

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: P480831

Luminaire Tested: **IFLD-M-SA4D-730-U-SL4**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480831
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-730-U-SL4
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (64) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

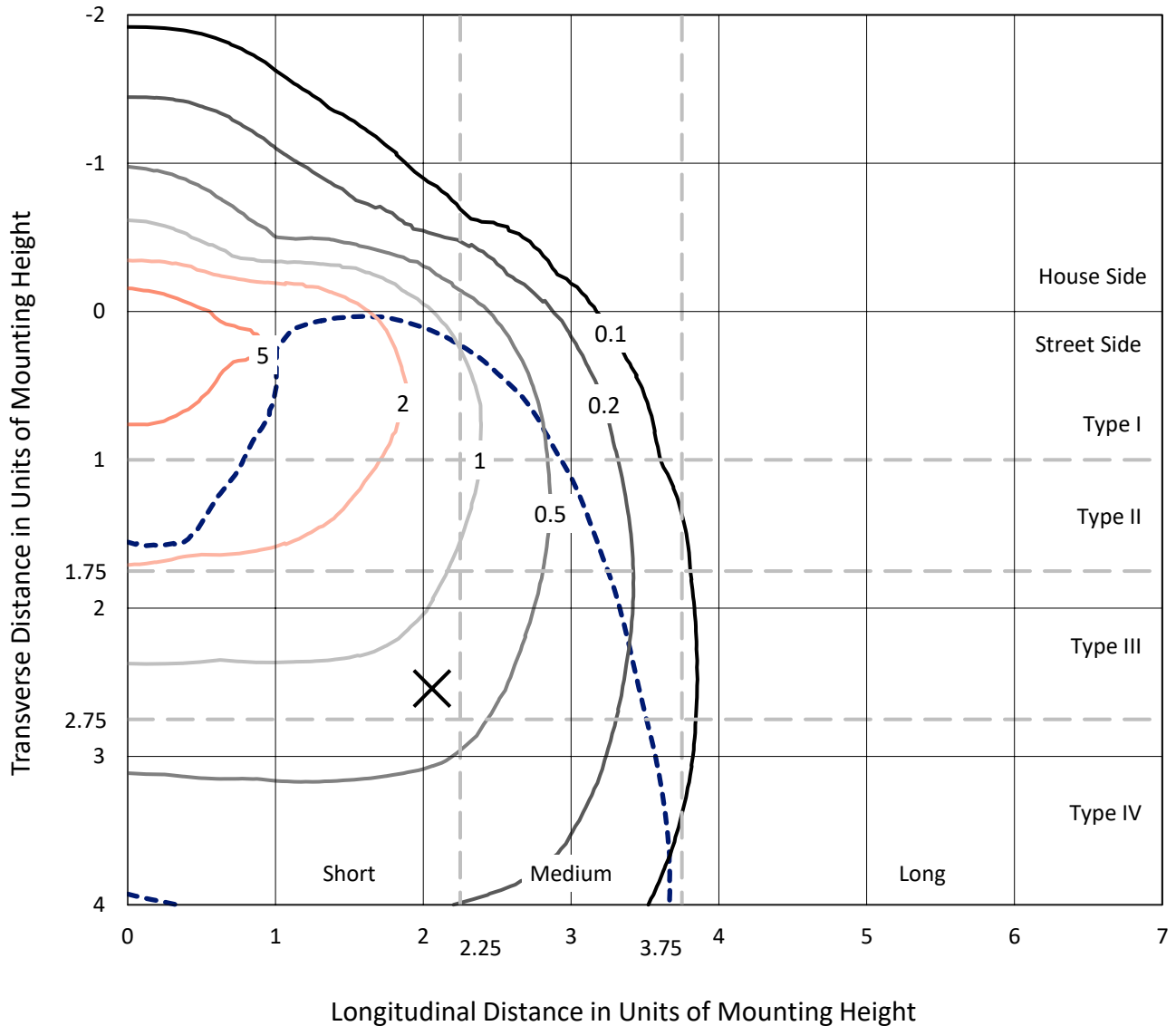
Lumens per Lamp: N/A
Luminaire Lumens: 27555 lumens
Efficiency: N/A
Efficacy: 110.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 249.7
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

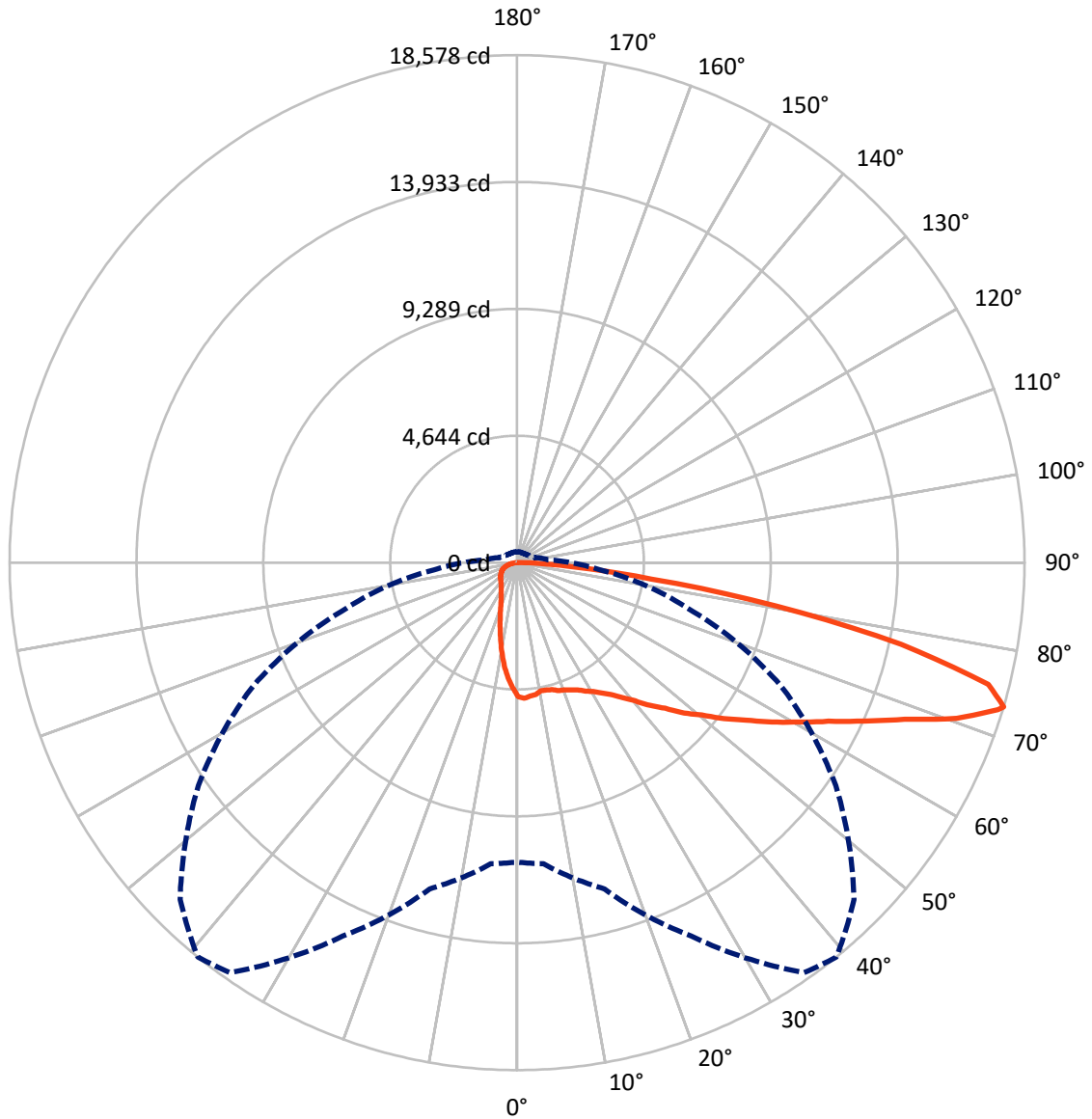
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3873.5	0.0	3873.5
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	23681.6	0.0	23681.6
	% Fixture	85.9	0.0	85.9
Total	Lumens	27555.0	0.0	27555.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	425.8	1.5
10°-20°	1082.4	3.9
20°-30°	1654.1	6.0
30°-40°	2411.7	8.8
40°-50°	3644.3	13.2
50°-60°	5277.1	19.2
60°-70°	6704.8	24.3
70°-80°	5435.3	19.7
80°-90°	919.6	3.3
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°	27555.0	100.0
0°-180°	27555.0	100.0

Coefficient of Utilization



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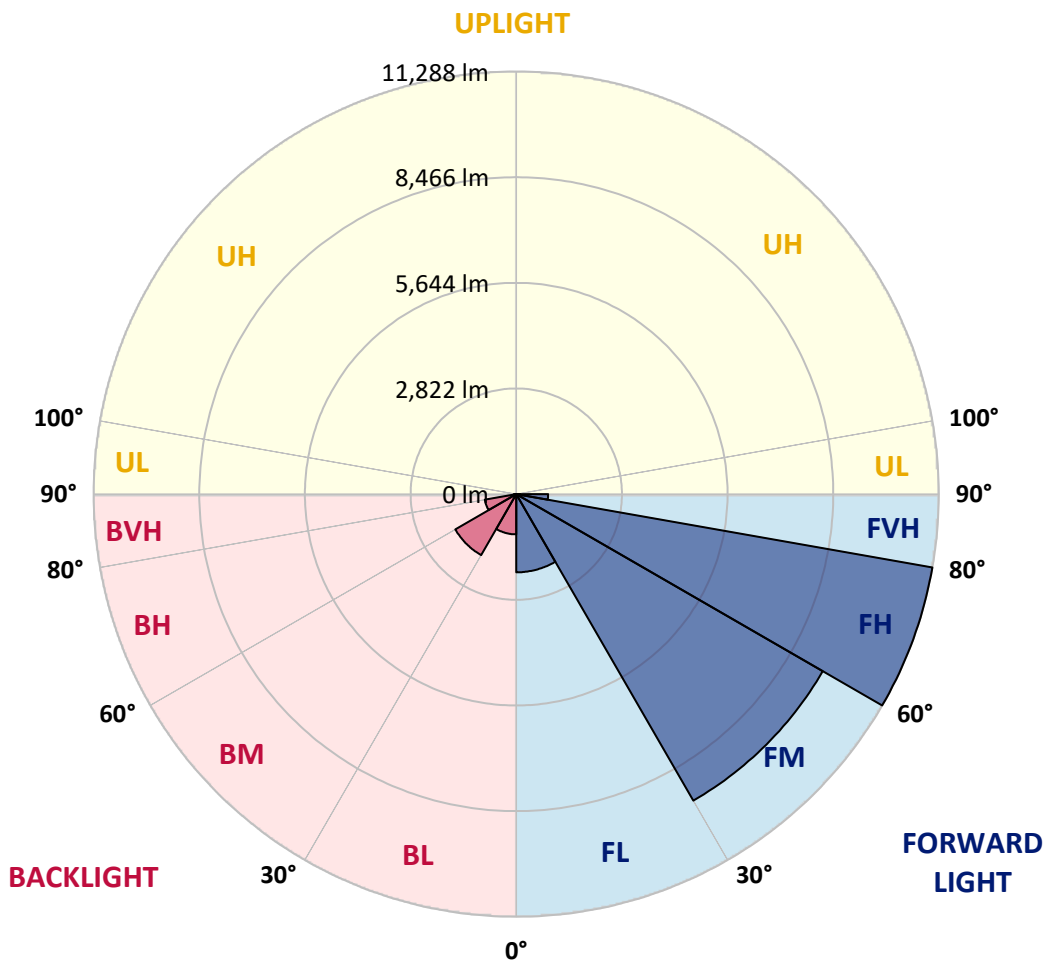
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2088.1	7.6			
FM (30°-60°)	9453.2	34.3			
FH (60°-80°)	11288.2	41.0			G4/12000
FVH (80°-90°)	852.2	3.1			G5
BL (0°-30°)	1074.2	3.9	B3/2500		
BM (30°-60°)	1879.9	6.8	B2/2500		
BH (60°-80°)	851.9	3.1	B2/1000		G2/1000
BVH (80°-90°)	67.5	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	4905.0	4905.0	4905.0	4905.0	4905.0	4905.0	4905.0	4905.0	4905.0	4905.0	4905.0
2.5°	5022.1	4969.7	4979.0	4960.5	4979.0	4972.8	4963.5	4917.3	4963.5	4917.3	4905.0
5°	4954.3	4954.3	4985.1	4938.9	4945.0	4914.2	4945.0	4911.1	4880.3	4803.2	4781.6
7.5°	4932.7	4929.6	4932.7	4868.0	4898.8	4880.3	4849.5	4812.5	4750.8	4701.5	4630.6
10°	4784.7	4815.6	4781.6	4800.1	4824.8	4769.3	4766.2	4757.0	4729.2	4664.5	4621.3
12.5°	4704.6	4757.0	4775.5	4760.1	4781.6	4787.8	4769.3	4757.0	4723.1	4679.9	4556.6
15°	4738.5	4676.8	4729.2	4831.0	4809.4	4824.8	4827.9	4815.6	4800.1	4720.0	4639.8
17.5°	4747.7	4710.7	4821.7	4843.3	4871.1	4926.5	4889.6	4886.5	4827.9	4772.4	4655.2
20°	4769.3	4753.9	4843.3	4957.4	4960.5	4969.7	4988.2	4942.0	4911.1	4815.6	4636.7
22.5°	4849.5	4901.9	4985.1	5034.4	5062.2	5068.4	5068.4	4975.9	4942.0	4864.9	4723.1
25°	5089.9	5034.4	5151.6	5210.2	5170.1	5160.8	5139.3	5056.0	5019.0	4951.2	4763.2
27.5°	5265.7	5262.6	5330.4	5410.6	5302.7	5324.2	5247.2	5222.5	5139.3	5102.3	4834.1
30°	5506.1	5574.0	5570.9	5595.5	5453.7	5478.4	5379.7	5333.5	5287.3	5308.8	5043.7
32.5°	5814.4	5789.8	5829.8	5811.4	5669.5	5691.1	5574.0	5503.1	5518.5	5583.2	5330.4
35°	6011.7	5987.1	6002.5	6002.5	5959.3	5934.7	5885.3	5792.9	5866.8	5987.1	5651.0
37.5°	6224.5	6255.3	6344.7	6326.2	6270.7	6270.7	6264.5	6199.8	6295.4	6591.3	6162.8
40°	6412.5	6495.8	6551.3	6588.3	6653.0	6653.0	6705.4	6668.4	6841.1	7315.8	6788.6
42.5°	6609.8	6612.9	6915.0	6942.8	7087.7	7149.3	7189.4	7220.3	7544.0	8074.2	7457.6
45°	6862.6	6878.1	7143.2	7355.9	7581.0	7602.5	7753.6	7855.3	8253.0	8903.5	8185.2
47.5°	7195.6	7177.1	7460.7	7799.9	8080.4	8228.4	8410.3	8521.3	9011.4	9803.8	8980.6
50°	7633.4	7577.9	7741.3	8274.6	8604.5	8767.9	9091.6	9276.6	9850.0	10663.9	9526.3
52.5°	8166.7	8074.2	8203.7	8786.4	9156.3	9486.2	9794.5	10001.1	10599.2	11329.8	9930.2
55°	8730.9	8539.8	8576.8	9329.0	9862.3	10173.7	10596.1	10811.9	11422.3	11927.9	10334.0
57.5°	9288.9	9168.7	9094.7	9850.0	10704.0	11003.0	11391.5	11672.0	12190.0	12458.2	10676.2
60°	9757.5	9726.7	9606.5	10657.7	11595.0	11850.8	12257.8	12430.4	12822.0	12948.4	10682.4
62.5°	10142.9	10038.1	10229.2	11308.2	12501.3	12791.1	13238.2	13253.6	13531.0	13253.6	10367.9
65°	10445.0	10451.2	10756.4	12094.4	13549.5	13978.1	14338.8	14298.7	14119.9	13071.7	9625.0
67.5°	10719.4	10836.6	11283.6	12957.6	14896.8	15300.7	15701.4	15171.2	14280.2	12220.8	8172.9
70°	10935.2	11052.4	11995.7	14008.9	16484.5	17076.4	17165.8	15516.5	13543.4	10352.5	6165.9
72.5°	10910.5	11123.3	12399.6	14847.5	17893.4	18405.2	17683.8	14545.3	11283.6	7217.2	3597.8
73°	10963.0	11067.8	12365.7	15081.8	18321.9	18577.8	17443.3	14240.1	10642.3	6474.2	3042.9
75°	9951.7	10306.3	11752.2	14699.5	17862.6	17816.3	16062.1	11866.3	7565.5	3400.5	1473.6
77.5°	7362.1	7587.1	9261.2	12088.2	14662.5	14366.5	12116.0	7584.0	3591.6	1260.9	795.4
80°	3597.8	3773.5	4908.0	6979.8	9588.0	9612.6	7519.3	3946.2	1538.4	712.2	542.6
82.5°	1797.4	1902.2	2358.5	3067.5	4716.9	4942.0	3813.6	2244.4	952.6	403.9	308.3
85°	1174.6	1248.6	1452.1	1501.4	2000.8	2111.8	1775.8	1751.1	619.7	218.9	249.7
87.5°	780.0	792.3	891.0	758.4	801.6	770.7	857.1	1103.7	181.9	92.5	67.8
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°	4905.0	4905.0	4905.0	4905.0	4905.0	4905.0	4905.0	4905.0	4905.0	4905.0	4905.0
2.5°	4889.6	4846.4	4800.1	4735.4	4689.2	4618.3	4553.5	4525.8	4519.6	4522.7	4491.9
5°	4763.2	4701.5	4609.0	4476.4	4399.4	4282.2	4183.6	4131.1	4075.7	4084.9	4060.2
7.5°	4587.4	4519.6	4377.8	4223.6	4032.5	3866.0	3773.5	3644.0	3570.1	3514.6	3545.4
10°	4531.9	4414.8	4202.1	3989.3	3693.4	3474.5	3261.8	3113.8	3012.0	2913.4	2956.5
12.5°	4504.2	4387.0	4091.1	3776.6	3394.3	3061.4	2762.3	2580.4	2435.5	2349.2	2383.1
15°	4479.5	4334.6	3986.2	3542.3	3113.8	2676.0	2340.0	2099.5	1960.8	1877.5	1886.8
17.5°	4513.4	4306.9	3832.1	3314.2	2805.5	2336.9	1963.8	1714.1	1572.3	1519.9	1507.6
20°	4479.5	4276.0	3681.0	3086.0	2497.2	2013.2	1655.5	1449.0	1350.3	1307.2	1297.9
22.5°	4491.9	4202.1	3523.8	2833.2	2210.5	1741.9	1449.0	1291.8	1214.7	1193.1	1199.3
25°	4550.4	4158.9	3366.6	2555.8	1926.8	1541.5	1316.4	1196.2	1140.7	1119.1	1125.3
27.5°	4593.6	4195.9	3224.8	2293.7	1686.4	1362.7	1205.4	1125.3	1088.3	1072.9	1069.8
30°	4701.5	4217.5	3086.0	2059.4	1489.1	1245.5	1128.4	1063.6	1039.0	1029.7	1026.6
32.5°	4861.8	4257.5	2925.7	1843.6	1344.2	1134.5	1066.7	1011.2	1005.0	995.8	998.9
35°	5123.9	4396.3	2746.9	1658.6	1205.4	1060.5	1002.0	965.0	965.0	965.0	974.2
37.5°	5500.0	4590.5	2586.6	1482.9	1116.0	995.8	946.5	934.1	928.0	937.2	943.4
40°	5984.0	4824.8	2457.1	1344.2	1039.0	952.6	909.5	903.3	900.2	897.1	903.3
42.5°	6514.3	5123.9	2346.1	1236.3	983.5	906.4	875.6	869.4	857.1	863.2	872.5
45°	7041.4	5493.8	2247.5	1149.9	946.5	881.7	838.6	835.5	829.3	826.2	841.6
47.5°	7627.2	5857.6	2216.6	1097.5	918.7	844.7	813.9	810.8	792.3	789.2	801.6
50°	8083.5	6125.8	2250.5	1072.9	878.6	817.0	795.4	780.0	764.6	749.2	749.2
52.5°	8397.9	6310.8	2275.2	1054.4	857.1	780.0	752.2	746.1	730.7	715.2	709.1
55°	8681.6	6421.8	2281.4	1057.5	835.5	736.8	718.3	715.2	706.0	681.3	675.2
57.5°	8777.1	6375.5	2158.1	1029.7	823.1	709.1	684.4	690.6	678.2	656.7	653.6
60°	8767.9	6054.9	1877.5	992.7	795.4	678.2	647.4	665.9	665.9	641.3	638.2
62.5°	8234.5	5315.0	1535.3	921.8	764.6	647.4	613.5	641.3	650.5	635.1	632.0
65°	7127.8	4328.5	1282.5	850.9	718.3	613.5	579.6	610.4	625.8	619.7	616.6
67.5°	5897.7	3311.1	1066.7	758.4	659.8	567.3	539.5	561.1	570.3	573.4	576.5
70°	4168.1	2204.3	891.0	656.7	579.6	517.9	487.1	490.2	487.1	496.4	496.4
72.5°	2266.0	1270.2	724.5	558.0	499.4	450.1	428.5	413.1	413.1	410.0	410.0
73°	1939.2	1140.7	690.6	542.6	477.9	437.8	413.1	400.8	400.8	397.7	394.6
75°	1088.3	835.5	591.9	465.5	413.1	382.3	363.8	345.3	342.2	342.2	342.2
77.5°	715.2	650.5	471.7	373.0	333.0	305.2	299.0	280.5	280.5	280.5	277.5
80°	536.4	511.8	363.8	283.6	255.9	234.3	228.1	215.8	212.7	200.4	203.5
82.5°	357.6	403.9	265.1	200.4	172.6	160.3	160.3	157.2	148.0	132.6	132.6
85°	283.6	329.9	191.1	123.3	101.7	86.3	89.4	86.3	83.2	67.8	64.7
87.5°	52.4	132.6	55.5	33.9	24.7	15.4	15.4	9.2	6.2	0.0	0.0
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)