

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: P481020

Luminaire Tested: **IFLD-S-SA6C-827-U-SL4**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481020
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6C-827-U-SL4
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (96) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

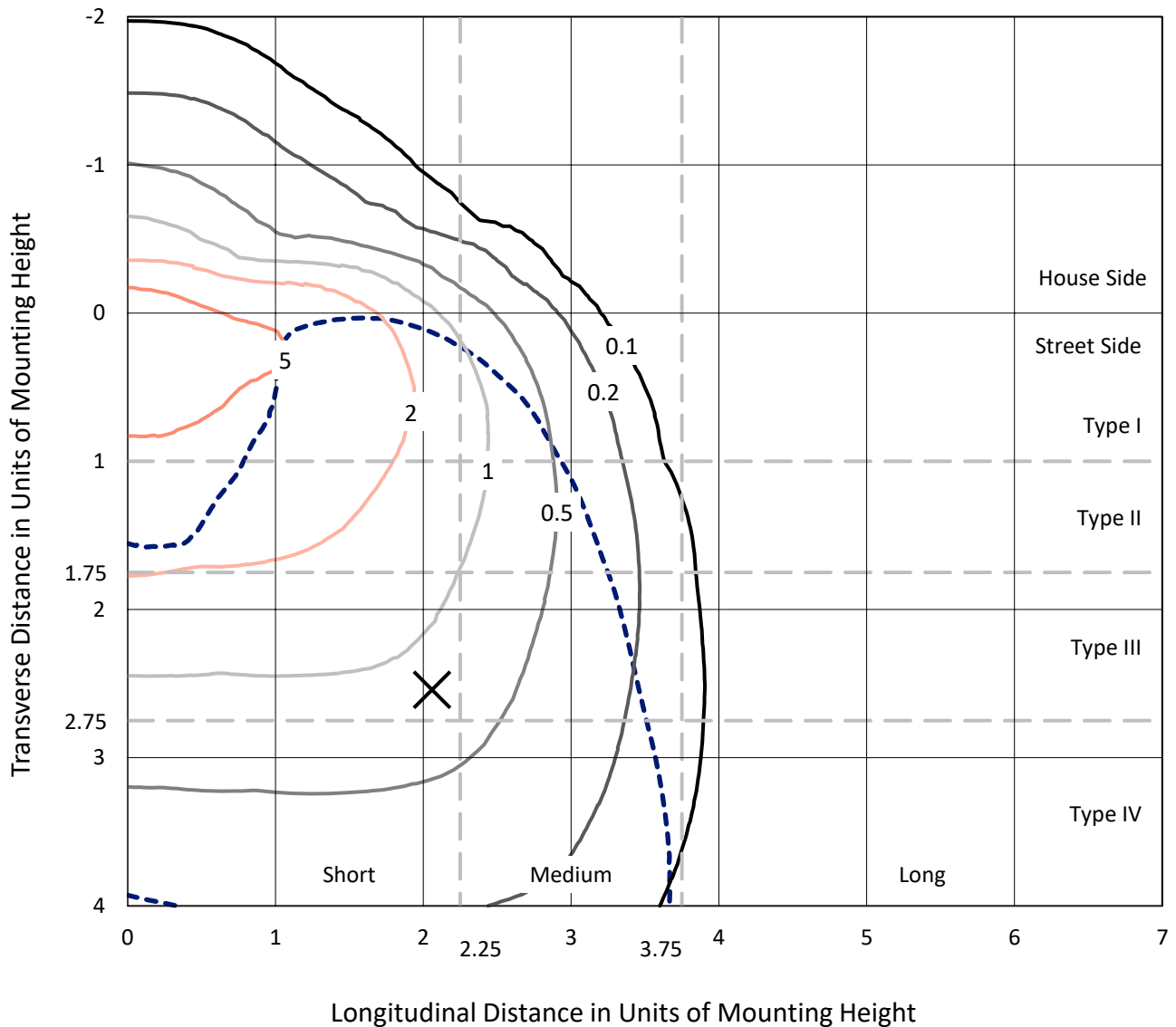
Lumens per Lamp: N/A
Luminaire Lumens: 29545.3 lumens
Efficiency: N/A
Efficacy: 91.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 321.5
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

REPORT NUMBER: P481020
 CATALOG NUMBER: IFLD-S-SA6C-827-U-SL4

Iso-Footcandle Lines of Horizontal Illumination

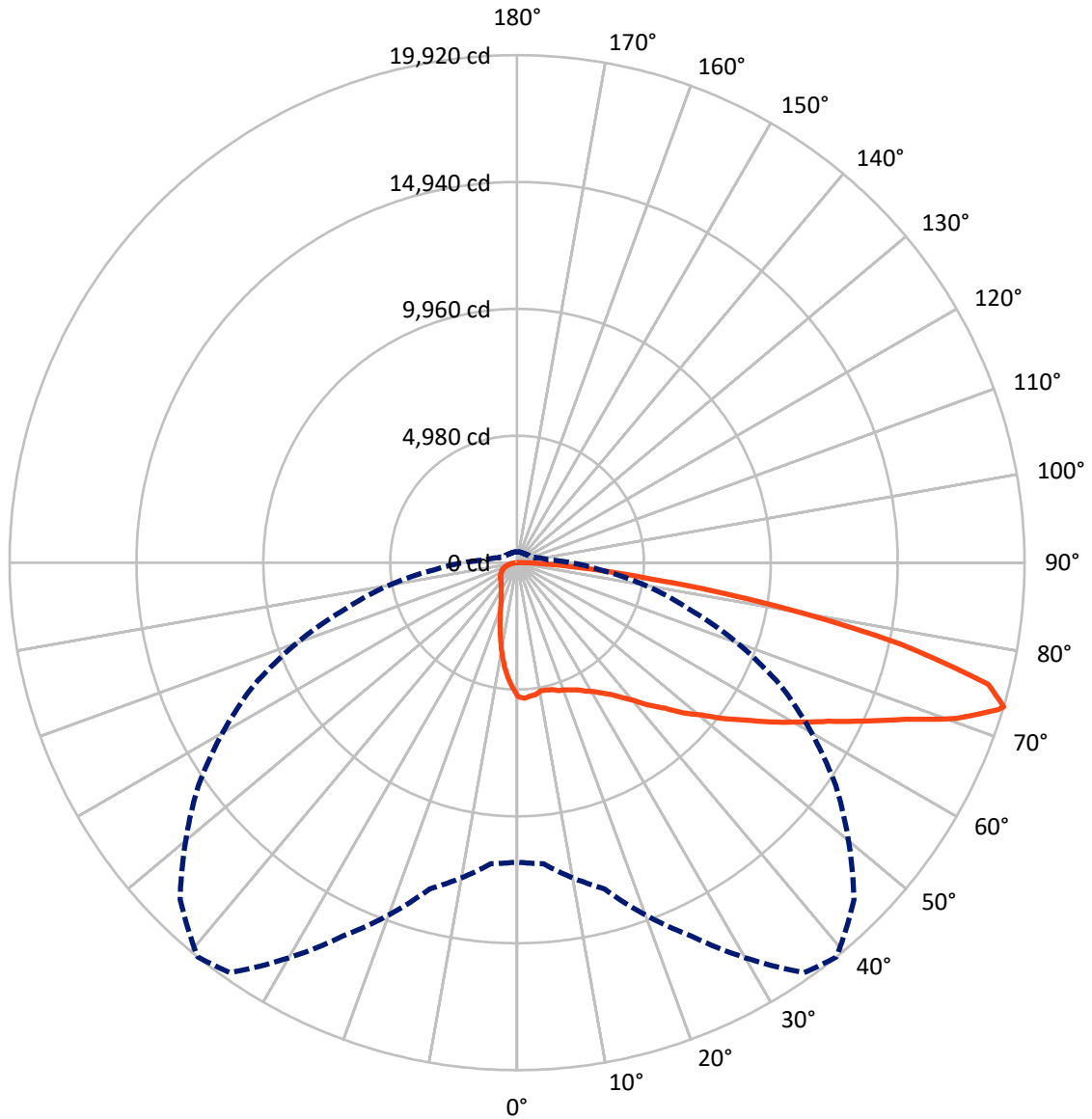
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 fc
 Type IV - Short - N/A

REPORT NUMBER: P481020
CATALOG NUMBER: IFLD-S-SA6C-827-U-SL4

Luminous Intensity Polar Plot



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

REPORT NUMBER: P481020
 CATALOG NUMBER: IFLD-S-SA6C-827-U-SL4

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4153.2	0.0	4153.2
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	25392.1	0.0	25392.1
	% Fixture	85.9	0.0	85.9
Total	Lumens	29545.3	0.0	29545.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	456.5	1.5
10°-20°	1160.6	3.9
20°-30°	1773.5	6.0
30°-40°	2585.8	8.8
40°-50°	3907.5	13.2
50°-60°	5658.3	19.2
60°-70°	7189.1	24.3
70°-80°	5827.9	19.7
80°-90°	986.0	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°	29545.3	100.0
0°-180°	29545.3	100.0

Coefficient of Utilization

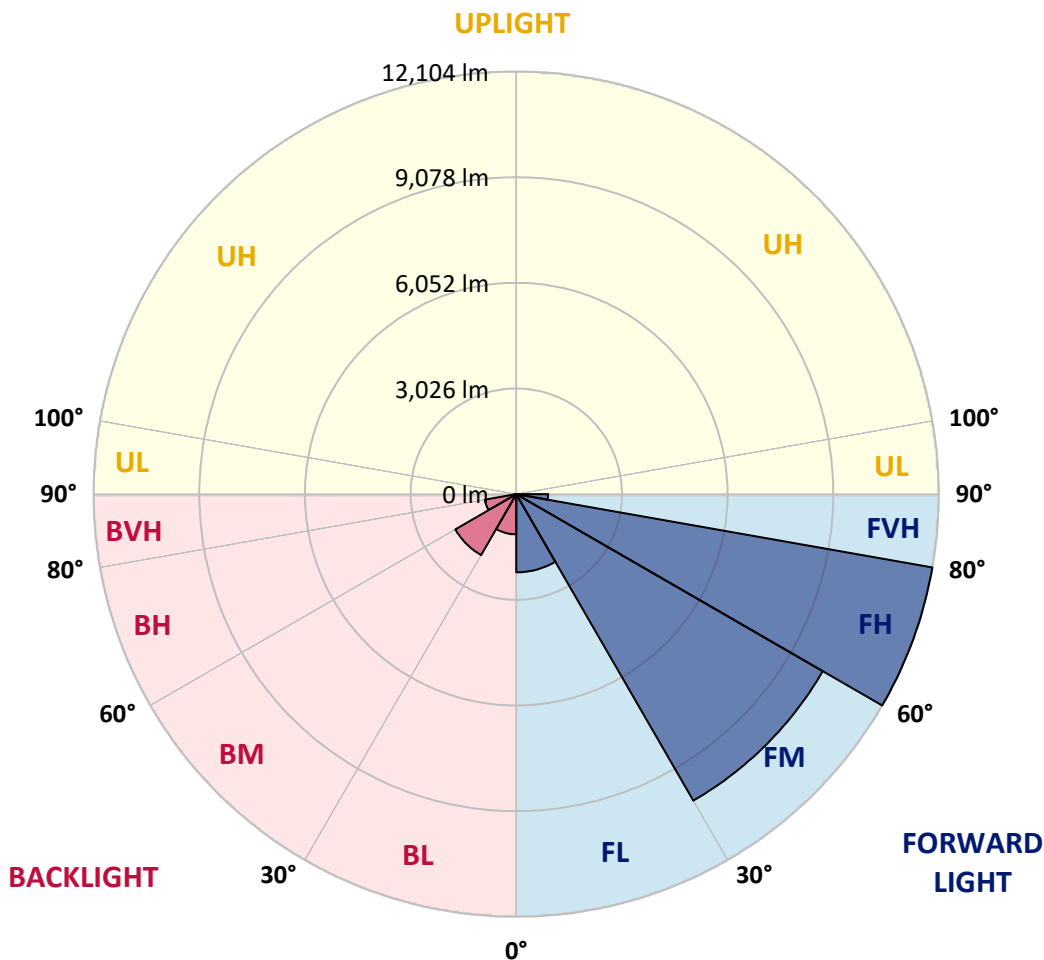


REPORT NUMBER: P481020
 CATALOG NUMBER: IFLD-S-SA6C-827-U-SL4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2238.9	7.6			
FM (30°-60°)	10135.9	34.3			
FH (60°-80°)	12103.5	41.0			G5
FVH (80°-90°)	913.7	3.1			G5
BL (0°-30°)	1151.8	3.9	B3/2500		
BM (30°-60°)	2015.7	6.8	B2/2500		
BH (60°-80°)	913.4	3.1	B2/1000		G2/1000
BVH (80°-90°)	72.3	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





REPORT NUMBER: P481020
 CATALOG NUMBER: IFLD-S-SA6C-827-U-SL4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	5259.2	5259.2	5259.2	5259.2	5259.2	5259.2	5259.2	5259.2	5259.2	5259.2	5259.2
2.5°	5384.9	5328.7	5338.6	5318.7	5338.6	5332.0	5322.1	5272.5	5322.1	5272.5	5259.2
5°	5312.1	5312.1	5345.2	5295.6	5302.2	5269.2	5302.2	5265.9	5232.8	5150.2	5127.0
7.5°	5289.0	5285.7	5289.0	5219.6	5252.6	5232.8	5199.7	5160.1	5094.0	5041.1	4965.0
10°	5130.3	5163.4	5127.0	5146.9	5173.3	5113.8	5110.5	5100.6	5070.8	5001.4	4955.1
12.5°	5044.4	5100.6	5120.4	5103.9	5127.0	5133.6	5113.8	5100.6	5064.2	5017.9	4885.7
15°	5080.7	5014.6	5070.8	5179.9	5156.8	5173.3	5176.6	5163.4	5146.9	5060.9	4975.0
17.5°	5090.7	5051.0	5170.0	5193.1	5222.9	5282.4	5242.7	5239.4	5176.6	5117.1	4991.5
20°	5113.8	5097.3	5193.1	5315.4	5318.7	5328.7	5348.5	5298.9	5265.9	5163.4	4971.7
22.5°	5199.7	5255.9	5345.2	5398.1	5427.8	5434.4	5434.4	5335.3	5298.9	5216.3	5064.2
25°	5457.6	5398.1	5523.7	5586.5	5543.5	5533.6	5510.5	5421.2	5381.6	5308.8	5107.2
27.5°	5646.0	5642.7	5715.4	5801.4	5685.7	5708.8	5626.2	5599.7	5510.5	5470.8	5183.2
30°	5903.8	5976.6	5973.3	5999.7	5847.6	5874.1	5768.3	5718.7	5669.1	5692.3	5408.0
32.5°	6234.4	6208.0	6250.9	6231.1	6079.0	6102.2	5976.6	5900.5	5917.1	5986.5	5715.4
35°	6446.0	6419.5	6436.0	6436.0	6389.8	6363.3	6310.4	6211.3	6290.6	6419.5	6059.2
37.5°	6674.1	6707.1	6803.0	6783.1	6723.6	6723.6	6717.0	6647.6	6750.1	7067.4	6607.9
40°	6875.7	6964.9	7024.4	7064.1	7133.5	7133.5	7189.7	7150.1	7335.2	7844.2	7279.0
42.5°	7087.3	7090.6	7414.5	7444.3	7599.6	7665.7	7708.7	7741.8	8088.9	8657.4	7996.3
45°	7358.3	7374.8	7659.1	7887.2	8128.5	8151.7	8313.6	8422.7	8849.2	9546.6	8776.4
47.5°	7715.3	7695.5	7999.6	8363.2	8664.0	8822.7	9017.7	9136.7	9662.3	10511.9	9629.3
50°	8184.7	8125.2	8300.4	8872.3	9226.0	9401.2	9748.3	9946.6	10561.5	11434.1	10214.4
52.5°	8756.6	8657.4	8796.3	9421.0	9817.7	10171.4	10502.0	10723.4	11364.7	12148.2	10647.4
55°	9361.5	9156.6	9196.2	10002.8	10574.7	10908.6	11361.4	11592.8	12247.3	12789.5	11080.4
57.5°	9959.8	9830.9	9751.6	10561.5	11477.1	11797.8	12214.3	12515.1	13070.4	13358.0	11447.4
60°	10462.3	10429.2	10300.3	11427.5	12432.4	12706.8	13143.2	13328.3	13748.1	13883.6	11454.0
62.5°	10875.5	10763.1	10968.1	12125.0	13404.3	13715.0	14194.3	14210.9	14508.4	14210.9	11116.8
65°	11199.5	11206.1	11533.3	12968.0	14528.2	14987.7	15374.5	15331.5	15139.8	14015.8	10320.2
67.5°	11493.7	11619.3	12098.6	13893.5	15972.8	16405.8	16835.5	16267.0	15311.6	13103.5	8763.2
70°	11725.0	11850.7	12862.2	15020.8	17675.2	18309.8	18405.7	16637.2	14521.6	11100.3	6611.2
72.5°	11698.6	11926.7	13295.2	15919.9	19185.8	19734.6	18961.1	15595.9	12098.6	7738.5	3857.7
73°	11754.8	11867.2	13258.9	16171.1	19645.3	19919.7	18703.2	15268.7	11411.0	6941.8	3262.6
75°	10670.6	11050.7	12601.0	15761.2	19152.8	19103.2	17222.3	12723.3	8112.0	3646.1	1580.1
77.5°	7893.8	8135.1	9930.1	12961.3	15721.5	15404.2	12991.1	8131.8	3851.1	1352.0	852.9
80°	3857.7	4046.1	5262.6	7483.9	10280.5	10306.9	8062.4	4231.2	1649.5	763.6	581.8
82.5°	1927.2	2039.6	2528.8	3289.1	5057.6	5298.9	4089.1	2406.5	1021.4	433.0	330.6
85°	1259.4	1338.8	1556.9	1609.8	2145.3	2264.4	1904.0	1877.6	664.4	234.7	267.8
87.5°	836.3	849.5	955.3	813.2	859.5	826.4	919.0	1183.4	195.0	99.2	72.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P481020
 CATALOG NUMBER: IFLD-S-SA6C-827-U-SL4

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5259.2	5259.2	5259.2	5259.2	5259.2	5259.2	5259.2	5259.2	5259.2	5259.2	5259.2
2.5°	5242.7	5196.4	5146.9	5077.4	5027.9	4951.8	4882.4	4852.7	4846.0	4849.3	4816.3
5°	5107.2	5041.1	4941.9	4799.8	4717.1	4591.5	4485.7	4429.5	4370.0	4380.0	4353.5
7.5°	4918.8	4846.0	4694.0	4528.7	4323.8	4145.3	4046.1	3907.2	3827.9	3768.4	3801.5
10°	4859.3	4733.7	4505.6	4277.5	3960.1	3725.4	3497.3	3338.7	3229.6	3123.8	3170.1
12.5°	4829.5	4703.9	4386.6	4049.4	3639.5	3282.5	2961.8	2766.8	2611.4	2518.9	2555.2
15°	4803.1	4647.7	4274.2	3798.2	3338.7	2869.3	2509.0	2251.1	2102.4	2013.1	2023.0
17.5°	4839.4	4618.0	4108.9	3553.5	3008.1	2505.7	2105.7	1837.9	1685.9	1629.7	1616.4
20°	4803.1	4584.9	3946.9	3308.9	2677.6	2158.6	1775.1	1553.6	1447.9	1401.6	1391.7
22.5°	4816.3	4505.6	3778.3	3037.9	2370.1	1867.7	1553.6	1385.1	1302.4	1279.3	1285.9
25°	4879.1	4459.3	3609.7	2740.4	2066.0	1652.8	1411.5	1282.6	1223.1	1199.9	1206.6
27.5°	4925.4	4499.0	3457.7	2459.4	1808.2	1461.1	1292.5	1206.6	1166.9	1150.4	1147.1
30°	5041.1	4522.1	3308.9	2208.2	1596.6	1335.5	1209.9	1140.4	1114.0	1104.1	1100.8
32.5°	5213.0	4565.1	3137.0	1976.8	1441.3	1216.5	1143.7	1084.2	1077.6	1067.7	1071.0
35°	5493.9	4713.8	2945.3	1778.4	1292.5	1137.1	1074.3	1034.7	1034.7	1034.7	1044.6
37.5°	5897.2	4922.1	2773.4	1590.0	1196.6	1067.7	1014.8	1001.6	995.0	1004.9	1011.5
40°	6416.2	5173.3	2634.6	1441.3	1114.0	1021.4	975.2	968.5	965.2	961.9	968.5
42.5°	6984.8	5493.9	2515.6	1325.6	1054.5	971.9	938.8	932.2	919.0	925.6	935.5
45°	7550.0	5890.6	2409.8	1233.0	1014.8	945.4	899.1	895.8	889.2	885.9	902.4
47.5°	8178.1	6280.7	2376.7	1176.8	985.1	905.7	872.7	869.4	849.5	846.2	859.5
50°	8667.3	6568.3	2413.1	1150.4	942.1	876.0	852.9	836.3	819.8	803.3	803.3
52.5°	9004.5	6766.6	2439.5	1130.5	919.0	836.3	806.6	800.0	783.4	766.9	760.3
55°	9308.6	6885.6	2446.2	1133.8	895.8	790.0	770.2	766.9	757.0	730.5	723.9
57.5°	9411.1	6836.0	2313.9	1104.1	882.6	760.3	733.8	740.5	727.2	704.1	700.8
60°	9401.2	6492.2	2013.1	1064.4	852.9	727.2	694.2	714.0	714.0	687.6	684.3
62.5°	8829.3	5698.9	1646.2	988.4	819.8	694.2	657.8	687.6	697.5	681.0	677.7
65°	7642.6	4641.1	1375.1	912.4	770.2	657.8	621.5	654.5	671.0	664.4	661.1
67.5°	6323.7	3550.2	1143.7	813.2	707.4	608.2	578.5	601.6	611.5	614.8	618.2
70°	4469.2	2363.5	955.3	704.1	621.5	555.3	522.3	525.6	522.3	532.2	532.2
72.5°	2429.6	1361.9	776.8	598.3	535.5	482.6	459.5	443.0	443.0	439.6	439.6
73°	2079.2	1223.1	740.5	581.8	512.4	469.4	443.0	429.7	429.7	426.4	423.1
75°	1166.9	895.8	634.7	499.1	443.0	409.9	390.1	370.2	366.9	366.9	366.9
77.5°	766.9	697.5	505.8	400.0	357.0	327.3	320.6	300.8	300.8	300.8	297.5
80°	575.2	548.7	390.1	304.1	274.4	251.2	244.6	231.4	228.1	214.9	218.2
82.5°	383.5	433.0	284.3	214.9	185.1	171.9	171.9	168.6	158.7	142.1	142.1
85°	304.1	353.7	204.9	132.2	109.1	92.6	95.9	92.6	89.3	72.7	69.4
87.5°	56.2	142.1	59.5	36.4	26.4	16.5	16.5	9.9	6.6	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)