

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: P476519

Luminaire Tested: **IFLD-S-SA3B-730-U-T2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476519
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-730-U-T2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens
Light Source: (48) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

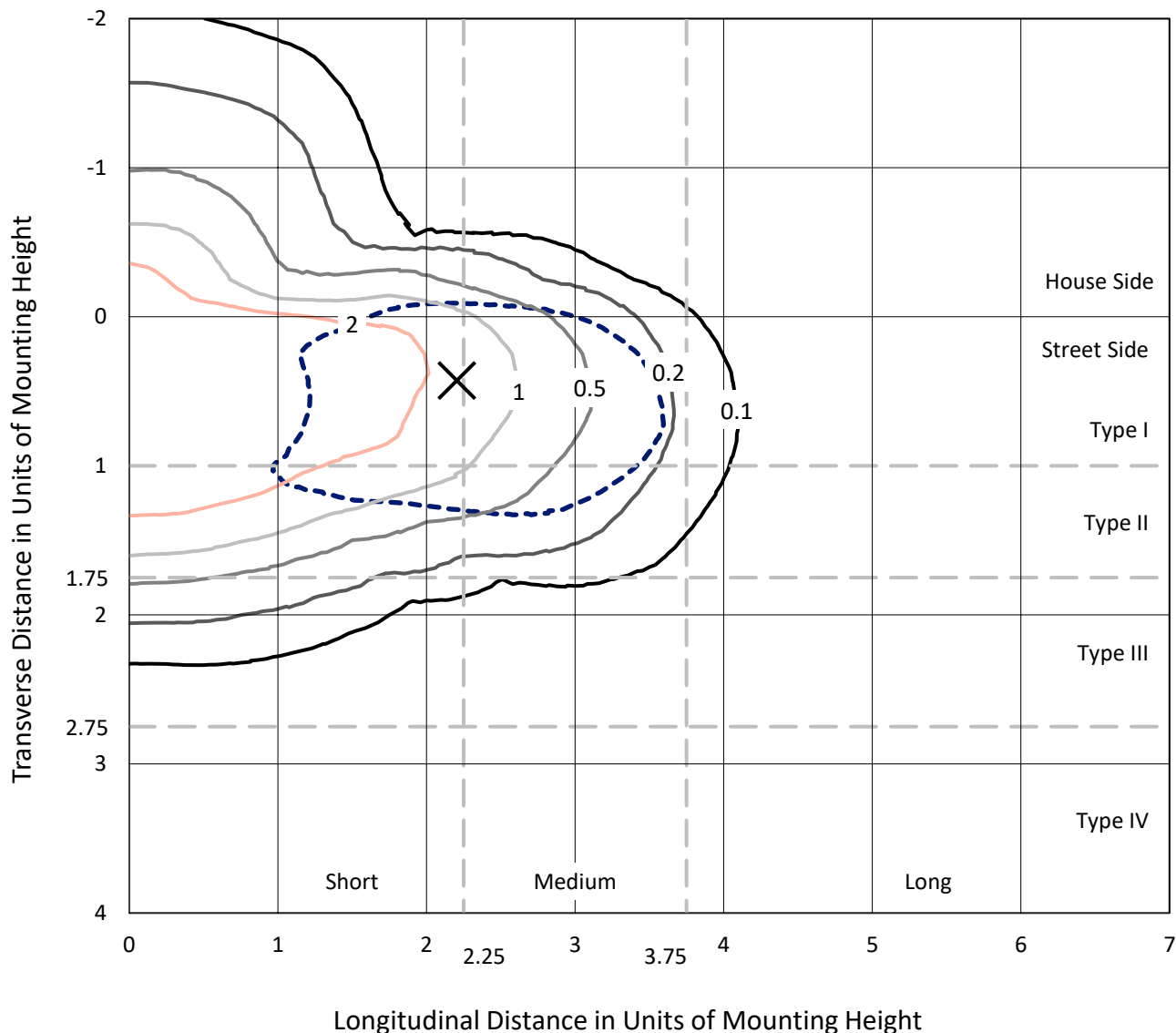
Lumens per Lamp: N/A
Luminaire Lumens: 15476 lumens
Efficiency: N/A
Efficacy: 126.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

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

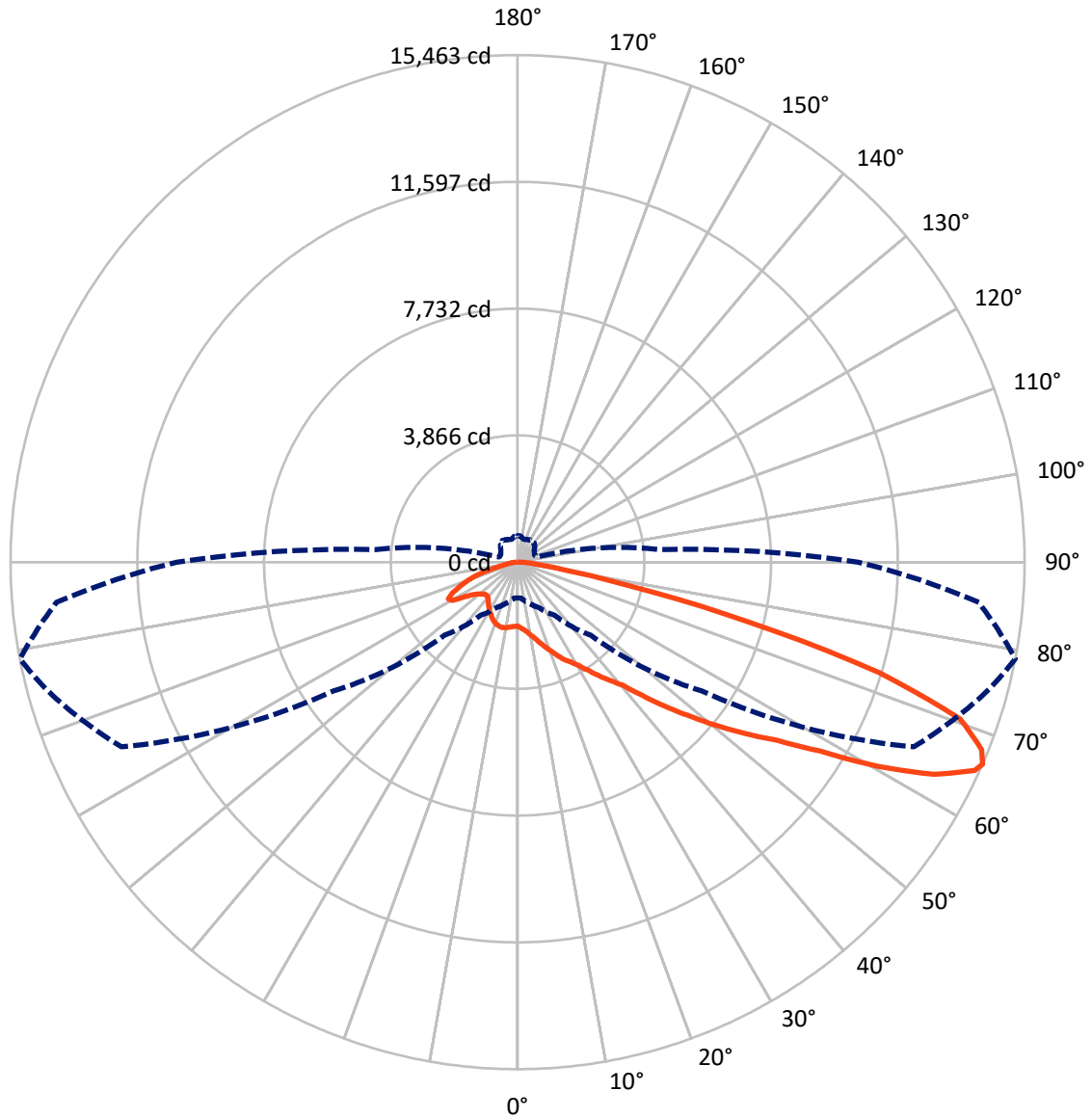
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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	3125.2	0.0	3125.2
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	12350.8	0.0	12350.8
	% Fixture	79.8	0.0	79.8
Total	Lumens	15476.0	0.0	15476.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	192.2	1.2
10°-20°	593.4	3.8
20°-30°	1018.5	6.6
30°-40°	1573.4	10.2
40°-50°	2520.2	16.3
50°-60°	3762.9	24.3
60°-70°	3866.3	25.0
70°-80°	1713.9	11.1
80°-90°	235.2	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°	15476.0	100.0
0°-180°	15476.0	100.0



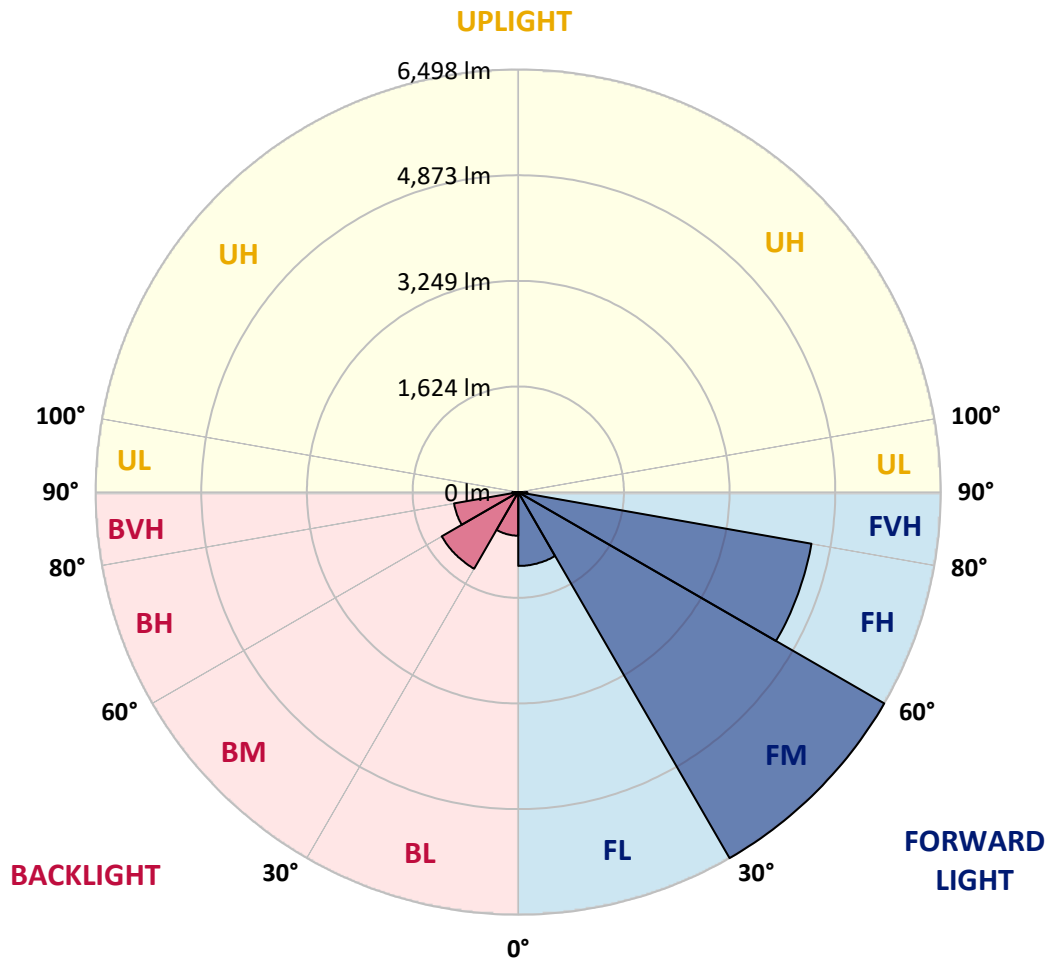
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1134.5	7.3			
FM (30°-60°)	6497.8	42.0			
FH (60°-80°)	4577.4	29.6			G2/5000
FVH (80°-90°)	141.0	0.9			G2/225
BL (0°-30°)	669.6	4.3	B2/1000		
BM (30°-60°)	1358.7	8.8	B2/2500		
BH (60°-80°)	1002.8	6.5	B3/2500		G3/2500
BVH (80°-90°)	94.1	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	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°	2078.4	2080.1	2080.1	2073.3	2075.0	2080.1	2061.4	2020.6	2020.6	2013.8	2001.8
5°	2206.1	2197.6	2185.7	2187.4	2180.6	2180.6	2160.2	2121.0	2087.0	2073.3	2037.6
7.5°	2223.1	2231.6	2229.9	2250.4	2260.6	2260.6	2270.8	2238.5	2187.4	2155.0	2119.3
10°	2257.2	2235.1	2233.4	2281.0	2296.3	2332.1	2372.9	2355.9	2313.4	2267.4	2219.7
12.5°	2277.6	2291.2	2291.2	2315.1	2350.8	2403.6	2475.1	2507.4	2441.0	2393.4	2320.2
15°	2308.3	2289.5	2344.0	2364.4	2432.5	2470.0	2572.1	2655.5	2611.3	2553.4	2437.6
17.5°	2321.9	2310.0	2340.6	2378.0	2493.8	2550.0	2674.2	2790.0	2752.5	2715.1	2595.9
20°	2391.7	2390.0	2403.6	2434.2	2517.6	2628.3	2783.2	2943.2	2956.8	2888.7	2727.0
22.5°	2561.9	2539.8	2539.8	2527.8	2563.6	2677.6	2887.0	3108.3	3169.6	3089.6	2875.1
25°	2718.5	2749.1	2730.4	2675.9	2662.3	2721.9	2961.9	3283.6	3365.3	3290.4	3076.0
27.5°	2919.4	2929.6	2961.9	2888.7	2795.1	2813.8	3043.6	3382.4	3550.9	3450.5	3190.0
30°	3208.7	3190.0	3183.2	3101.5	2978.9	2953.4	3137.2	3527.1	3794.3	3653.0	3324.5
32.5°	3404.5	3450.5	3448.8	3336.4	3188.3	3132.1	3253.0	3663.2	4054.8	3923.7	3573.0
35°	3792.6	3840.3	3802.8	3637.7	3464.1	3351.7	3419.8	3840.3	4352.7	4250.5	3784.1
37.5°	4288.0	4400.3	4320.3	4015.6	3770.5	3647.9	3651.3	4032.6	4657.4	4573.9	4010.5
40°	4630.1	4781.6	4671.0	4385.0	4124.6	4008.8	3962.8	4260.7	5021.6	4933.1	4364.6
42.5°	5054.0	5179.9	5122.1	4839.5	4534.8	4436.1	4344.1	4642.0	5578.3	5537.4	4819.1
45°	5517.0	5576.6	5557.8	5379.1	5040.4	5006.3	4803.7	5144.2	6233.6	6250.7	5387.6
47.5°	5947.7	5980.0	6015.8	5886.4	5675.3	5704.2	5333.1	5682.1	6870.3	6982.6	6020.9
50°	6058.3	6169.0	6252.4	6339.2	6385.1	6580.9	5917.0	6342.6	7602.2	7820.1	6725.6
52.5°	5946.0	5937.4	6191.1	6463.4	6923.0	7333.3	6712.0	7163.1	8249.1	8679.8	7370.7
55°	5435.3	5418.3	5826.8	6187.7	7084.8	7752.0	7847.4	8255.9	9030.4	9590.5	8244.0
57.5°	4541.6	4436.1	4882.1	5474.4	6734.1	7798.0	8987.9	9878.2	10232.2	10870.6	9576.9
60°	3052.1	3007.9	3435.1	4141.6	5467.6	7146.0	9670.5	11908.9	11926.0	12644.3	11645.1
62.5°	1879.3	1887.8	2161.9	2691.3	3828.4	5665.1	9376.0	13531.2	13534.6	14254.6	13347.3
65°	1229.0	1234.1	1455.4	1748.2	2391.7	3842.0	7753.7	13658.9	14653.0	15321.9	14127.0
66°	1094.5	1096.2	1286.9	1525.2	1981.4	3144.1	6848.2	13326.9	14904.9	15463.2	14116.8
67.5°	922.6	944.7	1098.0	1281.8	1545.6	2258.9	5433.6	12366.8	14775.5	15265.8	13796.7
70°	721.8	733.7	854.5	1041.8	1159.2	1307.3	3229.2	10080.7	13524.4	14319.3	12632.4
72.5°	578.8	589.0	680.9	846.0	941.3	861.3	1758.4	7314.6	10683.3	11531.0	9936.0
75°	488.5	490.2	534.5	665.6	774.5	646.9	936.2	4694.8	6855.0	7249.9	6087.2
77.5°	394.9	401.7	432.4	507.3	623.0	509.0	558.3	2630.0	3441.9	3470.9	2813.8
80°	321.7	325.1	343.9	369.4	474.9	376.2	377.9	1283.5	1475.9	1441.8	1143.9
82.5°	253.6	257.0	279.2	274.1	349.0	269.0	234.9	617.9	679.2	665.6	526.0
85°	143.0	143.0	219.6	219.6	221.3	170.2	143.0	291.1	359.2	335.3	246.8
87.5°	46.0	47.7	66.4	69.8	110.6	76.6	69.8	108.9	170.2	149.8	88.5
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°	1995.0	1967.8	1955.9	1916.7	1906.5	1881.0	1869.1	1853.7	1848.6	1826.5	1846.9
5°	2010.4	2001.8	1954.2	1904.8	1867.4	1850.3	1824.8	1790.8	1787.4	1756.7	1753.3
7.5°	2075.0	2046.1	1962.7	1909.9	1835.0	1792.5	1736.3	1719.3	1697.1	1686.9	1709.1
10°	2175.5	2102.3	1978.0	1845.2	1753.3	1702.2	1661.4	1649.5	1651.2	1644.4	1634.2
12.5°	2247.0	2177.2	1952.5	1790.8	1671.6	1622.2	1618.8	1630.8	1649.5	1641.0	1652.9
15°	2349.1	2218.0	1933.8	1700.5	1605.2	1591.6	1589.9	1625.6	1623.9	1623.9	1622.2
17.5°	2444.4	2258.9	1865.7	1622.2	1535.4	1545.6	1557.6	1555.9	1572.9	1579.7	1591.6
20°	2565.3	2306.5	1770.3	1543.9	1482.7	1479.3	1477.6	1479.3	1496.3	1506.5	1498.0
22.5°	2670.8	2316.8	1690.3	1469.0	1419.7	1406.1	1383.9	1406.1	1397.5	1401.0	1411.2
25°	2762.8	2318.5	1576.3	1412.9	1356.7	1326.1	1309.0	1307.3	1292.0	1290.3	1290.3
27.5°	2839.4	2260.6	1475.9	1334.6	1281.8	1252.9	1251.2	1232.4	1193.3	1167.7	1171.1
30°	2898.9	2216.3	1406.1	1266.5	1215.4	1210.3	1195.0	1152.4	1101.4	1069.0	1069.0
32.5°	3004.5	2127.8	1310.7	1196.7	1171.1	1164.3	1128.6	1091.1	1043.5	1012.8	1007.7
35°	3082.8	2046.1	1247.7	1137.1	1125.2	1111.6	1080.9	1040.1	1026.5	1019.6	1024.8
37.5°	3171.3	1954.2	1171.1	1086.0	1098.0	1072.4	1036.7	1017.9	1065.6	1053.7	1058.8
40°	3312.6	1889.5	1096.2	1055.4	1067.3	1038.4	992.4	985.6	1045.2	1002.6	992.4
42.5°	3571.3	1887.8	1050.3	1009.4	1017.9	995.8	955.0	951.6	975.4	924.3	909.0
45°	3893.0	1947.4	1016.2	975.4	968.6	965.2	951.6	936.2	915.8	849.4	832.4
47.5°	4277.8	2044.4	1009.4	924.3	932.8	961.8	944.7	905.6	852.8	810.3	801.8
50°	4744.2	2245.3	992.4	886.9	902.2	948.2	934.5	880.1	832.4	805.2	800.1
52.5°	5260.0	2498.9	970.3	829.0	863.0	936.2	943.0	892.0	822.2	798.4	795.0
55°	5867.7	2873.4	944.7	766.0	817.1	924.3	943.0	857.9	808.6	808.6	805.2
57.5°	7067.7	3547.5	892.0	708.1	776.2	902.2	915.8	859.6	810.3	810.3	803.5
60°	8827.9	4599.5	791.5	663.9	737.1	871.6	895.4	834.1	791.5	801.8	800.1
62.5°	10205.0	4919.5	706.4	621.3	697.9	815.4	868.1	806.9	769.4	806.9	810.3
65°	10499.5	4596.1	619.6	575.4	643.5	760.9	829.0	767.7	737.1	810.3	813.7
66°	10393.9	4344.1	589.0	561.7	619.6	733.7	805.2	754.1	720.1	806.9	808.6
67.5°	9924.1	3966.2	554.9	532.8	587.3	694.5	777.9	735.4	692.8	796.7	781.3
70°	8902.8	3363.6	497.1	481.7	541.3	629.8	714.9	687.7	650.3	733.7	706.4
72.5°	6856.7	2687.9	435.8	437.5	488.5	563.4	652.0	633.2	600.9	643.5	626.4
75°	4175.6	1717.6	379.6	383.0	425.6	500.5	592.4	578.8	539.6	563.4	554.9
77.5°	1850.3	851.1	320.0	326.8	360.9	440.9	515.8	493.7	452.8	457.9	454.5
80°	718.3	403.4	260.4	269.0	291.1	352.4	427.3	406.8	371.1	364.3	360.9
82.5°	345.6	224.7	200.9	204.3	212.8	280.9	367.7	342.2	294.5	263.8	263.8
85°	173.6	139.6	141.3	129.4	141.3	190.7	248.5	207.7	171.9	153.2	156.6
87.5°	69.8	69.8	69.8	59.6	63.0	90.2	115.8	78.3	71.5	42.6	42.6
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)