

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: P477133

Luminaire Tested: **IFLD-L-SA8A-827-U-T2R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P477133
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-827-U-T2R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens
Light Source: (128) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

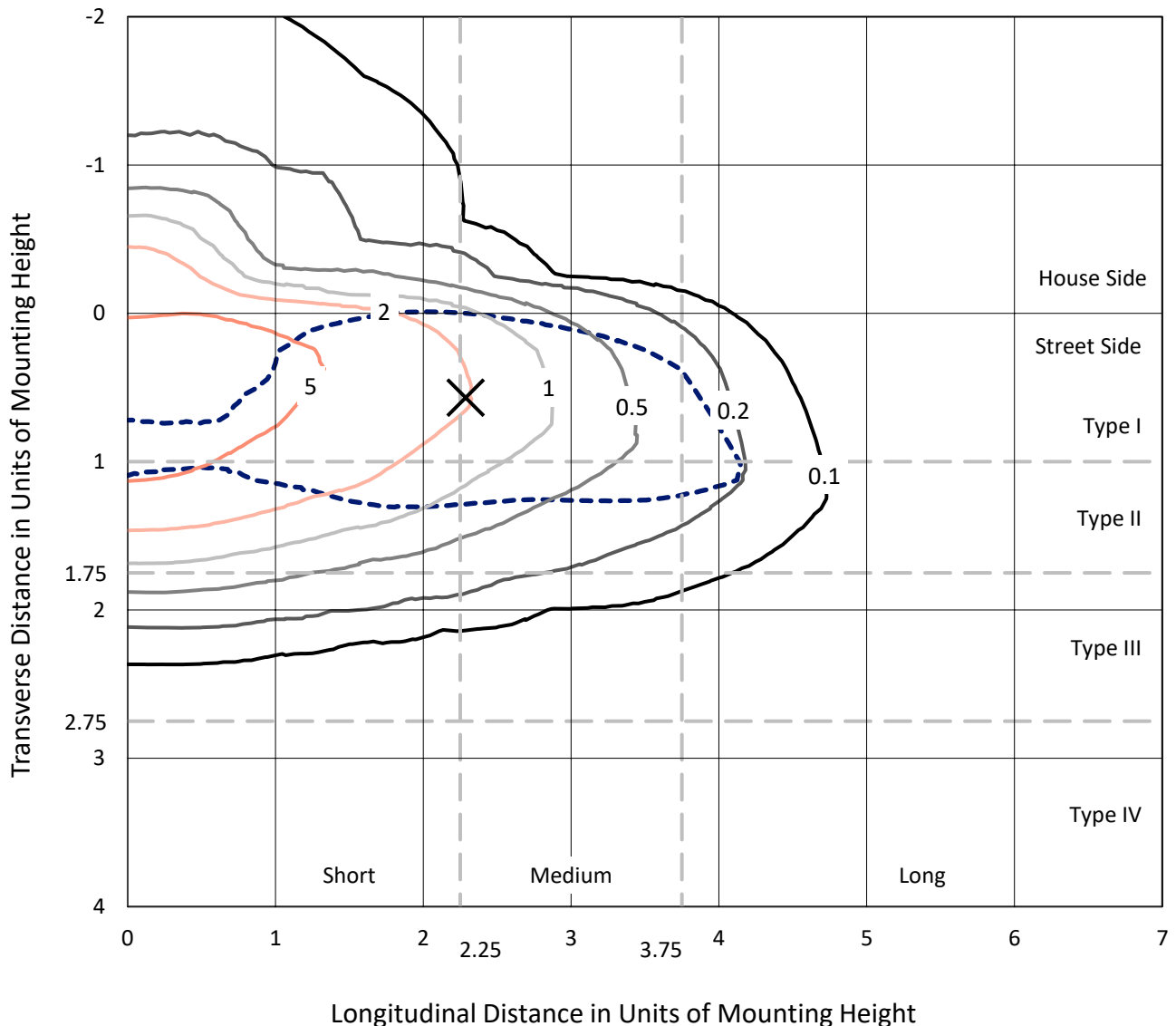
Lumens per Lamp: N/A
Luminaire Lumens: 25323.3 lumens
Efficiency: N/A
Efficacy: 102.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 247.8
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

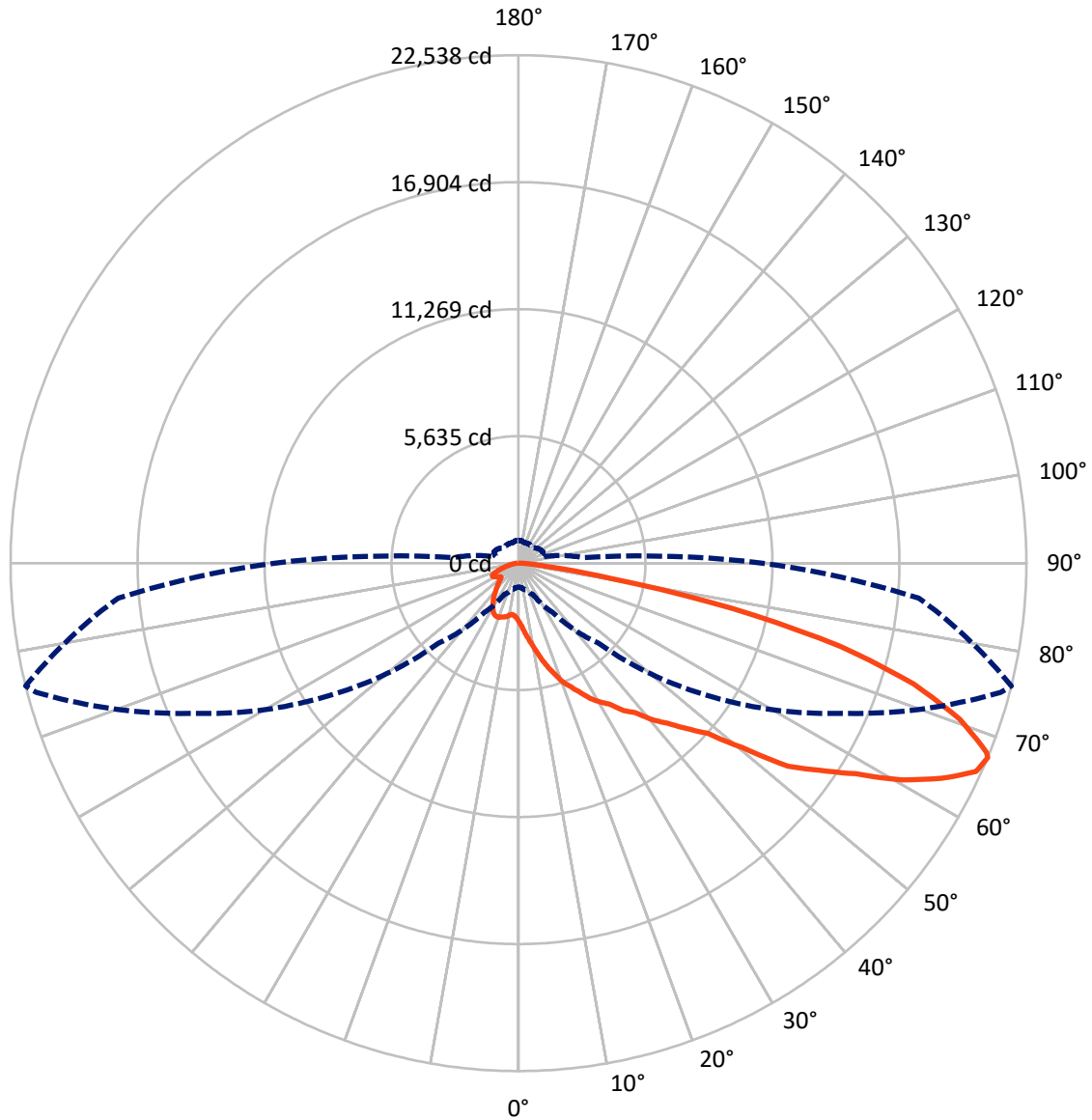
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3602.6	0.0	3602.6
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	21720.7	0.0	21720.7
	% Fixture	85.8	0.0	85.8
Total	Lumens	25323.3	0.0	25323.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	300.2	1.2
10°-20°	1125.8	4.4
20°-30°	2093.1	8.3
30°-40°	3318.0	13.1
40°-50°	4589.1	18.1
50°-60°	5644.9	22.3
60°-70°	5252.9	20.7
70°-80°	2635.8	10.4
80°-90°	363.4	1.4
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°	25323.3	100.0
0°-180°	25323.3	100.0

Coefficient of Utilization



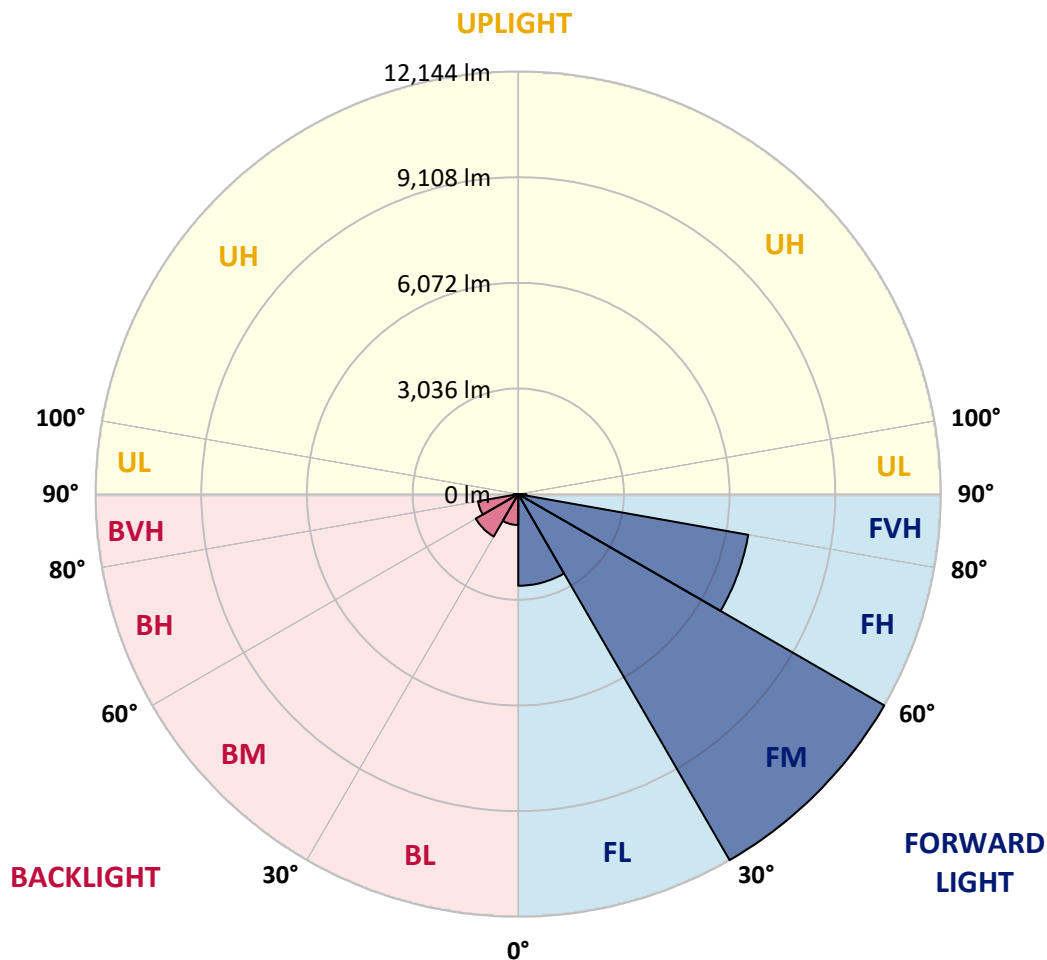
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2631.9	10.4			
FM (30°-60°)	12144.2	48.0			
FH (60°-80°)	6713.0	26.5			G3/7500
FVH (80°-90°)	231.6	0.9			G3/500
BL (0°-30°)	887.2	3.5	B2/1000		
BM (30°-60°)	1407.8	5.6	B2/2500		
BH (60°-80°)	1175.7	4.6	B3/2500		G3/2500
BVH (80°-90°)	131.9	0.5			G2/225
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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2591.5	2591.5	2591.5	2591.5	2591.5	2591.5	2591.5	2591.5	2591.5	2591.5	2591.5
2.5°	3595.7	3552.4	3509.1	3416.8	3385.0	3298.5	3139.8	2963.7	2819.4	2799.2	2698.2
5°	4461.5	4398.0	4383.5	4331.6	4167.1	3999.7	3740.0	3457.2	3105.1	3131.1	2784.8
7.5°	5110.8	5073.2	4995.3	4946.3	4848.1	4625.9	4357.6	3982.4	3535.1	3448.5	2978.1
10°	5601.3	5549.4	5546.5	5503.2	5451.3	5223.3	5018.4	4513.4	3939.1	3820.8	3214.8
12.5°	5849.5	5840.9	5993.8	5993.8	5973.6	5878.4	5526.3	5064.6	4322.9	4282.5	3488.9
15°	6117.9	6045.8	6178.5	6279.5	6331.5	6380.5	6089.0	5601.3	4813.5	4735.6	3783.3
17.5°	6117.9	6112.1	6244.9	6412.3	6683.5	6747.0	6588.3	6094.8	5220.4	5162.7	4106.5
20°	6014.0	6097.7	6190.0	6415.1	6709.5	6966.3	7012.5	6599.8	5670.6	5624.4	4473.0
22.5°	6498.8	6418.0	6513.3	6599.8	6827.8	7217.4	7344.4	7044.2	6143.9	5967.8	4804.9
25°	7312.6	7257.8	7188.5	7061.6	7156.8	7327.1	7520.4	7373.2	6547.9	6351.7	5125.2
27.5°	8106.2	8109.1	7959.0	7682.0	7477.1	7511.7	7739.7	7661.8	6888.4	6801.8	5344.5
30°	9234.6	9165.3	8997.9	8622.8	8221.7	7892.7	7855.2	7930.2	7321.3	7153.9	5659.1
32.5°	10080.1	10094.5	9857.9	9318.3	8770.0	8501.6	8172.6	8204.3	7595.4	7471.3	5910.1
35°	10764.0	10746.7	10579.4	10132.1	9482.7	9159.5	8715.1	8533.3	8233.2	8037.0	6293.9
37.5°	11502.8	11361.4	11090.1	10585.1	10169.6	9722.3	9289.4	8879.6	8657.4	8420.8	6622.9
40°	11800.0	11800.0	11436.4	11205.6	10712.1	10374.5	10094.5	9335.6	9174.0	9127.8	7044.2
42.5°	11589.4	11719.2	11569.2	11306.6	11104.6	10677.5	10602.4	9808.8	9811.7	9719.4	7549.3
45°	11569.2	11390.3	11266.2	11332.5	11237.3	11214.2	11404.7	10463.9	10481.2	10469.7	8227.4
47.5°	10989.1	10908.3	11093.0	11202.7	11280.6	11638.4	12186.7	11246.0	11370.1	11283.5	9009.5
50°	10412.0	10397.5	10513.0	10911.2	11248.9	11837.6	12931.3	12452.2	12859.1	12853.4	10426.4
52.5°	8830.6	8983.5	9436.6	10279.2	11113.2	12108.8	13494.0	13993.3	14769.5	14980.2	11600.9
55°	7318.4	7237.6	7907.1	9130.7	10521.6	12215.6	14123.1	14919.6	16062.4	16215.3	12807.2
57.5°	5693.7	5843.8	6371.9	7546.4	9298.1	11687.5	14584.8	15834.4	17522.6	17640.9	14206.8
60°	4247.9	4268.1	4848.1	5794.7	7670.5	10495.7	14734.9	16772.3	19196.4	19534.0	15672.8
62.5°	2672.3	2793.5	3235.0	4167.1	5774.5	8827.7	14062.5	17340.8	20950.9	21040.4	17150.3
65°	1440.0	1517.9	1849.8	2435.6	4034.4	6677.7	12279.1	17000.3	21776.3	22307.3	17808.3
67°	1064.9	1079.3	1232.2	1555.4	2698.2	5027.1	10238.8	15768.0	22151.4	22538.1	17834.3
67.5°	998.5	1018.7	1139.9	1396.7	2392.3	4628.8	9705.0	15329.4	21984.0	22399.6	17632.3
70°	854.2	860.0	888.8	961.0	1341.9	2784.8	6608.5	12561.9	20376.7	20774.9	16215.3
72.5°	759.0	764.7	776.3	790.7	909.0	1610.3	4019.9	9667.4	17710.2	18345.1	13990.4
75°	666.6	686.8	692.6	681.0	773.4	1047.5	2138.4	7104.8	14446.3	14755.1	10879.5
77.5°	565.6	574.3	585.8	597.4	689.7	782.1	1027.3	4796.2	9915.6	9728.0	5884.2
80°	476.2	479.0	487.7	496.4	597.4	597.4	582.9	2591.5	4331.6	4141.1	1988.3
82.5°	340.5	360.7	380.9	404.0	496.4	401.1	380.9	1154.3	1370.8	1304.4	672.4
85°	132.7	161.6	251.1	277.0	314.6	216.4	254.0	499.2	571.4	565.6	251.1
87.5°	23.1	26.0	69.3	106.8	115.4	75.0	121.2	178.9	213.5	230.9	92.3
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°	2591.5	2591.5	2591.5	2591.5	2591.5	2591.5	2591.5	2591.5	2591.5	2591.5	2591.5
2.5°	2614.5	2525.1	2418.3	2311.5	2242.3	2132.6	2124.0	2057.6	2048.9	2025.8	2037.4
5°	2634.7	2528.0	2311.5	2141.3	2063.3	1999.9	2014.3	1985.4	1976.8	1962.3	1939.3
7.5°	2793.5	2582.8	2259.6	2112.4	2054.7	2025.8	2025.8	1991.2	1965.2	1982.5	1999.9
10°	2897.3	2608.8	2300.0	2152.8	2106.6	2043.1	2066.2	2022.9	2037.4	2002.7	2002.7
12.5°	3064.7	2755.9	2383.7	2213.4	2138.4	2080.7	2103.8	2054.7	2043.1	2046.0	2037.4
15°	3289.8	2854.1	2421.2	2248.0	2196.1	2124.0	2106.6	2063.3	2020.1	2005.6	2022.9
17.5°	3500.5	2975.3	2447.2	2268.2	2184.6	2103.8	2083.5	2028.7	2014.3	1971.0	1936.4
20°	3751.5	3119.6	2481.8	2285.6	2141.3	2060.5	2008.5	1953.7	1904.6	1878.7	1890.2
22.5°	3918.9	3194.6	2499.1	2250.9	2077.8	2002.7	1893.1	1855.6	1786.3	1757.5	1734.4
25°	4193.1	3286.9	2455.8	2155.7	1965.2	1844.0	1745.9	1694.0	1644.9	1607.4	1595.8
27.5°	4262.3	3356.2	2354.8	1994.1	1786.3	1659.3	1575.6	1512.2	1480.4	1422.7	1411.2
30°	4464.3	3286.9	2204.8	1797.9	1616.0	1486.2	1402.5	1356.3	1281.3	1266.9	1235.1
32.5°	4594.2	3307.1	2014.3	1607.4	1419.8	1304.4	1249.6	1203.4	1183.2	1113.9	1096.6
35°	4810.6	3237.9	1820.9	1431.4	1258.2	1168.8	1122.6	1108.1	1041.8	1010.0	981.2
37.5°	4949.2	3197.5	1627.6	1232.2	1082.2	1044.7	1059.1	998.5	917.7	857.1	836.9
40°	5191.6	3183.0	1408.3	1067.7	961.0	952.3	998.5	883.1	735.9	683.9	655.1
42.5°	5540.7	3084.9	1238.0	920.6	865.7	903.3	911.9	735.9	652.2	608.9	588.7
45°	5875.5	3105.1	1070.6	761.9	753.2	808.0	787.8	623.3	574.3	542.5	559.8
47.5°	6519.0	3206.1	906.1	634.9	678.2	730.1	611.8	557.0	510.8	487.7	490.6
50°	7514.6	3304.2	761.9	580.0	640.6	660.8	525.2	505.0	502.1	456.0	453.1
52.5°	8112.0	3266.7	735.9	649.3	686.8	660.8	571.4	557.0	533.9	513.7	490.6
55°	9061.4	3376.4	790.7	759.0	779.2	634.9	640.6	634.9	617.6	565.6	580.0
57.5°	9817.5	3448.5	862.9	848.4	836.9	660.8	669.5	672.4	660.8	637.8	658.0
60°	10856.4	3592.8	937.9	940.8	943.7	718.6	733.0	750.3	747.4	738.8	744.5
62.5°	11494.2	3526.5	1021.6	1067.7	1053.3	836.9	834.0	845.5	845.5	860.0	868.6
65°	11398.9	3281.2	1064.9	1180.3	1105.3	923.5	923.5	929.2	932.1	961.0	963.9
67°	10827.5	2842.5	1041.8	1197.6	1105.3	958.1	958.1	963.9	943.7	1018.7	995.6
67.5°	10562.0	2712.7	1021.6	1183.2	1096.6	955.2	955.2	958.1	940.8	1012.9	989.8
70°	9185.5	2014.3	880.2	1047.5	1015.8	929.2	929.2	911.9	897.5	992.7	972.5
72.5°	7840.7	1463.1	707.0	891.7	917.7	894.6	900.4	857.1	816.7	883.1	865.7
75°	6005.4	1076.4	551.2	686.8	776.3	836.9	874.4	764.7	712.8	730.1	698.4
77.5°	3350.4	701.3	435.8	507.9	591.6	779.2	839.8	689.7	582.9	562.7	562.7
80°	1137.0	409.8	320.3	378.0	406.9	689.7	784.9	559.8	458.8	438.6	424.2
82.5°	430.0	251.1	219.3	259.7	259.7	545.4	640.6	430.0	346.3	447.3	456.0
85°	196.2	150.1	144.3	150.1	150.1	334.8	453.1	279.9	311.7	268.4	236.6
87.5°	77.9	72.1	66.4	63.5	51.9	57.7	155.8	75.0	141.4	37.5	34.6
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)