

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: P476753

Luminaire Tested: **IFLD-S-SA3B-830-U-T2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476753
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-830-U-T2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens
Light Source: (48) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

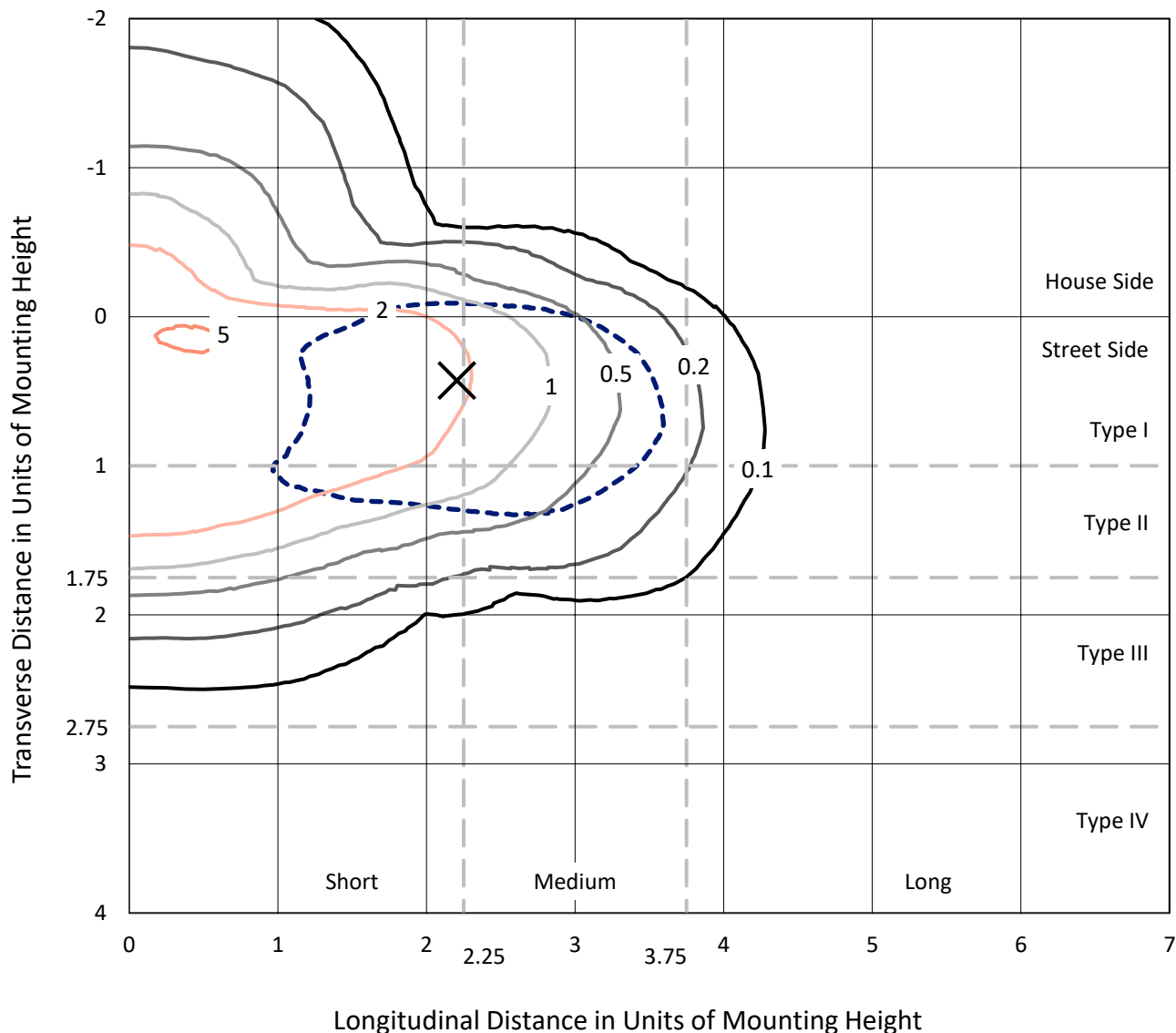
Lumens per Lamp: N/A
Luminaire Lumens: 13504.5 lumens
Efficiency: N/A
Efficacy: 110.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 122.4
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

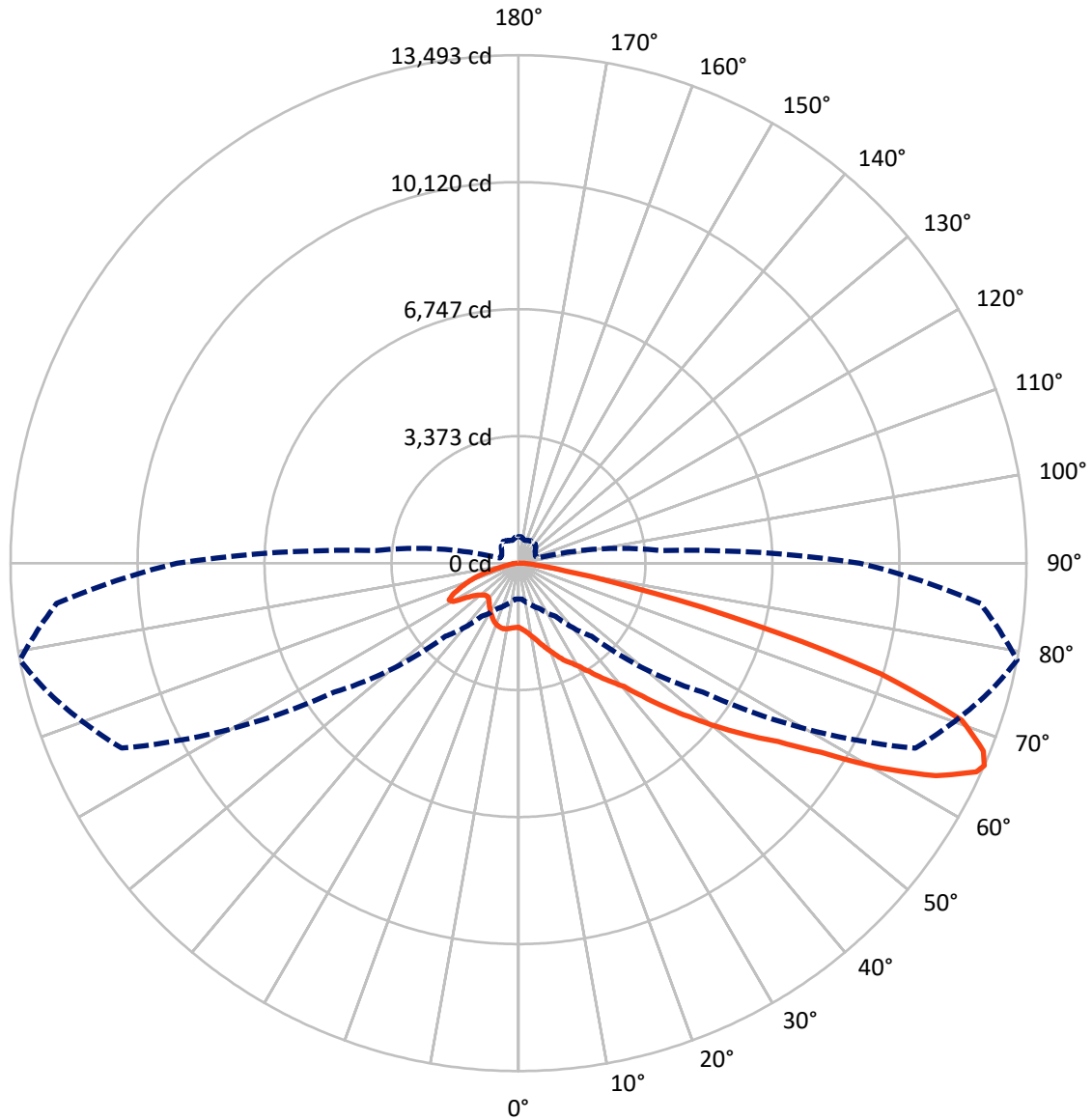
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.4 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
House Side	Lumens	2727.0	0.0	2727.0
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	10777.4	0.0	10777.4
	% Fixture	79.8	0.0	79.8
Total	Lumens	13504.5	0.0	13504.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.7	1.2
10°-20°	517.8	3.8
20°-30°	888.8	6.6
30°-40°	1373.0	10.2
40°-50°	2199.2	16.3
50°-60°	3283.5	24.3
60°-70°	3373.8	25.0
70°-80°	1495.6	11.1
80°-90°	205.2	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°	13504.5	100.0
0°-180°	13504.5	100.0

Coefficient of Utilization



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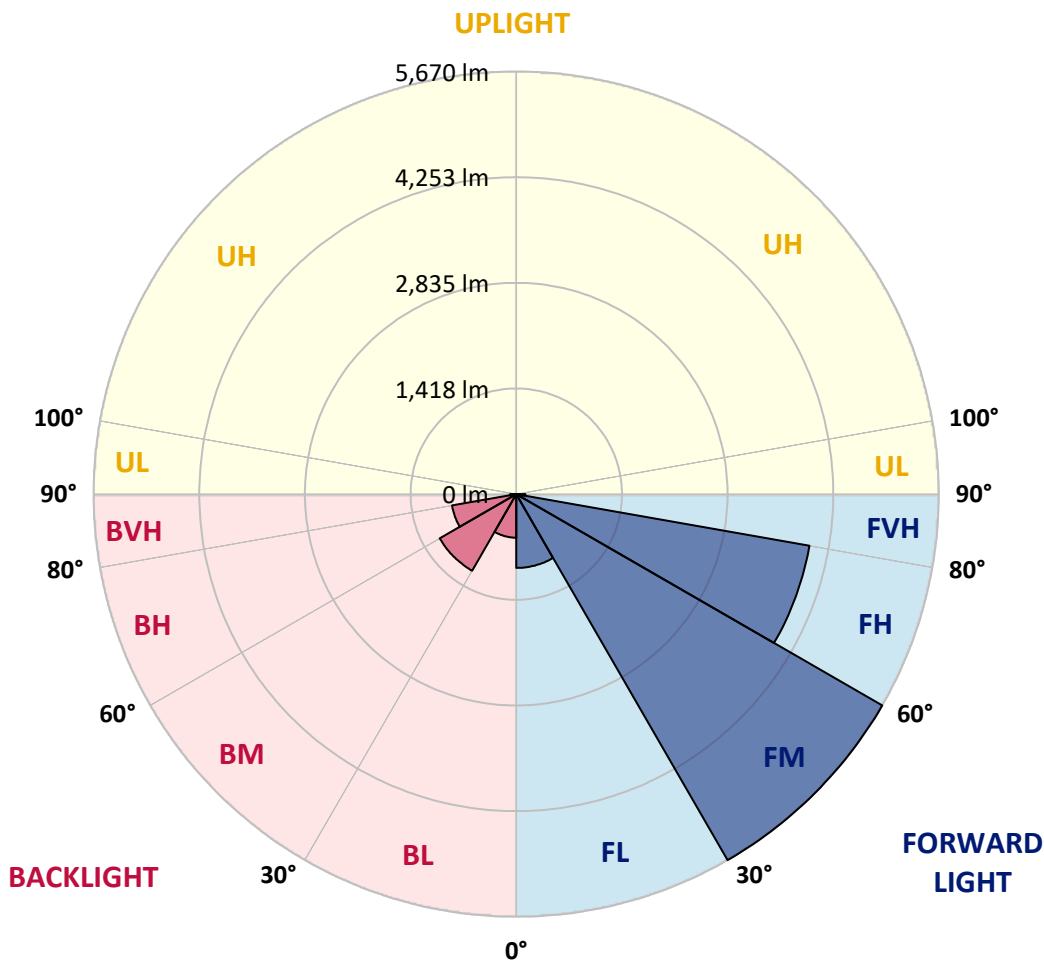
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	990.0	7.3			
FM (30°-60°)	5670.1	42.0			
FH (60°-80°)	3994.3	29.6			G2/5000
FVH (80°-90°)	123.1	0.9			G2/225
BL (0°-30°)	584.3	4.3	B2/1000		
BM (30°-60°)	1185.6	8.8	B2/2500		
BH (60°-80°)	875.1	6.5	B2/1000		G2/1000
BVH (80°-90°)	82.1	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°	1705.2	1705.2	1705.2	1705.2	1705.2	1705.2	1705.2	1705.2	1705.2	1705.2	1705.2
2.5°	1813.7	1815.2	1815.2	1809.2	1810.7	1815.2	1798.8	1763.2	1763.2	1757.2	1746.8
5°	1925.1	1917.7	1907.3	1908.7	1902.8	1902.8	1885.0	1850.8	1821.1	1809.2	1778.0
7.5°	1939.9	1947.4	1945.9	1963.7	1972.6	1972.6	1981.5	1953.3	1908.7	1880.5	1849.3
10°	1969.6	1950.3	1948.8	1990.4	2003.8	2035.0	2070.7	2055.8	2018.7	1978.6	1937.0
12.5°	1987.5	1999.4	1999.4	2020.1	2051.3	2097.4	2159.8	2188.0	2130.1	2088.5	2024.6
15°	2014.2	1997.9	2045.4	2063.2	2122.6	2155.3	2244.4	2317.2	2278.6	2228.1	2127.1
17.5°	2026.1	2015.7	2042.4	2075.1	2176.1	2225.1	2333.6	2434.6	2401.9	2369.2	2265.2
20°	2087.0	2085.5	2097.4	2124.1	2196.9	2293.5	2428.6	2568.3	2580.1	2520.7	2379.6
22.5°	2235.5	2216.2	2216.2	2205.8	2237.0	2336.5	2519.2	2712.3	2765.8	2696.0	2508.8
25°	2372.2	2398.9	2382.6	2335.1	2323.2	2375.2	2584.6	2865.3	2936.6	2871.3	2684.1
27.5°	2547.5	2556.4	2584.6	2520.7	2439.0	2455.4	2655.9	2951.5	3098.5	3010.9	2783.6
30°	2800.0	2783.6	2777.7	2706.4	2599.5	2577.2	2737.6	3077.8	3311.0	3187.7	2901.0
32.5°	2970.8	3010.9	3009.4	2911.4	2782.2	2733.1	2838.6	3196.6	3538.2	3423.9	3117.9
35°	3309.5	3351.1	3318.4	3174.3	3022.8	2924.8	2984.2	3351.1	3798.2	3709.1	3302.1
37.5°	3741.7	3839.8	3770.0	3504.1	3290.2	3183.2	3186.2	3518.9	4064.1	3991.3	3499.6
40°	4040.3	4172.5	4075.9	3826.4	3599.1	3498.1	3458.0	3718.0	4381.9	4304.7	3808.6
42.5°	4410.2	4520.1	4469.6	4223.0	3957.1	3871.0	3790.7	4050.7	4867.7	4832.0	4205.2
45°	4814.2	4866.2	4849.8	4693.9	4398.3	4368.6	4191.8	4488.9	5439.5	5454.4	4701.3
47.5°	5190.0	5218.2	5249.4	5136.5	4952.3	4977.6	4653.8	4958.3	5995.1	6093.1	5253.9
50°	5286.5	5383.1	5455.9	5531.6	5571.7	5742.6	5163.3	5534.6	6633.8	6823.9	5868.8
52.5°	5188.5	5181.1	5402.4	5640.1	6041.1	6399.1	5856.9	6250.6	7198.3	7574.1	6431.8
55°	4742.9	4728.0	5084.5	5399.4	6182.2	6764.5	6847.7	7204.2	7880.1	8368.8	7193.8
57.5°	3963.1	3871.0	4260.1	4777.1	5876.3	6804.6	7842.9	8619.8	8928.8	9485.8	8356.9
60°	2663.3	2624.7	2997.5	3614.0	4771.1	6235.7	8438.6	10391.9	10406.7	11033.6	10161.6
62.5°	1639.9	1647.3	1886.5	2348.4	3340.7	4943.4	8181.6	11807.5	11810.4	12438.8	11647.0
65°	1072.5	1076.9	1270.0	1525.5	2087.0	3352.6	6766.0	11918.9	12786.3	13370.1	12327.4
66°	955.1	956.6	1123.0	1330.9	1729.0	2743.5	5975.8	11629.2	13006.2	13493.4	12318.4
67.5°	805.1	824.4	958.1	1118.5	1348.7	1971.1	4741.4	10791.5	12893.3	13321.1	12039.2
70°	629.8	640.2	745.7	909.1	1011.6	1140.8	2817.8	8796.6	11801.5	12495.2	11023.2
72.5°	505.0	513.9	594.2	738.2	821.4	751.6	1534.4	6382.8	9322.4	10062.1	8670.3
75°	426.3	427.8	466.4	580.8	675.9	564.5	817.0	4096.7	5981.7	6326.3	5311.8
77.5°	344.6	350.6	377.3	442.6	543.7	444.1	487.2	2294.9	3003.5	3028.7	2455.4
80°	280.7	283.7	300.1	322.3	414.4	328.3	329.8	1120.0	1287.8	1258.1	998.2
82.5°	221.3	224.3	243.6	239.1	304.5	234.7	205.0	539.2	592.7	580.8	459.0
85°	124.8	124.8	191.6	191.6	193.1	148.5	124.8	254.0	313.4	292.6	215.4
87.5°	40.1	41.6	57.9	60.9	96.6	66.8	60.9	95.1	148.5	130.7	77.2
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°	1705.2	1705.2	1705.2	1705.2	1705.2	1705.2	1705.2	1705.2	1705.2	1705.2	1705.2
2.5°	1740.9	1717.1	1706.7	1672.6	1663.7	1641.4	1631.0	1617.6	1613.1	1593.8	1611.7
5°	1754.3	1746.8	1705.2	1662.2	1629.5	1614.6	1592.4	1562.6	1559.7	1532.9	1530.0
7.5°	1810.7	1785.5	1712.7	1666.6	1601.3	1564.1	1515.1	1500.3	1480.9	1472.0	1491.3
10°	1898.3	1834.5	1726.0	1610.2	1530.0	1485.4	1449.8	1439.4	1440.8	1434.9	1426.0
12.5°	1960.7	1899.8	1703.8	1562.6	1458.7	1415.6	1412.6	1423.0	1439.4	1431.9	1442.3
15°	2049.9	1935.5	1687.4	1483.9	1400.7	1388.9	1387.4	1418.6	1417.1	1417.1	1415.6
17.5°	2133.0	1971.1	1628.0	1415.6	1339.8	1348.7	1359.1	1357.7	1372.5	1378.5	1388.9
20°	2238.5	2012.7	1544.8	1347.3	1293.8	1290.8	1289.3	1290.8	1305.7	1314.6	1307.2
22.5°	2330.6	2021.6	1475.0	1281.9	1238.8	1226.9	1207.6	1226.9	1219.5	1222.5	1231.4
25°	2410.8	2023.1	1375.5	1232.9	1183.9	1157.1	1142.3	1140.8	1127.4	1125.9	1125.9
27.5°	2477.7	1972.6	1287.8	1164.6	1118.5	1093.3	1091.8	1075.4	1041.3	1019.0	1022.0
30°	2529.6	1934.0	1226.9	1105.1	1060.6	1056.1	1042.8	1005.6	961.1	932.8	932.8
32.5°	2621.7	1856.8	1143.8	1044.2	1022.0	1016.0	984.8	952.1	910.6	883.8	879.4
35°	2690.1	1785.5	1088.8	992.2	981.9	970.0	943.2	907.6	895.7	889.8	894.2
37.5°	2767.3	1705.2	1022.0	947.7	958.1	935.8	904.6	888.3	929.9	919.5	923.9
40°	2890.6	1648.8	956.6	920.9	931.3	906.1	866.0	860.0	912.0	874.9	866.0
42.5°	3116.4	1647.3	916.5	880.8	888.3	869.0	833.3	830.3	851.1	806.6	793.2
45°	3397.1	1699.3	886.8	851.1	845.2	842.2	830.3	817.0	799.1	741.2	726.4
47.5°	3732.8	1784.0	880.8	806.6	814.0	839.3	824.4	790.2	744.2	707.1	699.6
50°	4139.8	1959.2	866.0	773.9	787.3	827.4	815.5	768.0	726.4	702.6	698.1
52.5°	4589.9	2180.6	846.7	723.4	753.1	817.0	822.9	778.4	717.4	696.7	693.7
55°	5120.2	2507.4	824.4	668.4	713.0	806.6	822.9	748.6	705.6	705.6	702.6
57.5°	6167.4	3095.6	778.4	617.9	677.3	787.3	799.1	750.1	707.1	707.1	701.1
60°	7703.3	4013.6	690.7	579.3	643.2	760.5	781.3	727.8	690.7	699.6	698.1
62.5°	8905.0	4292.8	616.4	542.2	609.0	711.5	757.6	704.1	671.4	704.1	707.1
65°	9162.0	4010.6	540.7	502.1	561.5	664.0	723.4	669.9	643.2	707.1	710.0
66°	9069.9	3790.7	513.9	490.2	540.7	640.2	702.6	658.0	628.3	704.1	705.6
67.5°	8659.9	3461.0	484.2	464.9	512.5	606.0	678.8	641.7	604.6	695.2	681.8
70°	7768.7	2935.2	433.7	420.4	472.4	549.6	623.9	600.1	567.4	640.2	616.4
72.5°	5983.2	2345.5	380.3	381.7	426.3	491.7	568.9	552.6	524.3	561.5	546.6
75°	3643.7	1498.8	331.2	334.2	371.4	436.7	516.9	505.0	470.9	491.7	484.2
77.5°	1614.6	742.7	279.3	285.2	314.9	384.7	450.1	430.8	395.1	399.6	396.6
80°	626.8	352.0	227.3	234.7	254.0	307.5	372.8	355.0	323.8	317.9	314.9
82.5°	301.5	196.1	175.3	178.2	185.7	245.1	320.8	298.6	257.0	230.2	230.2
85°	151.5	121.8	123.3	112.9	123.3	166.4	216.9	181.2	150.0	133.7	136.7
87.5°	60.9	60.9	60.9	52.0	55.0	78.7	101.0	68.3	62.4	37.1	37.1
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)