

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: P481065

Luminaire Tested: **IFLD-M-SA4D-830-U-SL4**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481065
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-830-U-SL4
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (64) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

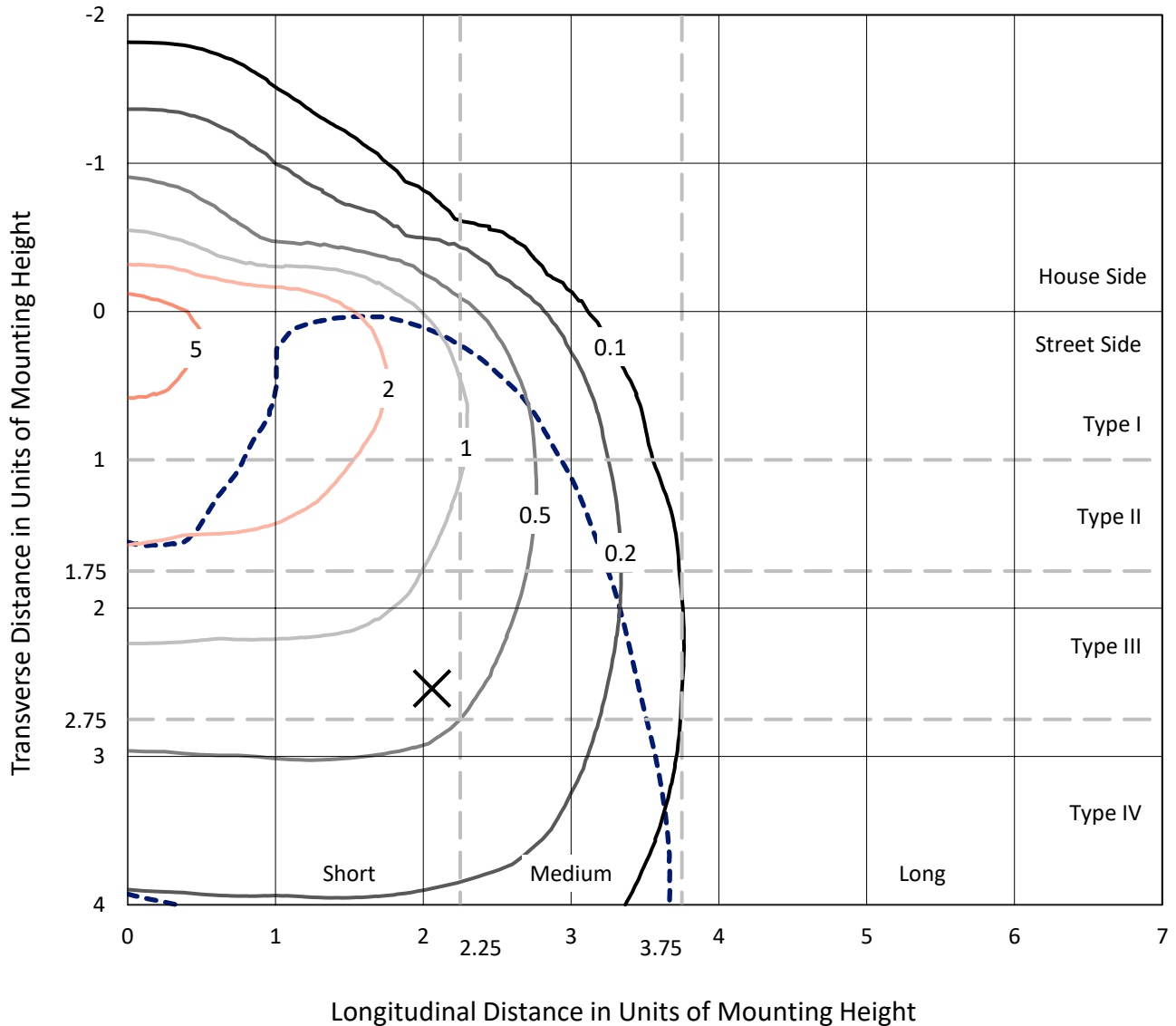
Lumens per Lamp: N/A
Luminaire Lumens: 24044.8 lumens
Efficiency: N/A
Efficacy: 96.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

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

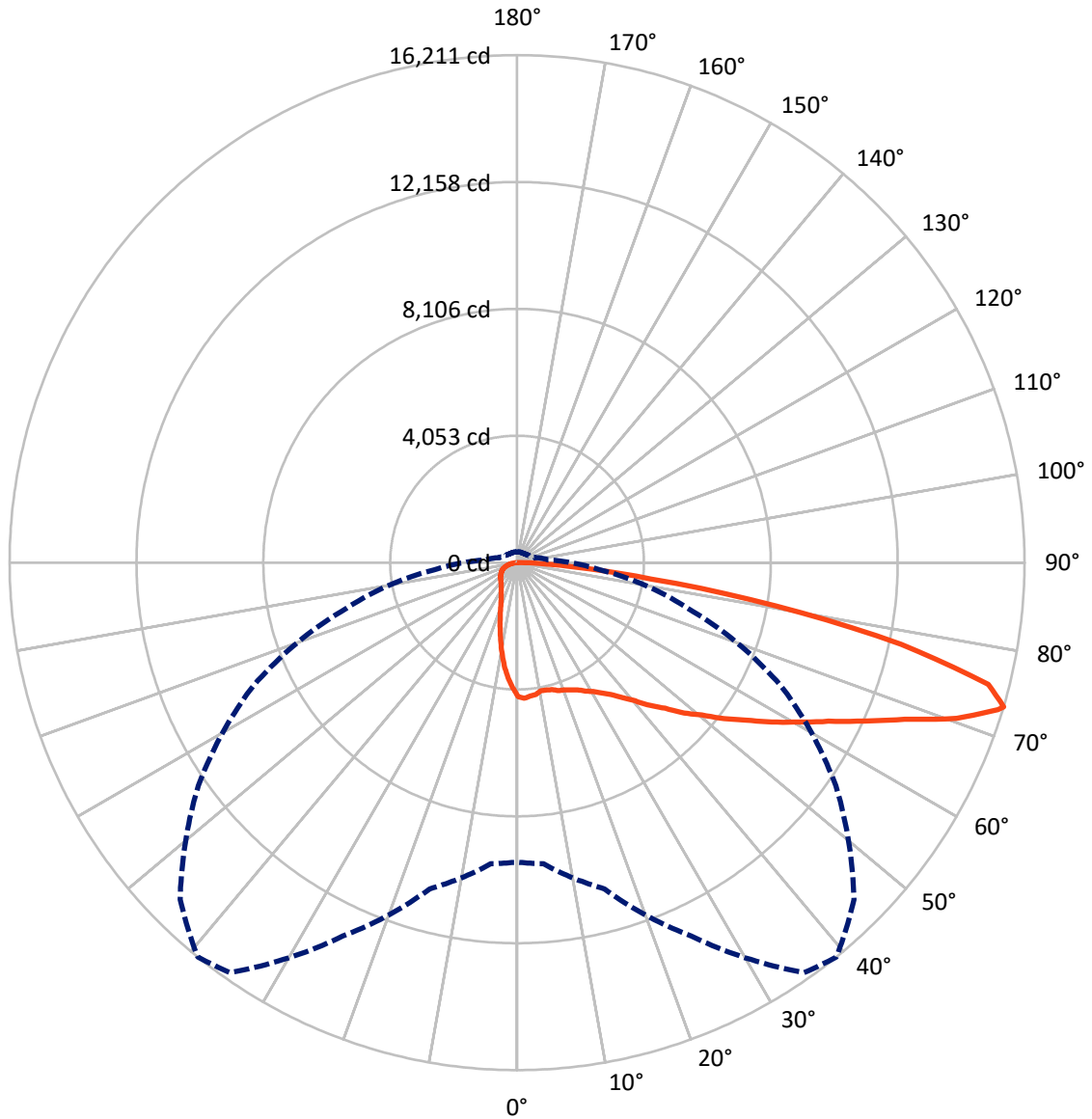
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 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	3380.0	0.0	3380.0
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	20664.8	0.0	20664.8
	% Fixture	85.9	0.0	85.9
Total	Lumens	24044.8	0.0	24044.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	371.5	1.5
10°-20°	944.5	3.9
20°-30°	1443.3	6.0
30°-40°	2104.4	8.8
40°-50°	3180.0	13.2
50°-60°	4604.9	19.2
60°-70°	5850.7	24.3
70°-80°	4742.9	19.7
80°-90°	802.5	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°	24044.8	100.0
0°-180°	24044.8	100.0

Coefficient of Utilization



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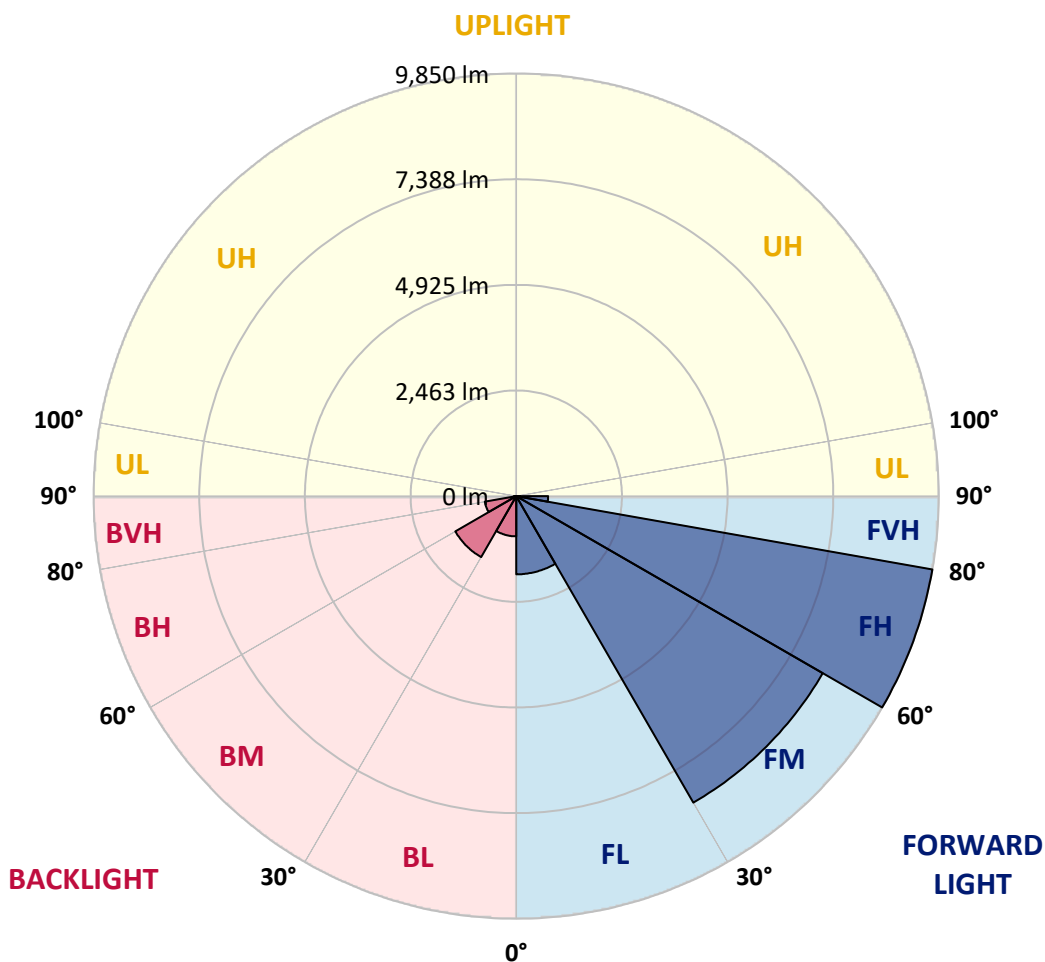
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1822.1	7.6			
FM (30°-60°)	8248.9	34.3			
FH (60°-80°)	9850.2	41.0			G4/12000
FVH (80°-90°)	743.6	3.1			G4/750
BL (0°-30°)	937.4	3.9	B2/1000		
BM (30°-60°)	1640.4	6.8	B2/2500		
BH (60°-80°)	743.4	3.1	B2/1000		G2/1000
BVH (80°-90°)	58.9	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	4280.1	4280.1	4280.1	4280.1	4280.1	4280.1	4280.1	4280.1	4280.1	4280.1	4280.1
2.5°	4382.4	4336.6	4344.7	4328.6	4344.7	4339.3	4331.2	4290.9	4331.2	4290.9	4280.1
5°	4323.2	4323.2	4350.1	4309.7	4315.1	4288.2	4315.1	4285.5	4258.6	4191.4	4172.5
7.5°	4304.3	4301.7	4304.3	4247.8	4274.7	4258.6	4231.7	4199.4	4145.6	4102.6	4040.7
10°	4175.2	4202.1	4172.5	4188.7	4210.2	4161.8	4159.1	4151.0	4126.8	4070.3	4032.6
12.5°	4105.3	4151.0	4167.1	4153.7	4172.5	4177.9	4161.8	4151.0	4121.4	4083.7	3976.1
15°	4134.9	4081.1	4126.8	4215.6	4196.7	4210.2	4212.9	4202.1	4188.7	4118.7	4048.8
17.5°	4142.9	4110.6	4207.5	4226.3	4250.5	4299.0	4266.7	4264.0	4212.9	4164.4	4062.2
20°	4161.8	4148.3	4226.3	4325.9	4328.6	4336.6	4352.8	4312.4	4285.5	4202.1	4046.1
22.5°	4231.7	4277.4	4350.1	4393.1	4417.3	4422.7	4422.7	4342.0	4312.4	4245.2	4121.4
25°	4441.5	4393.1	4495.3	4546.5	4511.5	4503.4	4484.6	4411.9	4379.7	4320.5	4156.4
27.5°	4594.9	4592.2	4651.4	4721.3	4627.2	4646.0	4578.7	4557.2	4484.6	4452.3	4218.3
30°	4804.7	4863.9	4861.2	4882.7	4759.0	4780.5	4694.4	4654.1	4613.7	4632.5	4401.2
32.5°	5073.7	5052.2	5087.2	5071.1	4947.3	4966.1	4863.9	4802.0	4815.5	4872.0	4651.4
35°	5245.9	5224.4	5237.8	5237.8	5200.2	5178.7	5135.6	5054.9	5119.5	5224.4	4931.2
37.5°	5431.5	5458.4	5536.5	5520.3	5471.9	5471.9	5466.5	5410.0	5493.4	5751.7	5377.7
40°	5595.6	5668.3	5716.7	5749.0	5805.5	5805.5	5851.2	5818.9	5969.6	6383.9	5923.8
42.5°	5767.8	5770.5	6034.1	6058.4	6184.8	6238.6	6273.6	6300.5	6583.0	7045.7	6507.6
45°	5988.4	6001.9	6233.2	6418.8	6615.2	6634.1	6765.9	6854.7	7201.7	7769.3	7142.5
47.5°	6279.0	6262.8	6510.3	6806.2	7051.0	7180.2	7338.9	7435.7	7863.5	8554.9	7836.6
50°	6661.0	6612.5	6755.1	7220.5	7508.4	7651.0	7933.4	8094.9	8595.2	9305.4	8312.8
52.5°	7126.4	7045.7	7158.7	7667.1	7989.9	8277.8	8546.8	8727.1	9249.0	9886.5	8665.2
55°	7618.7	7451.9	7484.2	8140.6	8606.0	8877.7	9246.3	9434.6	9967.2	10408.4	9017.6
57.5°	8105.6	8000.7	7936.1	8595.2	9340.4	9601.4	9940.3	10185.1	10637.1	10871.2	9316.2
60°	8514.5	8487.6	8382.7	9300.1	10117.9	10341.2	10696.3	10846.9	11188.6	11298.9	9321.6
62.5°	8850.8	8759.3	8926.1	9867.7	10908.8	11161.7	11551.8	11565.2	11807.3	11565.2	9047.2
65°	9114.4	9119.8	9386.2	10553.7	11823.5	12197.4	12512.2	12477.2	12321.2	11406.5	8398.8
67.5°	9353.9	9456.1	9846.2	11307.0	12999.1	13351.5	13701.3	13238.5	12461.1	10664.0	7131.8
70°	9542.2	9644.4	10467.6	12224.3	14384.6	14901.1	14979.1	13539.8	11818.1	9033.7	5380.4
72.5°	9520.7	9706.3	10820.0	12956.1	15614.0	16060.6	15431.1	12692.4	9846.2	6297.8	3139.5
73°	9566.4	9657.9	10790.4	13160.5	15987.9	16211.2	15221.2	12426.1	9286.6	5649.4	2655.2
75°	8684.0	8993.4	10255.1	12826.9	15587.1	15546.7	14016.0	10354.6	6601.8	2967.3	1285.9
77.5°	6424.2	6620.6	8081.4	10548.3	12794.7	12536.4	10572.5	6617.9	3134.1	1100.3	694.1
80°	3139.5	3292.8	4282.8	6090.6	8366.6	8388.1	6561.4	3443.5	1342.4	621.4	473.5
82.5°	1568.4	1659.9	2058.0	2676.8	4116.0	4312.4	3327.8	1958.5	831.3	352.4	269.0
85°	1025.0	1089.5	1267.1	1310.1	1745.9	1842.8	1549.6	1528.0	540.7	191.0	217.9
87.5°	680.6	691.4	777.5	661.8	699.5	672.6	747.9	963.1	158.7	80.7	59.2
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°	4280.1	4280.1	4280.1	4280.1	4280.1	4280.1	4280.1	4280.1	4280.1	4280.1	4280.1
2.5°	4266.7	4229.0	4188.7	4132.2	4091.8	4029.9	3973.4	3949.2	3943.9	3946.5	3919.6
5°	4156.4	4102.6	4021.9	3906.2	3838.9	3736.7	3650.6	3604.9	3556.5	3564.5	3543.0
7.5°	4003.0	3943.9	3820.1	3685.6	3518.8	3373.5	3292.8	3179.8	3115.3	3066.8	3093.7
10°	3954.6	3852.4	3666.8	3481.1	3222.9	3031.9	2846.2	2717.1	2628.3	2542.3	2579.9
12.5°	3930.4	3828.2	3569.9	3295.5	2961.9	2671.4	2410.4	2251.7	2125.3	2049.9	2079.5
15°	3908.9	3782.4	3478.4	3091.1	2717.1	2335.1	2041.9	1832.0	1711.0	1638.3	1646.4
17.5°	3938.5	3758.2	3343.9	2892.0	2448.1	2039.2	1713.7	1495.8	1372.0	1326.3	1315.5
20°	3908.9	3731.3	3212.1	2692.9	2179.1	1756.7	1444.6	1264.4	1178.3	1140.7	1132.6
22.5°	3919.6	3666.8	3074.9	2472.3	1928.9	1520.0	1264.4	1127.2	1059.9	1041.1	1046.5
25°	3970.8	3629.1	2937.7	2230.2	1681.4	1345.1	1148.7	1043.8	995.4	976.5	981.9
27.5°	4008.4	3661.4	2814.0	2001.5	1471.5	1189.1	1051.9	981.9	949.6	936.2	933.5
30°	4102.6	3680.2	2692.9	1797.1	1299.4	1086.8	984.6	928.1	906.6	898.5	895.8
32.5°	4242.5	3715.2	2553.0	1608.7	1172.9	990.0	930.8	882.4	877.0	868.9	871.6
35°	4471.1	3836.2	2397.0	1447.3	1051.9	925.4	874.3	842.0	842.0	842.0	850.1
37.5°	4799.3	4005.7	2257.1	1294.0	973.9	868.9	825.9	815.1	809.8	817.8	823.2
40°	5221.7	4210.2	2144.1	1172.9	906.6	831.3	793.6	788.2	785.5	782.9	788.2
42.5°	5684.4	4471.1	2047.3	1078.8	858.2	790.9	764.0	758.6	747.9	753.3	761.3
45°	6144.4	4794.0	1961.2	1003.4	825.9	769.4	731.7	729.0	723.7	721.0	734.4
47.5°	6655.6	5111.4	1934.3	957.7	801.7	737.1	710.2	707.5	691.4	688.7	699.5
50°	7053.7	5345.5	1963.9	936.2	766.7	712.9	694.1	680.6	667.2	653.7	653.7
52.5°	7328.1	5506.9	1985.4	920.1	747.9	680.6	656.4	651.0	637.6	624.1	618.7
55°	7575.6	5603.7	1990.8	922.7	729.0	643.0	626.8	624.1	616.1	594.5	589.2
57.5°	7659.0	5563.4	1883.1	898.5	718.3	618.7	597.2	602.6	591.8	573.0	570.3
60°	7651.0	5283.6	1638.3	866.2	694.1	591.8	564.9	581.1	581.1	559.6	556.9
62.5°	7185.6	4637.9	1339.7	804.4	667.2	564.9	535.4	559.6	567.6	554.2	551.5
65°	6219.8	3777.1	1119.1	742.5	626.8	535.4	505.8	532.7	546.1	540.7	538.0
67.5°	5146.4	2889.3	930.8	661.8	575.7	495.0	470.8	489.6	497.7	500.4	503.1
70°	3637.2	1923.5	777.5	573.0	505.8	452.0	425.1	427.7	425.1	433.1	433.1
72.5°	1977.3	1108.4	632.2	486.9	435.8	392.8	373.9	360.5	360.5	357.8	357.8
73°	1692.1	995.4	602.6	473.5	417.0	382.0	360.5	349.7	349.7	347.0	344.3
75°	949.6	729.0	516.5	406.2	360.5	333.6	317.4	301.3	298.6	298.6	298.6
77.5°	624.1	567.6	411.6	325.5	290.5	266.3	261.0	244.8	244.8	244.8	242.1
80°	468.1	446.6	317.4	247.5	223.3	204.5	199.1	188.3	185.6	174.9	177.6
82.5°	312.1	352.4	231.4	174.9	150.7	139.9	139.9	137.2	129.1	115.7	115.7
85°	247.5	287.9	166.8	107.6	88.8	75.3	78.0	75.3	72.6	59.2	56.5
87.5°	45.7	115.7	48.4	29.6	21.5	13.5	13.5	8.1	5.4	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)