

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: P477125

Luminaire Tested: **IFLD-M-SA4C-827-U-T2R**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477125
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-827-U-T2R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens
Light Source: (64) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

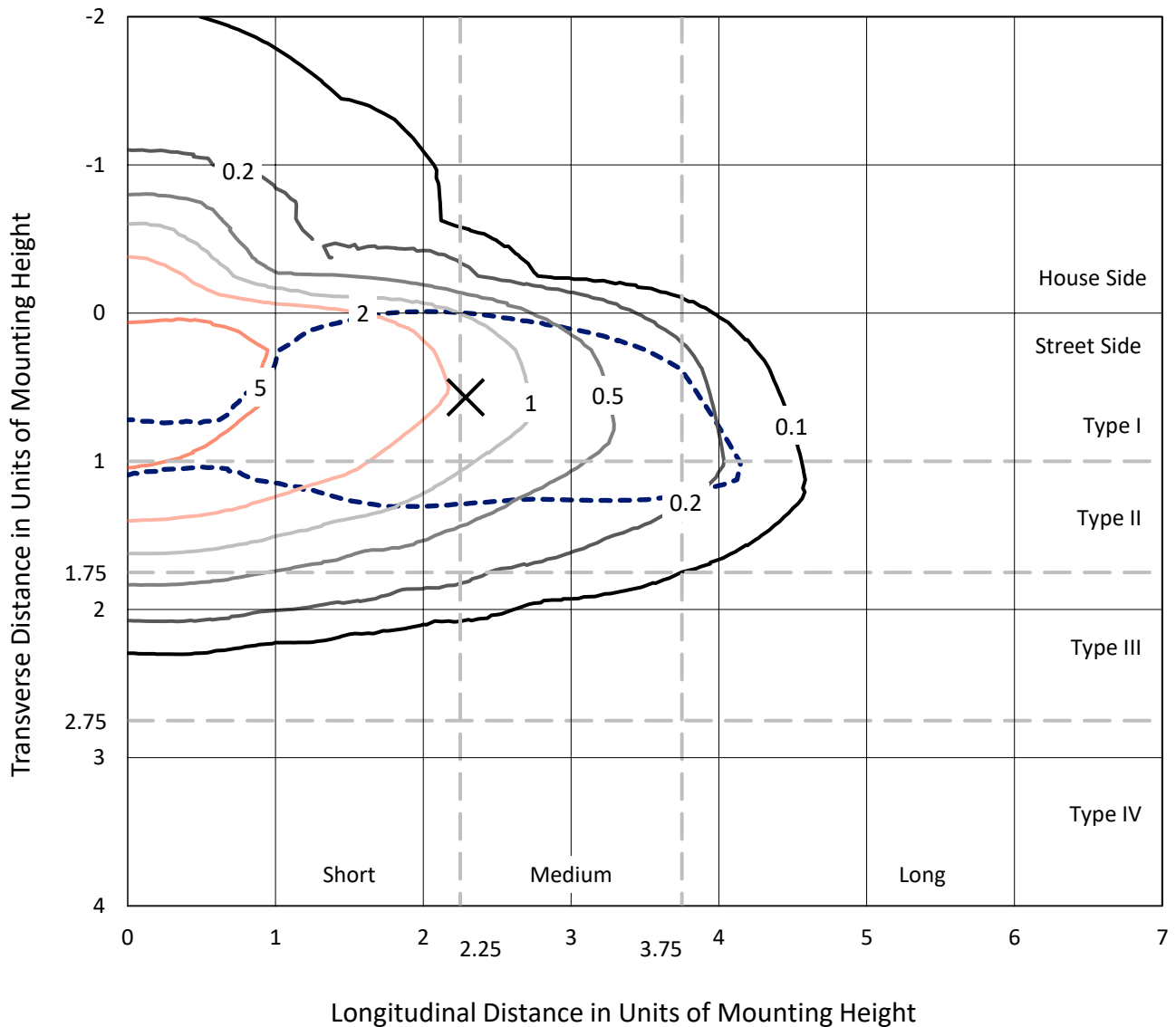
Lumens per Lamp: N/A
Luminaire Lumens: 21017.6 lumens
Efficiency: N/A
Efficacy: 96.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G3

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

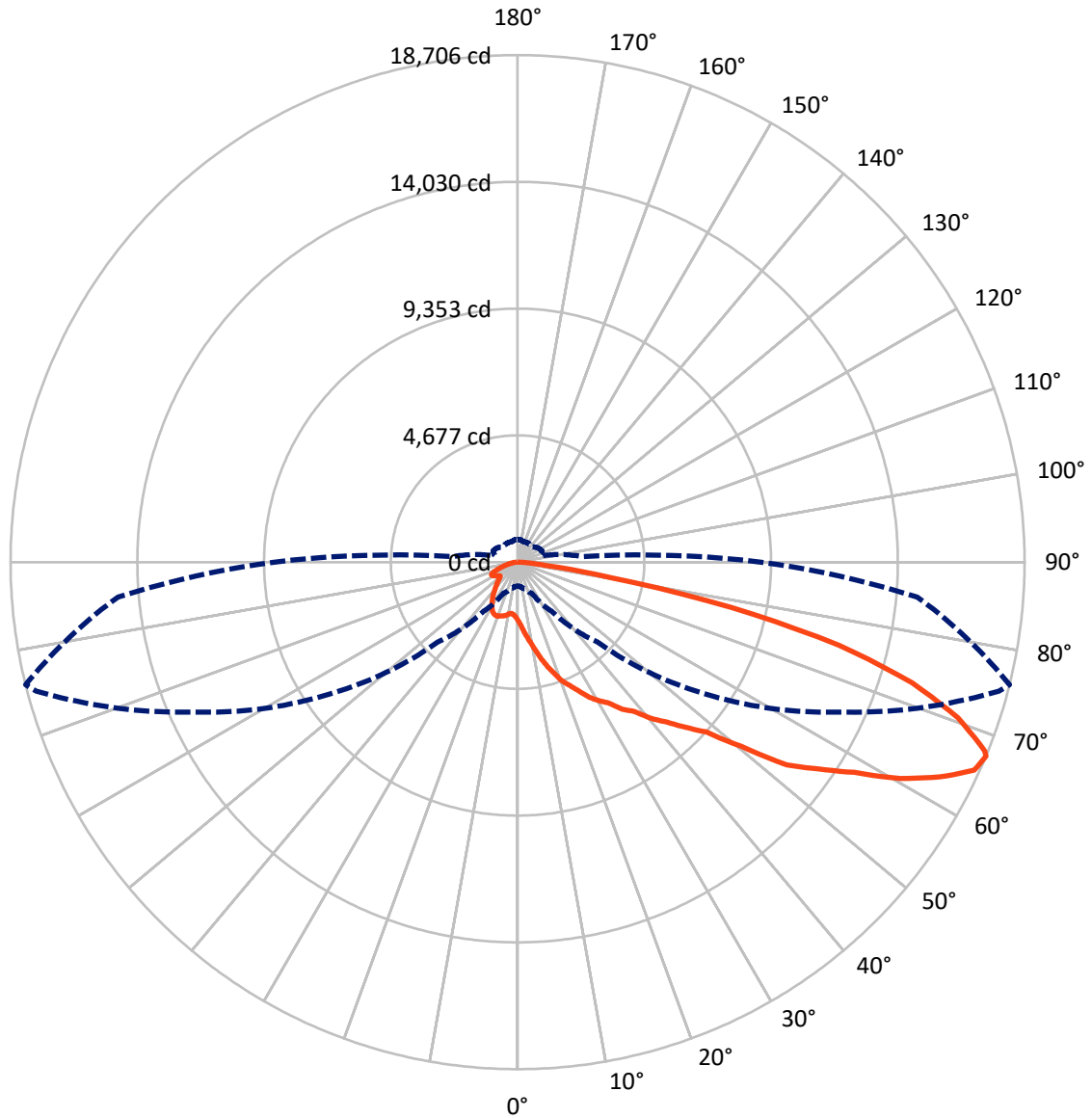
× Max cd
 - - - 1/2 Max cd



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	2990.0	0.0	2990.0
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	18027.6	0.0	18027.6
	% Fixture	85.8	0.0	85.8
Total	Lumens	21017.6	0.0	21017.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	249.1	1.2
10°-20°	934.4	4.4
20°-30°	1737.2	8.3
30°-40°	2753.9	13.1
40°-50°	3808.8	18.1
50°-60°	4685.1	22.3
60°-70°	4359.7	20.7
70°-80°	2187.7	10.4
80°-90°	301.7	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°	21017.6	100.0
0°-180°	21017.6	100.0

Coefficient of Utilization



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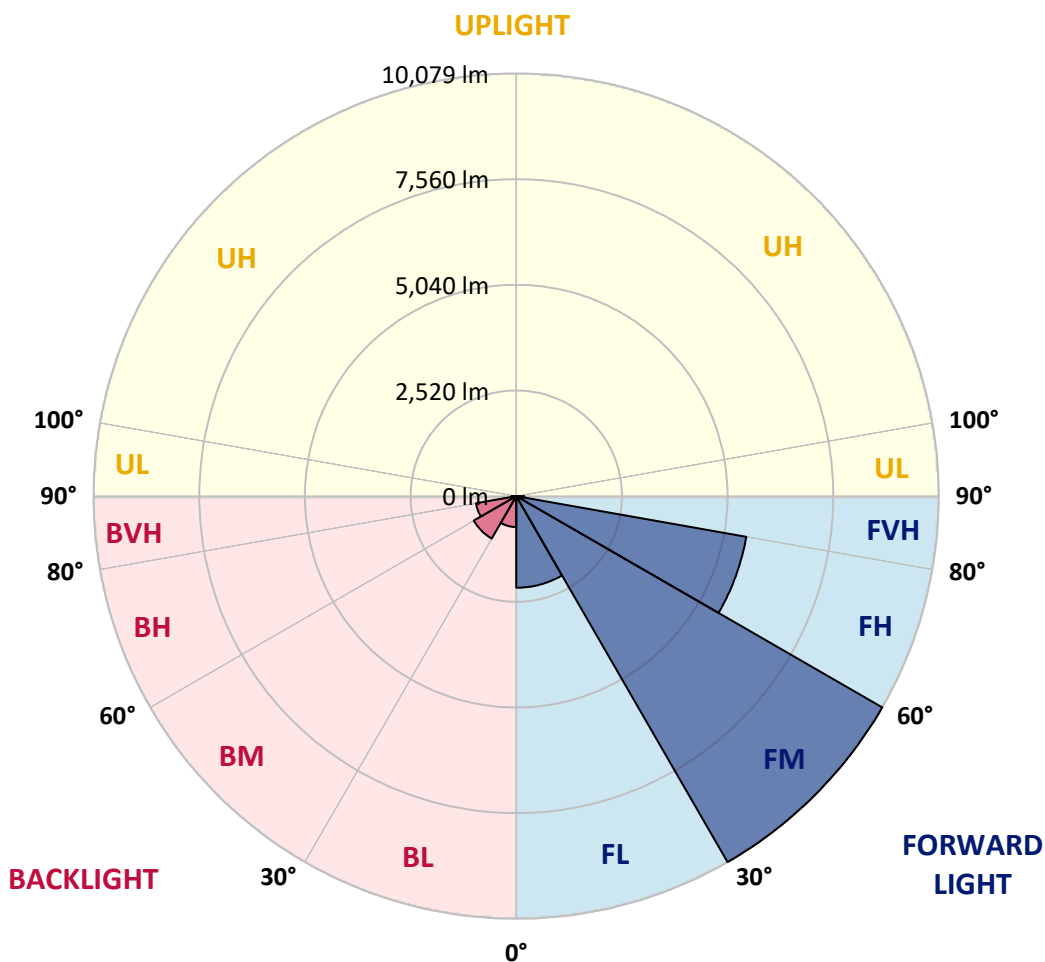
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2184.4	10.4			
FM (30°-60°)	10079.4	48.0			
FH (60°-80°)	5571.6	26.5			G3/7500
FVH (80°-90°)	192.2	0.9			G2/225
BL (0°-30°)	736.3	3.5	B2/1000		
BM (30°-60°)	1168.4	5.6	B2/2500		
BH (60°-80°)	975.8	4.6	B2/1000		G2/1000
BVH (80°-90°)	109.5	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°	2150.8	2150.8	2150.8	2150.8	2150.8	2150.8	2150.8	2150.8	2150.8	2150.8	2150.8
2.5°	2984.3	2948.4	2912.5	2835.8	2809.5	2737.6	2605.9	2459.8	2340.0	2323.3	2239.4
5°	3702.9	3650.2	3638.2	3595.1	3458.6	3319.7	3104.1	2869.4	2577.2	2598.7	2311.3
7.5°	4241.8	4210.6	4146.0	4105.3	4023.8	3839.4	3616.7	3305.3	2934.0	2862.2	2471.8
10°	4649.0	4605.8	4603.4	4567.5	4524.4	4335.2	4165.1	3746.0	3269.4	3171.2	2668.2
12.5°	4854.9	4847.7	4974.7	4974.7	4957.9	4878.9	4586.7	4203.5	3587.9	3554.4	2895.7
15°	5077.7	5017.8	5128.0	5211.8	5254.9	5295.6	5053.7	4649.0	3995.1	3930.4	3140.0
17.5°	5077.7	5072.9	5183.1	5322.0	5547.1	5599.8	5468.1	5058.5	4332.8	4284.9	3408.3
20°	4991.5	5060.9	5137.6	5324.4	5568.7	5781.9	5820.2	5477.7	4706.4	4668.1	3712.5
22.5°	5393.8	5326.8	5405.8	5477.7	5666.9	5990.2	6095.6	5846.5	5099.2	4953.1	3987.9
25°	6069.3	6023.8	5966.3	5860.9	5939.9	6081.2	6241.7	6119.6	5434.6	5271.7	4253.8
27.5°	6727.9	6730.3	6605.8	6375.8	6205.8	6234.5	6423.7	6359.1	5717.2	5645.3	4435.8
30°	7664.4	7606.9	7468.0	7156.7	6823.7	6550.7	6519.6	6581.8	6076.5	5937.5	4696.9
32.5°	8366.2	8378.2	8181.8	7733.9	7278.8	7056.1	6783.0	6809.4	6304.0	6201.0	4905.2
35°	8933.8	8919.5	8780.6	8409.3	7870.4	7602.2	7233.3	7082.4	6833.3	6670.4	5223.8
37.5°	9547.0	9429.6	9204.5	8785.3	8440.4	8069.2	7709.9	7369.8	7185.4	6989.0	5496.8
40°	9793.7	9793.7	9491.9	9300.3	8890.7	8610.5	8378.2	7748.3	7614.1	7575.8	5846.5
42.5°	9618.9	9726.6	9602.1	9384.1	9216.5	8862.0	8799.7	8141.1	8143.5	8066.8	6265.7
45°	9602.1	9453.6	9350.6	9405.7	9326.6	9307.5	9465.6	8684.8	8699.1	8689.5	6828.5
47.5°	9120.7	9053.6	9206.9	9297.9	9362.6	9659.6	10114.6	9333.8	9436.8	9365.0	7477.6
50°	8641.6	8629.7	8725.5	9056.0	9336.2	9824.8	10732.6	10335.0	10672.7	10667.9	8653.6
52.5°	7329.1	7456.0	7832.1	8531.5	9223.7	10050.0	11199.6	11614.0	12258.3	12433.1	9628.4
55°	6074.1	6007.0	6562.7	7578.2	8732.7	10138.6	11721.8	12382.8	13331.3	13458.3	10629.6
57.5°	4725.6	4850.1	5288.5	6263.3	7717.1	9700.3	12105.0	13142.1	14543.2	14641.4	11791.2
60°	3525.6	3542.4	4023.8	4809.4	6366.3	8711.1	12229.5	13920.5	15932.4	16212.7	13008.0
62.5°	2217.9	2318.5	2684.9	3458.6	4792.7	7326.7	11671.5	14392.4	17388.7	17462.9	14234.3
65°	1195.2	1259.8	1535.3	2021.5	3348.4	5542.3	10191.3	14109.7	18073.7	18514.4	14780.4
67°	883.8	895.8	1022.7	1291.0	2239.4	4172.3	8497.9	13087.0	18385.0	18706.0	14801.9
67.5°	828.7	845.5	946.1	1159.2	1985.6	3841.8	8054.8	12722.9	18246.1	18591.0	14634.3
70°	709.0	713.7	737.7	797.6	1113.7	2311.3	5484.9	10426.0	16912.0	17242.6	13458.3
72.5°	629.9	634.7	644.3	656.3	754.5	1336.5	3336.4	8023.7	14698.9	15225.9	11611.6
75°	553.3	570.0	574.8	565.3	641.9	869.4	1774.8	5896.8	11990.0	12246.3	9029.7
77.5°	469.4	476.6	486.2	495.8	572.4	649.1	852.7	3980.7	8229.7	8074.0	4883.7
80°	395.2	397.6	404.8	412.0	495.8	495.8	483.8	2150.8	3595.1	3437.0	1650.2
82.5°	282.6	299.4	316.2	335.3	412.0	332.9	316.2	958.1	1137.7	1082.6	558.1
85°	110.2	134.1	208.4	229.9	261.1	179.6	210.8	414.4	474.2	469.4	208.4
87.5°	19.2	21.6	57.5	88.6	95.8	62.3	100.6	148.5	177.2	191.6	76.6
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°	2150.8	2150.8	2150.8	2150.8	2150.8	2150.8	2150.8	2150.8	2150.8	2150.8	2150.8
2.5°	2170.0	2095.7	2007.1	1918.5	1861.0	1770.0	1762.8	1707.7	1700.5	1681.4	1691.0
5°	2186.8	2098.1	1918.5	1777.2	1712.5	1659.8	1671.8	1647.9	1640.7	1628.7	1609.5
7.5°	2318.5	2143.6	1875.4	1753.2	1705.3	1681.4	1681.4	1652.6	1631.1	1645.5	1659.8
10°	2404.7	2165.2	1908.9	1786.8	1748.4	1695.8	1714.9	1679.0	1691.0	1662.2	1662.2
12.5°	2543.6	2287.4	1978.4	1837.1	1774.8	1726.9	1746.1	1705.3	1695.8	1698.1	1691.0
15°	2730.5	2368.8	2009.5	1865.8	1822.7	1762.8	1748.4	1712.5	1676.6	1664.6	1679.0
17.5°	2905.3	2469.4	2031.1	1882.6	1813.1	1746.1	1729.3	1683.8	1671.8	1635.9	1607.1
20°	3113.7	2589.1	2059.8	1896.9	1777.2	1710.1	1667.0	1621.5	1580.8	1559.2	1568.8
22.5°	3252.6	2651.4	2074.2	1868.2	1724.5	1662.2	1571.2	1540.1	1482.6	1458.6	1439.5
25°	3480.1	2728.1	2038.3	1789.2	1631.1	1530.5	1449.1	1405.9	1365.2	1334.1	1324.5
27.5°	3537.6	2785.5	1954.4	1655.0	1482.6	1377.2	1307.7	1255.0	1228.7	1180.8	1171.2
30°	3705.3	2728.1	1829.9	1492.2	1341.3	1233.5	1164.0	1125.7	1063.4	1051.5	1025.1
32.5°	3813.1	2744.8	1671.8	1334.1	1178.4	1082.6	1037.1	998.8	982.0	924.5	910.2
35°	3992.7	2687.3	1511.3	1188.0	1044.3	970.0	931.7	919.7	864.6	838.3	814.3
37.5°	4107.7	2653.8	1350.9	1022.7	898.2	867.0	879.0	828.7	761.7	711.4	694.6
40°	4308.8	2641.8	1168.8	886.2	797.6	790.4	828.7	732.9	610.8	567.6	543.7
42.5°	4598.7	2560.4	1027.5	764.0	718.5	749.7	756.9	610.8	541.3	505.4	488.6
45°	4876.5	2577.2	888.6	632.3	625.1	670.6	653.9	517.3	476.6	450.3	464.7
47.5°	5410.6	2661.0	752.1	526.9	562.9	606.0	507.8	462.3	423.9	404.8	407.2
50°	6236.9	2742.4	632.3	481.4	531.7	548.5	435.9	419.1	416.8	378.4	376.0
52.5°	6732.7	2711.3	610.8	538.9	570.0	548.5	474.2	462.3	443.1	426.3	407.2
55°	7520.7	2802.3	656.3	629.9	646.7	526.9	531.7	526.9	512.6	469.4	481.4
57.5°	8148.2	2862.2	716.1	704.2	694.6	548.5	555.7	558.1	548.5	529.3	546.1
60°	9010.5	2981.9	778.4	780.8	783.2	596.4	608.4	622.7	620.3	613.2	617.9
62.5°	9539.8	2926.9	847.9	886.2	874.2	694.6	692.2	701.8	701.8	713.7	720.9
65°	9460.8	2723.3	883.8	979.6	917.3	766.4	766.4	771.2	773.6	797.6	800.0
67°	8986.5	2359.2	864.6	994.0	917.3	795.2	795.2	800.0	783.2	845.5	826.3
67.5°	8766.2	2251.4	847.9	982.0	910.2	792.8	792.8	795.2	780.8	840.7	821.5
70°	7623.7	1671.8	730.5	869.4	843.1	771.2	771.2	756.9	744.9	823.9	807.2
72.5°	6507.6	1214.3	586.8	740.1	761.7	742.5	747.3	711.4	677.8	732.9	718.5
75°	4984.3	893.4	457.5	570.0	644.3	694.6	725.7	634.7	591.6	606.0	579.6
77.5°	2780.7	582.0	361.7	421.5	491.0	646.7	697.0	572.4	483.8	467.1	467.1
80°	943.7	340.1	265.9	313.8	337.7	572.4	651.5	464.7	380.8	364.1	352.1
82.5°	356.9	208.4	182.0	215.6	215.6	452.7	531.7	356.9	287.4	371.2	378.4
85°	162.9	124.5	119.8	124.5	124.5	277.8	376.0	232.3	258.7	222.7	196.4
87.5°	64.7	59.9	55.1	52.7	43.1	47.9	129.3	62.3	117.4	31.1	28.7
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)