9	38.2	53.2	56.0	88.7	61.4	56.0	87.4	136.5	120.1	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°	1567.3	1567.3	1567.3	1567.3	1567.3	1567.3	1567.3	1567.3	1567.3	1567.3	1567.3
2.5°	1600.1	1578.2	1568.7	1537.3	1529.1	1508.6	1499.0	1486.8	1482.7	1464.9	1481.3
5°	1612.4	1605.5	1567.3	1527.7	1497.7	1484.0	1463.6	1436.2	1433.5	1408.9	1406.2
7.5°	1664.2	1641.0	1574.1	1531.8	1471.7	1437.6	1392.6	1378.9	1361.2	1353.0	1370.7
10°	1744.8	1686.1	1586.4	1479.9	1406.2	1365.3	1332.5	1322.9	1324.3	1318.8	1310.6
12.5°	1802.1	1746.2	1565.9	1436.2	1340.7	1301.1	1298.4	1307.9	1322.9	1316.1	1325.7
15°	1884.1	1778.9	1550.9	1363.9	1287.4	1276.5	1275.1	1303.8	1302.5	1302.5	1301.1
17.5°	1960.5	1811.7	1496.3	1301.1	1231.5	1239.7	1249.2	1247.8	1261.5	1267.0	1276.5
20°	2057.4	1849.9	1419.9	1238.3	1189.1	1186.4	1185.0	1186.4	1200.1	1208.3	1201.4
22.5°	2142.1	1858.1	1355.7	1178.2	1138.6	1127.7	1110.0	1127.7	1120.9	1123.6	1131.8
25°	2215.8	1859.5	1264.2	1133.2	1088.1	1063.5	1049.9	1048.5	1036.2	1034.9	1034.9
27.5°	2277.2	1813.1	1183.7	1070.4	1028.0	1004.8	1003.5	988.4	957.0	936.6	939.3
30°	2325.0	1777.6	1127.7	1015.7	974.8	970.7	958.4	924.3	883.3	857.4	857.4
32.5°	2409.7	1706.6	1051.2	959.8	939.3	933.8	905.2	875.1	836.9	812.3	808.2
35°	2472.5	1641.0	1000.7	912.0	902.4	891.5	866.9	834.2	823.2	817.8	821.9
37.5°	2543.5	1567.3	939.3	871.0	880.6	860.1	831.4	816.4	854.6	845.1	849.2
40°	2656.8	1515.4	879.2	846.5	856.0	832.8	795.9	790.5	838.3	804.1	795.9
42.5°	2864.3	1514.1	842.4	809.6	816.4	798.7	765.9	763.2	782.3	741.3	729.0
45°	3122.3	1561.9	815.1	782.3	776.8	774.1	763.2	750.9	734.5	681.3	667.6
47.5°	3430.9	1639.7	809.6	741.3	748.2	771.4	757.7	726.3	684.0	649.9	643.0
50°	3805.0	1800.8	795.9	711.3	723.6	760.4	749.5	705.8	667.6	645.8	641.7
52.5°	4218.6	2004.2	778.2	664.9	692.2	750.9	756.4	715.4	659.4	640.3	637.6
55°	4706.0	2304.6	757.7	614.4	655.3	741.3	756.4	688.1	648.5	648.5	645.8
57.5°	5668.5	2845.2	715.4	567.9	622.6	723.6	734.5	689.5	649.9	649.9	644.4
60°	7080.2	3688.9	634.8	532.4	591.2	699.0	718.1	669.0	634.8	643.0	641.7
62.5°	8184.7	3945.6	566.6	498.3	559.8	654.0	696.3	647.1	617.1	647.1	649.9
65°	8420.9	3686.2	497.0	461.5	516.1	610.3	664.9	615.7	591.2	649.9	652.6
66°	8336.2	3484.1	472.4	450.5	497.0	588.4	645.8	604.8	577.5	647.1	648.5
67.5°	7959.4	3181.0	445.1	427.3	471.0	557.0	623.9	589.8	555.7	638.9	626.7
70°	7140.3	2697.7	398.7	386.4	434.2	505.1	573.4	551.6	521.5	588.4	566.6
72.5°	5499.2	2155.7	349.5	350.9	391.8	451.9	522.9	507.9	481.9	516.1	502.4
75°	3349.0	1377.5	304.5	307.2	341.3	401.4	475.1	464.2	432.8	451.9	445.1
77.5°	1484.0	682.6	256.7	262.1	289.4	353.6	413.7	395.9	363.2	367.3	364.5
80°	576.1	323.6	208.9	215.7	233.5	282.6	342.7	326.3	297.6	292.2	289.4
82.5°	277.1	180.2	161.1	163.8	170.7	225.3	294.9	274.4	236.2	211.6	211.6
85°	139.3	112.0	113.3	103.8	113.3	152.9	199.3	166.6	137.9	122.9	125.6
87.5°	56.0	56.0	56.0	47.8	50.5	72.4	92.8	62.8	57.3	34.1	34.1
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)