

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: P481019

Luminaire Tested: **IFLD-S-SA6B-827-U-SL4**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P481019  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6B-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**

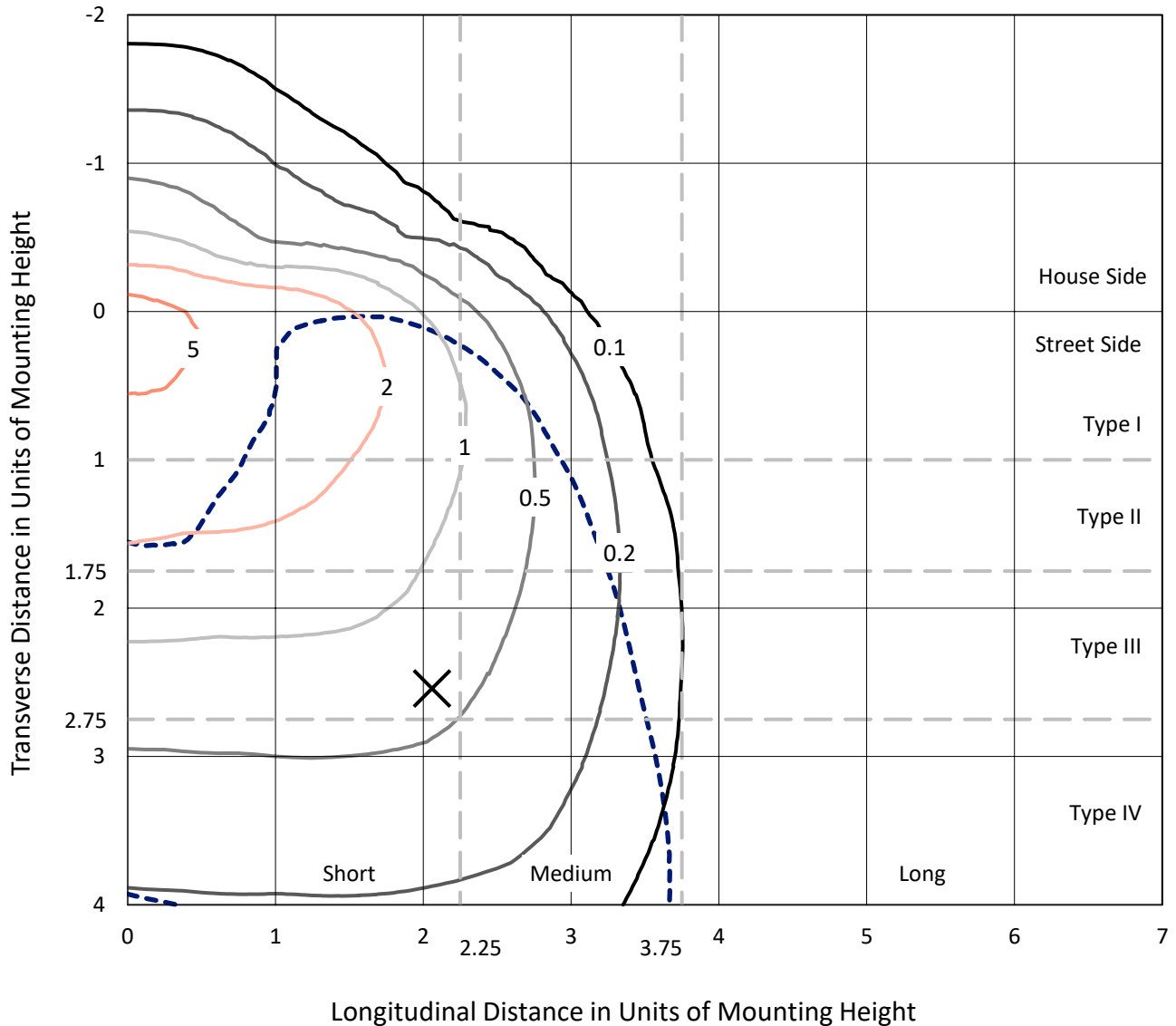
Lumens per Lamp: N/A  
Luminaire Lumens: 23734.5 lumens  
Efficiency: N/A  
Efficacy: 96.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4

Input Watts (W): 244.9  
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

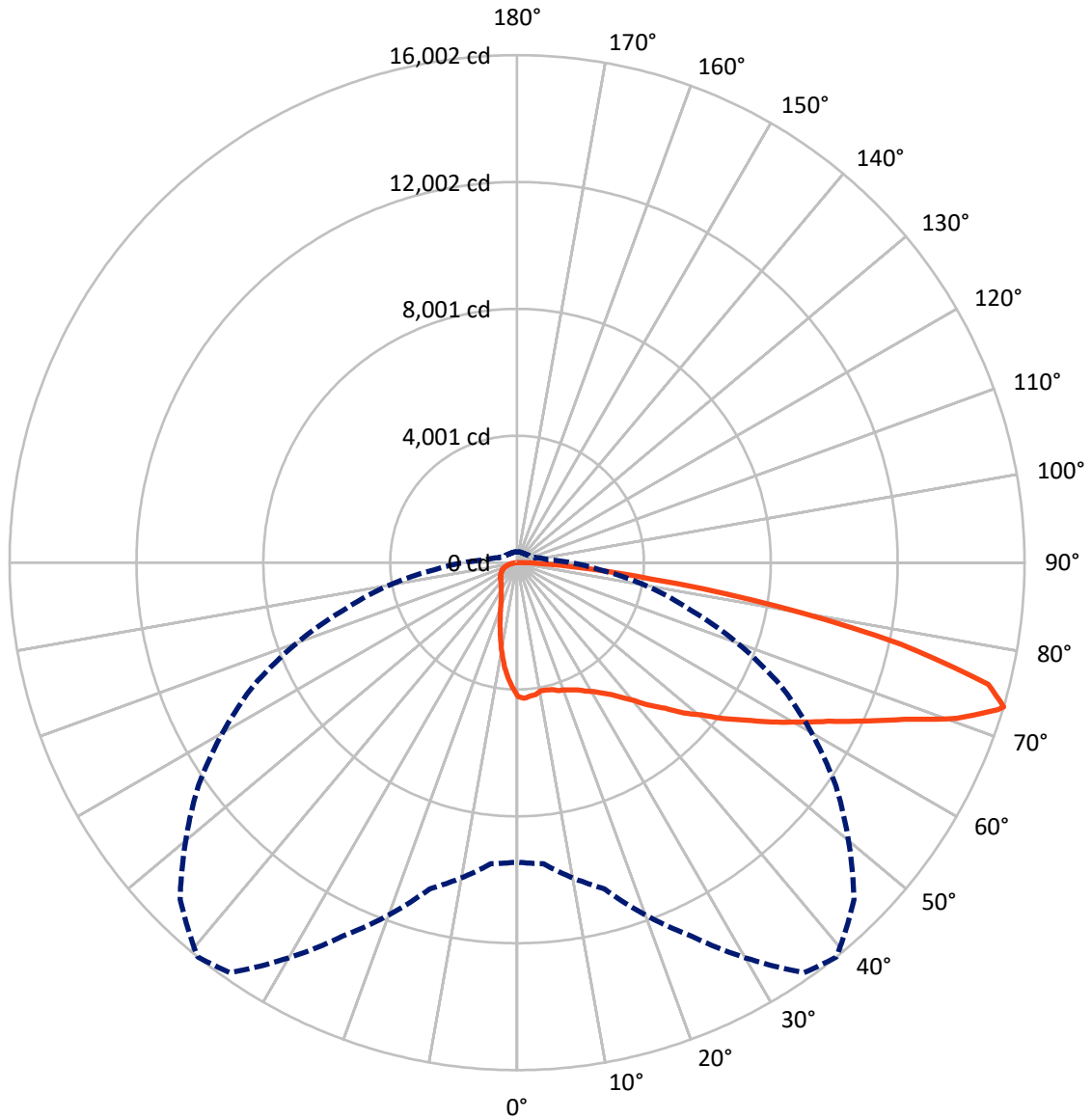
× Max cd  
 - - - 1/2 Max cd



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
<b>House Side</b>	Lumens	3336.4	0.0	3336.4
	% Fixture	14.1	0.0	14.1
<b>Street Side</b>	Lumens	20398.1	0.0	20398.1
	% Fixture	85.9	0.0	85.9
<b>Total</b>	Lumens	23734.5	0.0	23734.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	366.8	1.5
10°-20°	932.3	3.9
20°-30°	1424.7	6.0
30°-40°	2077.3	8.8
40°-50°	3139.0	13.2
50°-60°	4545.4	19.2
60°-70°	5775.2	24.3
70°-80°	4681.7	19.7
80°-90°	792.1	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°	23734.5	100.0
0°-180°	23734.5	100.0

**Coefficient of Utilization**



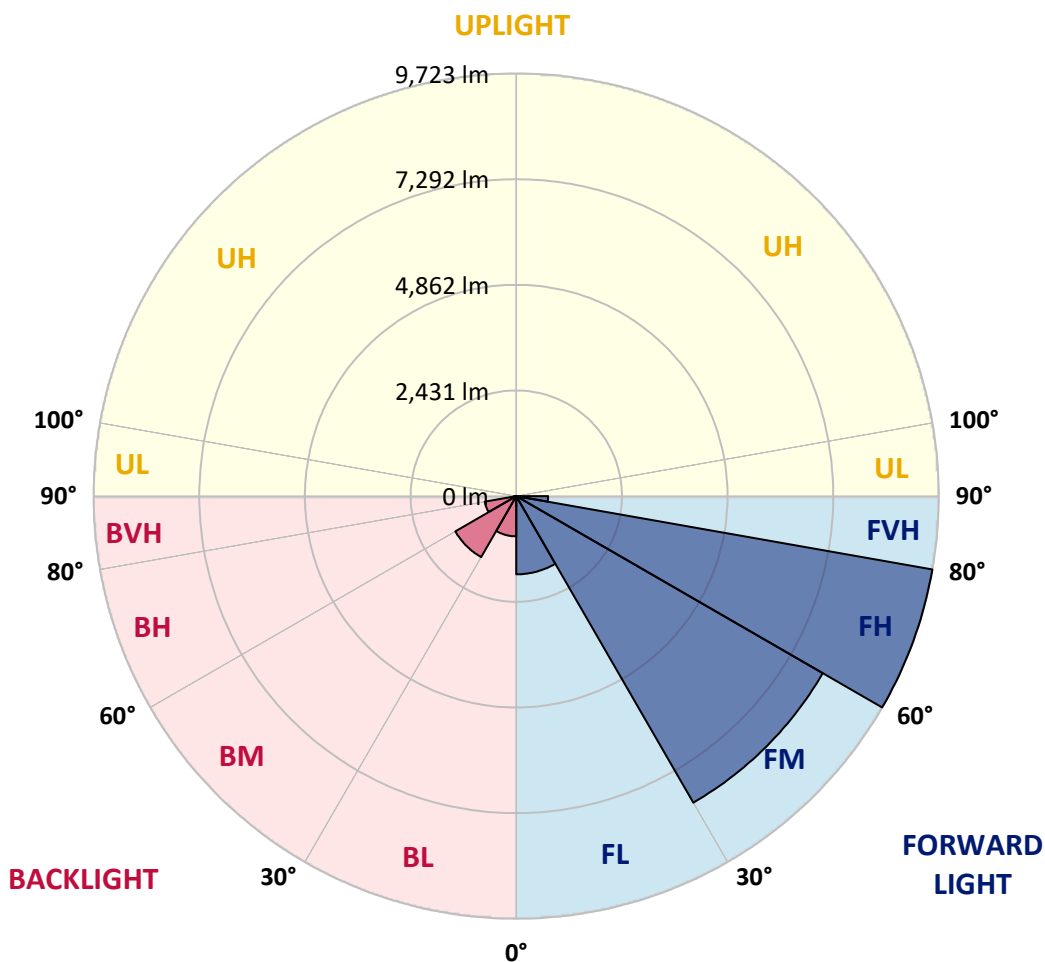
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1798.6	7.6			
FM (30°-60°)	8142.5	34.3			
FH (60°-80°)	9723.1	41.0			G4/12000
FVH (80°-90°)	734.0	3.1			G4/750
BL (0°-30°)	925.3	3.9	B2/1000		
BM (30°-60°)	1619.2	6.8	B2/2500		
BH (60°-80°)	733.8	3.1	B2/1000		G2/1000
BVH (80°-90°)	58.1	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°	4224.9	4224.9	4224.9	4224.9	4224.9	4224.9	4224.9	4224.9	4224.9	4224.9	4224.9
2.5°	4325.8	4280.7	4288.6	4272.7	4288.6	4283.3	4275.3	4235.5	4275.3	4235.5	4224.9
5°	4267.4	4267.4	4293.9	4254.1	4259.4	4232.9	4259.4	4230.2	4203.6	4137.3	4118.7
7.5°	4248.8	4246.1	4248.8	4193.0	4219.6	4203.6	4177.1	4145.2	4092.1	4049.6	3988.6
10°	4121.3	4147.9	4118.7	4134.6	4155.8	4108.0	4105.4	4097.4	4073.5	4017.8	3980.6
12.5°	4052.3	4097.4	4113.4	4100.1	4118.7	4124.0	4108.0	4097.4	4068.2	4031.0	3924.8
15°	4081.5	4028.4	4073.5	4161.2	4142.6	4155.8	4158.5	4147.9	4134.6	4065.6	3996.5
17.5°	4089.5	4057.6	4153.2	4171.8	4195.7	4243.5	4211.6	4209.0	4158.5	4110.7	4009.8
20°	4108.0	4094.8	4171.8	4270.0	4272.7	4280.7	4296.6	4256.8	4230.2	4147.9	3993.9
22.5°	4177.1	4222.2	4293.9	4336.4	4360.3	4365.6	4365.6	4286.0	4256.8	4190.4	4068.2
25°	4384.2	4336.4	4437.3	4487.8	4453.3	4445.3	4426.7	4355.0	4323.1	4264.7	4102.7
27.5°	4535.6	4532.9	4591.3	4660.4	4567.5	4586.0	4519.7	4498.4	4426.7	4394.8	4163.8
30°	4742.7	4801.1	4798.5	4819.7	4697.6	4718.8	4633.8	4594.0	4554.2	4572.8	4344.4
32.5°	5008.3	4987.0	5021.5	5005.6	4883.5	4902.0	4801.1	4740.1	4753.3	4809.1	4591.3
35°	5178.2	5157.0	5170.2	5170.2	5133.1	5111.8	5069.3	4989.7	5053.4	5157.0	4867.5
37.5°	5361.4	5388.0	5465.0	5449.1	5401.3	5401.3	5396.0	5340.2	5422.5	5677.4	5308.3
40°	5523.4	5595.1	5642.9	5674.8	5730.6	5730.6	5775.7	5743.8	5892.5	6301.5	5847.4
42.5°	5693.4	5696.0	5956.3	5980.2	6105.0	6158.1	6192.6	6219.2	6498.0	6954.7	6423.6
45°	5911.1	5924.4	6152.8	6336.0	6529.9	6548.4	6678.6	6766.2	7108.8	7669.1	7050.3
47.5°	6197.9	6182.0	6426.3	6718.4	6960.1	7087.5	7244.2	7339.8	7762.0	8444.5	7735.5
50°	6575.0	6527.2	6667.9	7127.3	7411.5	7552.2	7831.1	7990.4	8484.3	9185.4	8205.5
52.5°	7034.4	6954.7	7066.3	7568.2	7886.8	8171.0	8436.5	8614.4	9129.6	9758.9	8553.3
55°	7520.4	7355.7	7387.6	8035.5	8494.9	8763.1	9126.9	9312.8	9838.6	10274.1	8901.2
57.5°	8001.0	7897.4	7833.7	8484.3	9219.9	9477.5	9812.1	10053.7	10499.8	10730.9	9196.0
60°	8404.6	8378.1	8274.5	9180.0	9987.3	10207.7	10558.2	10707.0	11044.2	11153.1	9201.3
62.5°	8736.6	8646.3	8810.9	9740.4	10768.0	11017.6	11402.7	11416.0	11655.0	11416.0	8930.4
65°	8996.8	9002.1	9265.0	10417.5	11670.9	12040.0	12350.7	12316.2	12162.2	11259.3	8290.5
67.5°	9233.2	9334.1	9719.1	11161.0	12831.3	13179.2	13524.4	13067.7	12300.2	10526.4	7039.7
70°	9419.0	9519.9	10332.5	12066.6	14198.9	14708.8	14785.8	13365.1	11665.6	8917.1	5311.0
72.5°	9397.8	9581.0	10680.4	12788.9	15412.5	15853.3	15231.9	12528.6	9719.1	6216.5	3099.0
73°	9442.9	9533.2	10651.2	12990.7	15781.6	16002.0	15024.8	12265.7	9166.8	5576.5	2621.0
75°	8571.9	8877.3	10122.7	12661.4	15385.9	15346.1	13835.1	10221.0	6516.6	2929.0	1269.3
77.5°	6341.3	6535.2	7977.1	10412.2	12629.5	12374.6	10436.1	6532.5	3093.7	1086.1	685.1
80°	3099.0	3250.3	4227.5	6012.0	8258.6	8279.8	6476.8	3399.0	1325.1	613.4	467.4
82.5°	1548.2	1638.4	2031.5	2642.2	4062.9	4256.8	3284.8	1933.2	820.5	347.9	265.5
85°	1011.7	1075.5	1250.7	1293.2	1723.4	1819.0	1529.6	1508.3	533.8	188.5	215.1
87.5°	671.8	682.5	767.4	653.3	690.4	663.9	738.2	950.7	156.7	79.7	58.4
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°	4224.9	4224.9	4224.9	4224.9	4224.9	4224.9	4224.9	4224.9	4224.9	4224.9	4224.9
2.5°	4211.6	4174.4	4134.6	4078.8	4039.0	3977.9	3922.2	3898.3	3893.0	3895.6	3869.1
5°	4102.7	4049.6	3970.0	3855.8	3789.4	3688.5	3603.5	3558.4	3510.6	3518.5	3497.3
7.5°	3951.4	3893.0	3770.8	3638.0	3473.4	3330.0	3250.3	3138.8	3075.1	3027.3	3053.8
10°	3903.6	3802.7	3619.4	3436.2	3181.3	2992.7	2809.5	2682.0	2594.4	2509.4	2546.6
12.5°	3879.7	3778.8	3523.8	3253.0	2923.7	2636.9	2379.3	2222.6	2097.8	2023.5	2052.7
15°	3858.4	3733.6	3433.6	3051.2	2682.0	2305.0	2015.5	1808.4	1688.9	1617.2	1625.2
17.5°	3887.6	3709.7	3300.8	2854.7	2416.5	2012.9	1691.5	1476.5	1354.3	1309.2	1298.5
20°	3858.4	3683.2	3170.7	2658.1	2151.0	1734.0	1426.0	1248.1	1163.1	1125.9	1118.0
22.5°	3869.1	3619.4	3035.2	2440.4	1904.0	1500.4	1248.1	1112.7	1046.3	1027.7	1033.0
25°	3919.5	3582.3	2899.8	2201.4	1659.7	1327.7	1133.9	1030.3	982.5	963.9	969.3
27.5°	3956.7	3614.1	2777.6	1975.7	1452.6	1173.7	1038.3	969.3	937.4	924.1	921.5
30°	4049.6	3632.7	2658.1	1773.9	1282.6	1072.8	971.9	916.1	894.9	886.9	884.3
32.5°	4187.7	3667.2	2520.1	1588.0	1157.8	977.2	918.8	871.0	865.7	857.7	860.4
35°	4413.4	3786.7	2366.0	1428.7	1038.3	913.5	863.0	831.2	831.2	831.2	839.1
37.5°	4737.4	3954.0	2228.0	1277.3	961.3	857.7	815.2	804.6	799.3	807.3	812.6
40°	5154.3	4155.8	2116.4	1157.8	894.9	820.5	783.4	778.1	775.4	772.7	778.1
42.5°	5611.1	4413.4	2020.8	1064.9	847.1	780.7	754.2	748.8	738.2	743.5	751.5
45°	6065.1	4732.1	1935.9	990.5	815.2	759.5	722.3	719.6	714.3	711.7	724.9
47.5°	6569.7	5045.4	1909.3	945.4	791.3	727.6	701.1	698.4	682.5	679.8	690.4
50°	6962.7	5276.5	1938.5	924.1	756.8	703.7	685.1	671.8	658.6	645.3	645.3
52.5°	7233.6	5435.8	1959.8	908.2	738.2	671.8	647.9	642.6	629.4	616.1	610.8
55°	7477.9	5531.4	1965.1	910.8	719.6	634.7	618.7	616.1	608.1	586.9	581.6
57.5°	7560.2	5491.6	1858.8	886.9	709.0	610.8	589.5	594.8	584.2	565.6	563.0
60°	7552.2	5215.4	1617.2	855.1	685.1	584.2	557.7	573.6	573.6	552.3	549.7
62.5°	7092.8	4578.1	1322.4	794.0	658.6	557.7	528.4	552.3	560.3	547.0	544.4
65°	6139.5	3728.3	1104.7	732.9	618.7	528.4	499.2	525.8	539.1	533.8	531.1
67.5°	5080.0	2852.0	918.8	653.3	568.3	488.6	464.7	483.3	491.3	493.9	496.6
70°	3590.2	1898.7	767.4	565.6	499.2	446.1	419.6	422.2	419.6	427.5	427.5
72.5°	1951.8	1094.1	624.0	480.6	430.2	387.7	369.1	355.8	355.8	353.2	353.2
73°	1670.3	982.5	594.8	467.4	411.6	377.1	355.8	345.2	345.2	342.6	339.9
75°	937.4	719.6	509.9	401.0	355.8	329.3	313.3	297.4	294.8	294.8	294.8
77.5°	616.1	560.3	406.3	321.3	286.8	262.9	257.6	241.6	241.6	241.6	239.0
80°	462.1	440.8	313.3	244.3	220.4	201.8	196.5	185.9	183.2	172.6	175.3
82.5°	308.0	347.9	228.4	172.6	148.7	138.1	138.1	135.4	127.5	114.2	114.2
85°	244.3	284.1	164.6	106.2	87.6	74.4	77.0	74.4	71.7	58.4	55.8
87.5°	45.1	114.2	47.8	29.2	21.2	13.3	13.3	8.0	5.3	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)