

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: P476852

Luminaire Tested: **IFLD-M-SA4C-722-U-T2R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476852
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-722-U-T2R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

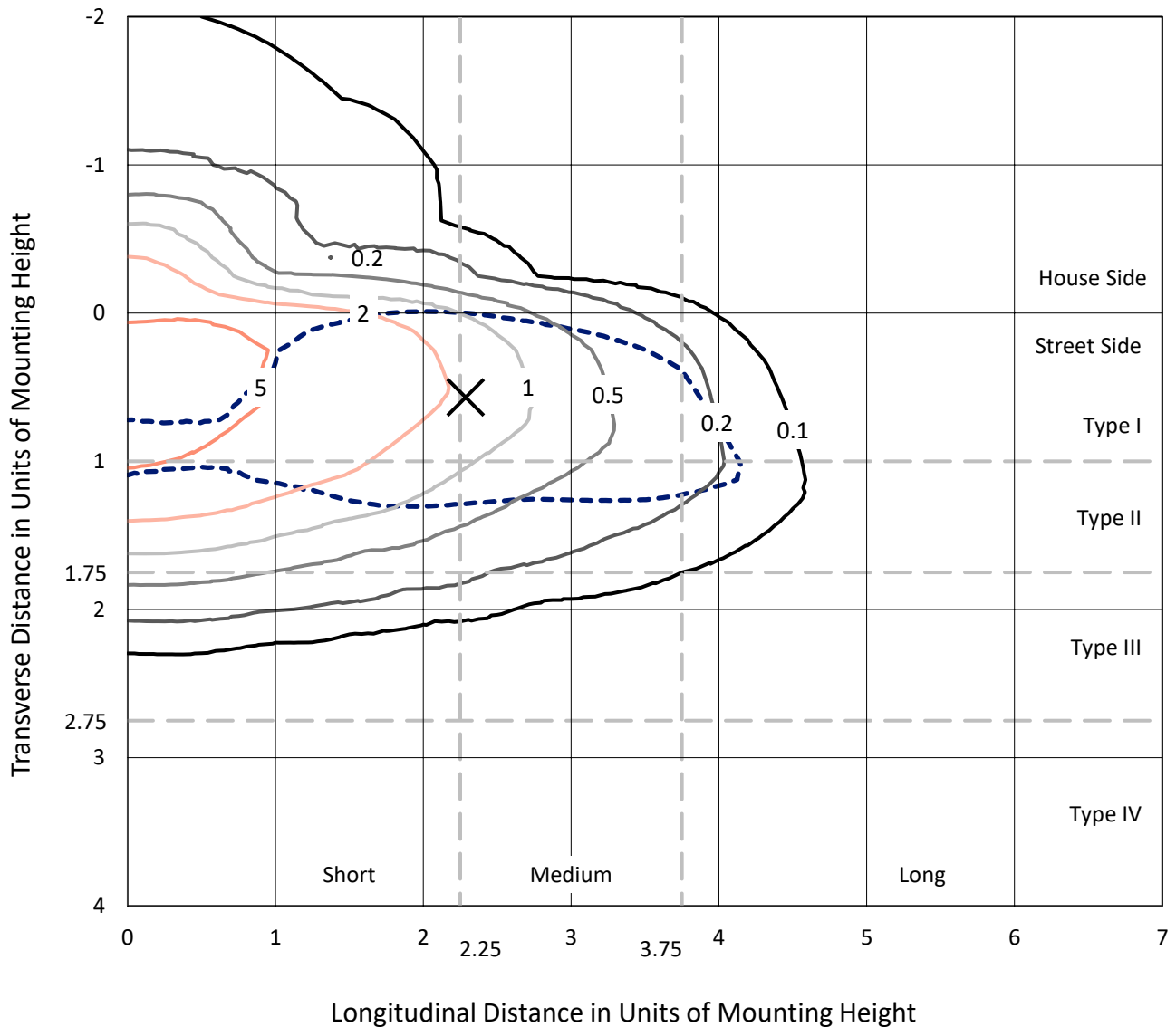
Lumens per Lamp: N/A
Luminaire Lumens: 21060.5 lumens
Efficiency: N/A
Efficacy: 96.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G3

Input Watts (W): 218.1
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

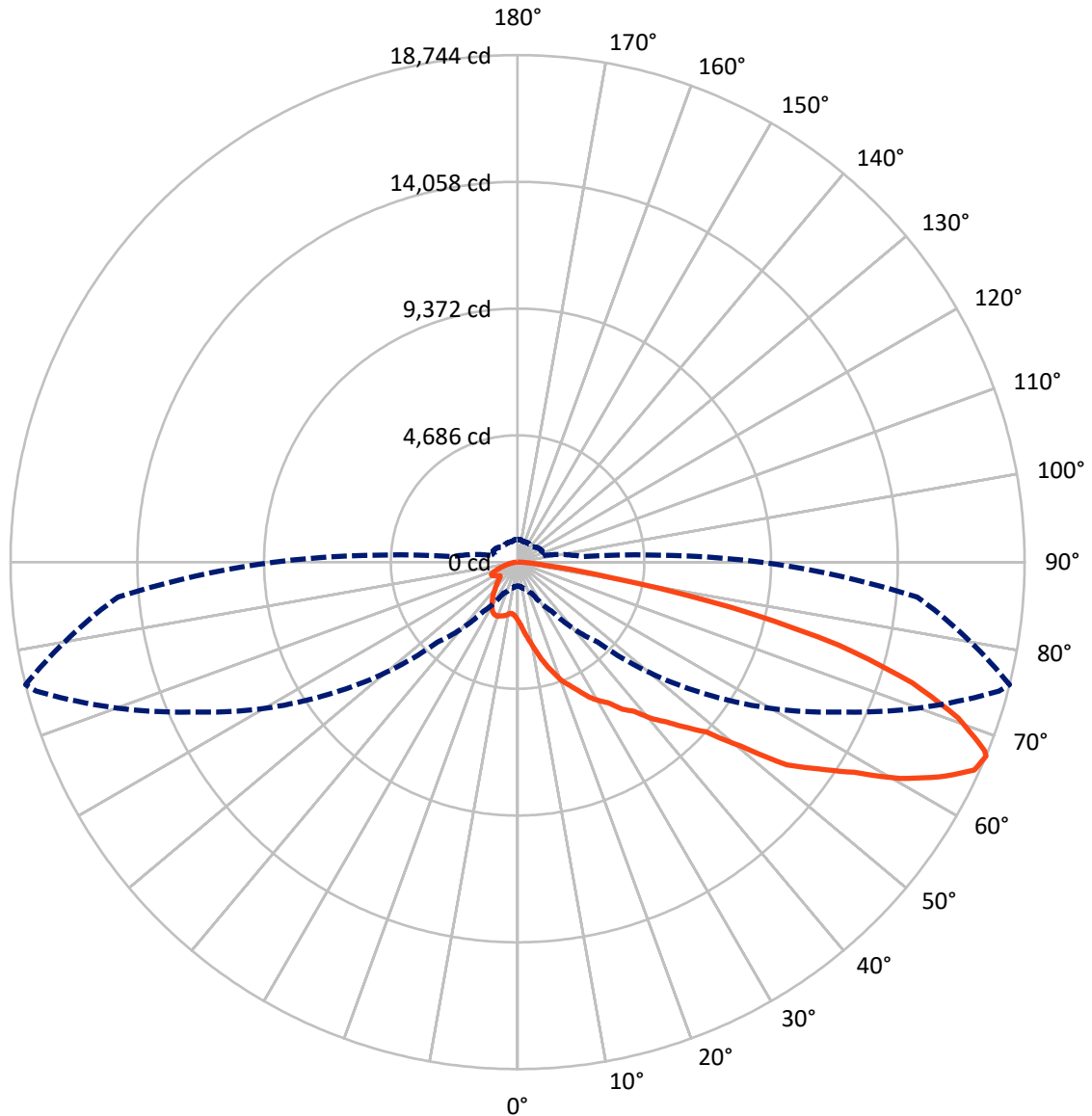
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 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	2996.1	0.0	2996.1
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	18064.4	0.0	18064.4
	% Fixture	85.8	0.0	85.8
Total	Lumens	21060.5	0.0	21060.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	249.6	1.2
10°-20°	936.3	4.4
20°-30°	1740.7	8.3
30°-40°	2759.5	13.1
40°-50°	3816.6	18.1
50°-60°	4694.7	22.3
60°-70°	4368.6	20.7
70°-80°	2192.1	10.4
80°-90°	302.3	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°	21060.5	100.0
0°-180°	21060.5	100.0

Coefficient of Utilization



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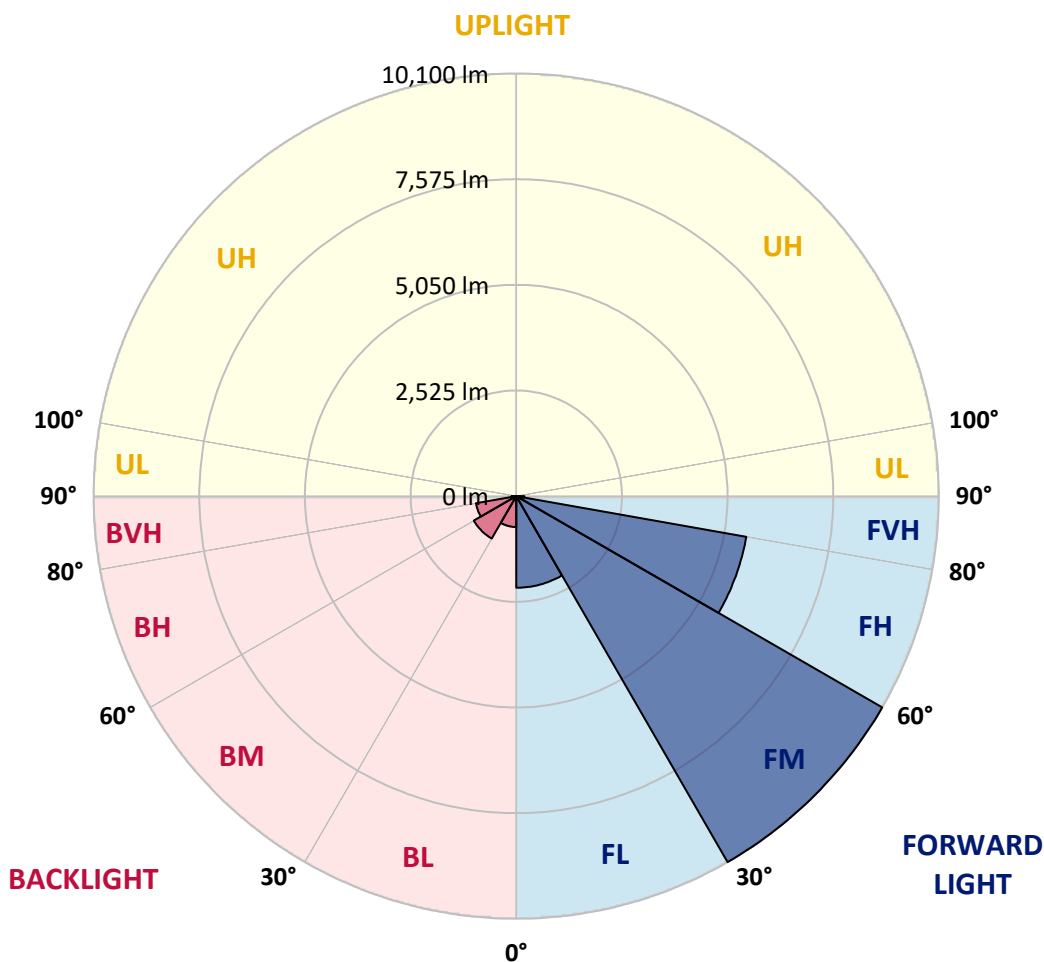
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2188.9	10.4			
FM (30°-60°)	10099.9	48.0			
FH (60°-80°)	5583.0	26.5			G3/7500
FVH (80°-90°)	192.6	0.9			G2/225
BL (0°-30°)	737.8	3.5	B2/1000		
BM (30°-60°)	1170.8	5.6	B2/2500		
BH (60°-80°)	977.8	4.6	B2/1000		G2/1000
BVH (80°-90°)	109.7	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2155.2	2155.2	2155.2	2155.2	2155.2	2155.2	2155.2	2155.2	2155.2	2155.2	2155.2
2.5°	2990.4	2954.4	2918.4	2841.6	2815.2	2743.2	2611.2	2464.8	2344.8	2328.0	2244.0
5°	3710.4	3657.6	3645.6	3602.4	3465.6	3326.4	3110.4	2875.2	2582.4	2604.0	2316.0
7.5°	4250.4	4219.2	4154.4	4113.6	4032.0	3847.2	3624.0	3312.0	2940.0	2868.0	2476.8
10°	4658.4	4615.2	4612.8	4576.8	4533.6	4344.0	4173.6	3753.6	3276.0	3177.6	2673.6
12.5°	4864.8	4857.6	4984.8	4984.8	4968.0	4888.8	4596.0	4212.0	3595.2	3561.6	2901.6
15°	5088.0	5028.0	5138.4	5222.4	5265.6	5306.4	5064.0	4658.4	4003.2	3938.4	3146.4
17.5°	5088.0	5083.2	5193.6	5332.8	5558.4	5611.2	5479.2	5068.8	4341.6	4293.6	3415.2
20°	5001.6	5071.2	5148.0	5335.2	5580.0	5793.6	5832.0	5488.8	4716.0	4677.6	3720.0
22.5°	5404.8	5337.6	5416.8	5488.8	5678.4	6002.5	6108.1	5858.4	5109.6	4963.2	3996.0
25°	6081.7	6036.1	5978.5	5872.8	5952.1	6093.7	6254.5	6132.1	5445.6	5282.4	4262.4
27.5°	6741.7	6744.1	6619.3	6388.9	6218.5	6247.3	6436.9	6372.1	5728.8	5656.8	4444.8
30°	7680.1	7622.5	7483.3	7171.3	6837.7	6564.1	6532.9	6595.3	6088.9	5949.7	4706.4
32.5°	8383.3	8395.3	8198.5	7749.7	7293.7	7070.5	6796.9	6823.3	6316.9	6213.7	4915.2
35°	8952.1	8937.7	8798.5	8426.5	7886.5	7617.7	7248.1	7096.9	6847.3	6684.1	5234.4
37.5°	9566.5	9448.9	9223.3	8803.3	8457.7	8085.7	7725.7	7384.9	7200.1	7003.3	5508.0
40°	9813.7	9813.7	9511.3	9319.3	8908.9	8628.1	8395.3	7764.1	7629.7	7591.3	5858.4
42.5°	9638.5	9746.5	9621.7	9403.3	9235.3	8880.1	8817.7	8157.7	8160.1	8083.3	6278.5
45°	9621.7	9472.9	9369.7	9424.9	9345.7	9326.5	9484.9	8702.5	8716.9	8707.3	6842.5
47.5°	9139.3	9072.1	9225.7	9316.9	9381.7	9679.3	10135.3	9352.9	9456.1	9384.1	7492.9
50°	8659.3	8647.3	8743.3	9074.5	9355.3	9844.9	10754.5	10356.1	10694.5	10689.7	8671.3
52.5°	7344.1	7471.3	7848.1	8548.9	9242.5	10070.5	11222.5	11637.7	12283.3	12458.5	9648.1
55°	6086.5	6019.3	6576.1	7593.7	8750.5	10159.3	11745.7	12408.1	13358.5	13485.7	10651.3
57.5°	4735.2	4860.0	5299.2	6276.1	7732.9	9720.1	12129.7	13168.9	14572.9	14671.3	11815.3
60°	3532.8	3549.6	4032.0	4819.2	6379.3	8728.9	12254.5	13948.9	15964.9	16245.7	13034.5
62.5°	2222.4	2323.2	2690.4	3465.6	4802.4	7341.7	11695.3	14421.7	17424.1	17498.5	14263.3
65°	1197.6	1262.4	1538.4	2025.6	3355.2	5553.6	10212.1	14138.5	18110.6	18552.2	14810.5
67°	885.6	897.6	1024.8	1293.6	2244.0	4180.8	8515.3	13113.7	18422.6	18744.2	14832.1
67.5°	830.4	847.2	948.0	1161.6	1989.6	3849.6	8071.3	12748.9	18283.4	18629.0	14664.1
70°	710.4	715.2	739.2	799.2	1116.0	2316.0	5496.0	10447.3	16946.5	17277.7	13485.7
72.5°	631.2	636.0	645.6	657.6	756.0	1339.2	3343.2	8040.1	14728.9	15256.9	11635.3
75°	554.4	571.2	576.0	566.4	643.2	871.2	1778.4	5908.8	12014.5	12271.3	9048.1
77.5°	470.4	477.6	487.2	496.8	573.6	650.4	854.4	3988.8	8246.5	8090.5	4893.6
80°	396.0	398.4	405.6	412.8	496.8	496.8	484.8	2155.2	3602.4	3444.0	1653.6
82.5°	283.2	300.0	316.8	336.0	412.8	333.6	316.8	960.0	1140.0	1084.8	559.2
85°	110.4	134.4	208.8	230.4	261.6	180.0	211.2	415.2	475.2	470.4	208.8
87.5°	19.2	21.6	57.6	88.8	96.0	62.4	100.8	148.8	177.6	192.0	76.8
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°	2155.2	2155.2	2155.2	2155.2	2155.2	2155.2	2155.2	2155.2	2155.2	2155.2	2155.2
2.5°	2174.4	2100.0	2011.2	1922.4	1864.8	1773.6	1766.4	1711.2	1704.0	1684.8	1694.4
5°	2191.2	2102.4	1922.4	1780.8	1716.0	1663.2	1675.2	1651.2	1644.0	1632.0	1612.8
7.5°	2323.2	2148.0	1879.2	1756.8	1708.8	1684.8	1684.8	1656.0	1634.4	1648.8	1663.2
10°	2409.6	2169.6	1912.8	1790.4	1752.0	1699.2	1718.4	1682.4	1694.4	1665.6	1665.6
12.5°	2548.8	2292.0	1982.4	1840.8	1778.4	1730.4	1749.6	1708.8	1699.2	1701.6	1694.4
15°	2736.0	2373.6	2013.6	1869.6	1826.4	1766.4	1752.0	1716.0	1680.0	1668.0	1682.4
17.5°	2911.2	2474.4	2035.2	1886.4	1816.8	1749.6	1732.8	1687.2	1675.2	1639.2	1610.4
20°	3120.0	2594.4	2064.0	1900.8	1780.8	1713.6	1670.4	1624.8	1584.0	1562.4	1572.0
22.5°	3259.2	2656.8	2078.4	1872.0	1728.0	1665.6	1574.4	1543.2	1485.6	1461.6	1442.4
25°	3487.2	2733.6	2042.4	1792.8	1634.4	1533.6	1452.0	1408.8	1368.0	1336.8	1327.2
27.5°	3544.8	2791.2	1958.4	1658.4	1485.6	1380.0	1310.4	1257.6	1231.2	1183.2	1173.6
30°	3712.8	2733.6	1833.6	1495.2	1344.0	1236.0	1166.4	1128.0	1065.6	1053.6	1027.2
32.5°	3820.8	2750.4	1675.2	1336.8	1180.8	1084.8	1039.2	1000.8	984.0	926.4	912.0
35°	4000.8	2692.8	1514.4	1190.4	1046.4	972.0	933.6	921.6	866.4	840.0	816.0
37.5°	4116.0	2659.2	1353.6	1024.8	900.0	868.8	880.8	830.4	763.2	712.8	696.0
40°	4317.6	2647.2	1171.2	888.0	799.2	792.0	830.4	734.4	612.0	568.8	544.8
42.5°	4608.0	2565.6	1029.6	765.6	720.0	751.2	758.4	612.0	542.4	506.4	489.6
45°	4886.4	2582.4	890.4	633.6	626.4	672.0	655.2	518.4	477.6	451.2	465.6
47.5°	5421.6	2666.4	753.6	528.0	564.0	607.2	508.8	463.2	424.8	405.6	408.0
50°	6249.7	2748.0	633.6	482.4	532.8	549.6	436.8	420.0	417.6	379.2	376.8
52.5°	6746.5	2716.8	612.0	540.0	571.2	549.6	475.2	463.2	444.0	427.2	408.0
55°	7536.1	2808.0	657.6	631.2	648.0	528.0	532.8	528.0	513.6	470.4	482.4
57.5°	8164.9	2868.0	717.6	705.6	696.0	549.6	556.8	559.2	549.6	530.4	547.2
60°	9028.9	2988.0	780.0	782.4	784.8	597.6	609.6	624.0	621.6	614.4	619.2
62.5°	9559.3	2932.8	849.6	888.0	876.0	696.0	693.6	703.2	703.2	715.2	722.4
65°	9480.1	2728.8	885.6	981.6	919.2	768.0	768.0	772.8	775.2	799.2	801.6
67°	9004.9	2364.0	866.4	996.0	919.2	796.8	796.8	801.6	784.8	847.2	828.0
67.5°	8784.1	2256.0	849.6	984.0	912.0	794.4	794.4	796.8	782.4	842.4	823.2
70°	7639.3	1675.2	732.0	871.2	844.8	772.8	772.8	758.4	746.4	825.6	808.8
72.5°	6520.9	1216.8	588.0	741.6	763.2	744.0	748.8	712.8	679.2	734.4	720.0
75°	4994.4	895.2	458.4	571.2	645.6	696.0	727.2	636.0	592.8	607.2	580.8
77.5°	2786.4	583.2	362.4	422.4	492.0	648.0	698.4	573.6	484.8	468.0	468.0
80°	945.6	340.8	266.4	314.4	338.4	573.6	652.8	465.6	381.6	364.8	352.8
82.5°	357.6	208.8	182.4	216.0	216.0	453.6	532.8	357.6	288.0	372.0	379.2
85°	163.2	124.8	120.0	124.8	124.8	278.4	376.8	232.8	259.2	223.2	196.8
87.5°	64.8	60.0	55.2	52.8	43.2	48.0	129.6	62.4	117.6	31.2	28.8
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)