

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: P480381

Luminaire Tested: **IFLD-S-SA3C-727-U-SL3**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480381
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-727-U-SL3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens
Light Source: (48) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

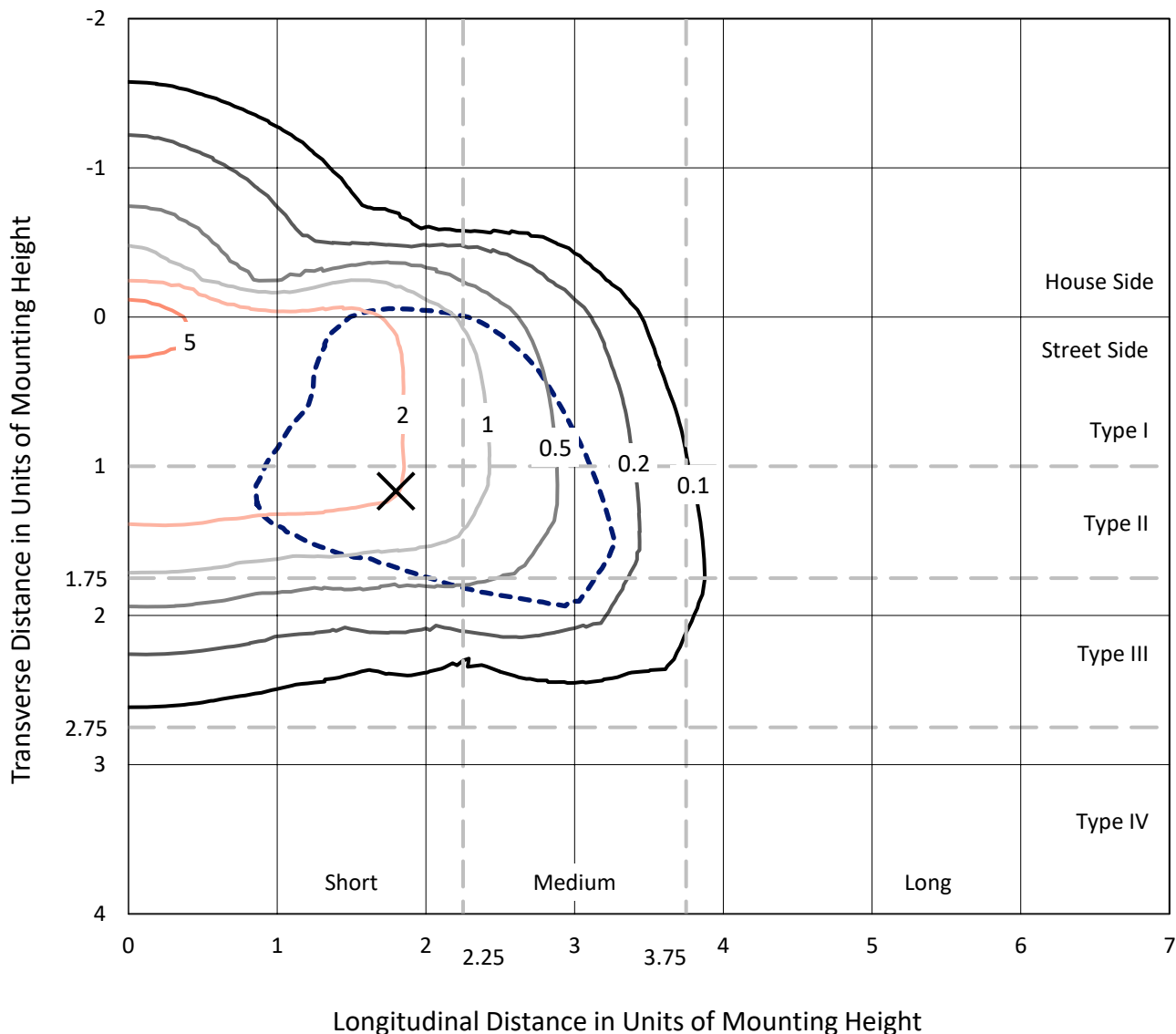
Lumens per Lamp: N/A
Luminaire Lumens: 17479.3 lumens
Efficiency: N/A
Efficacy: 108.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 160.8
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

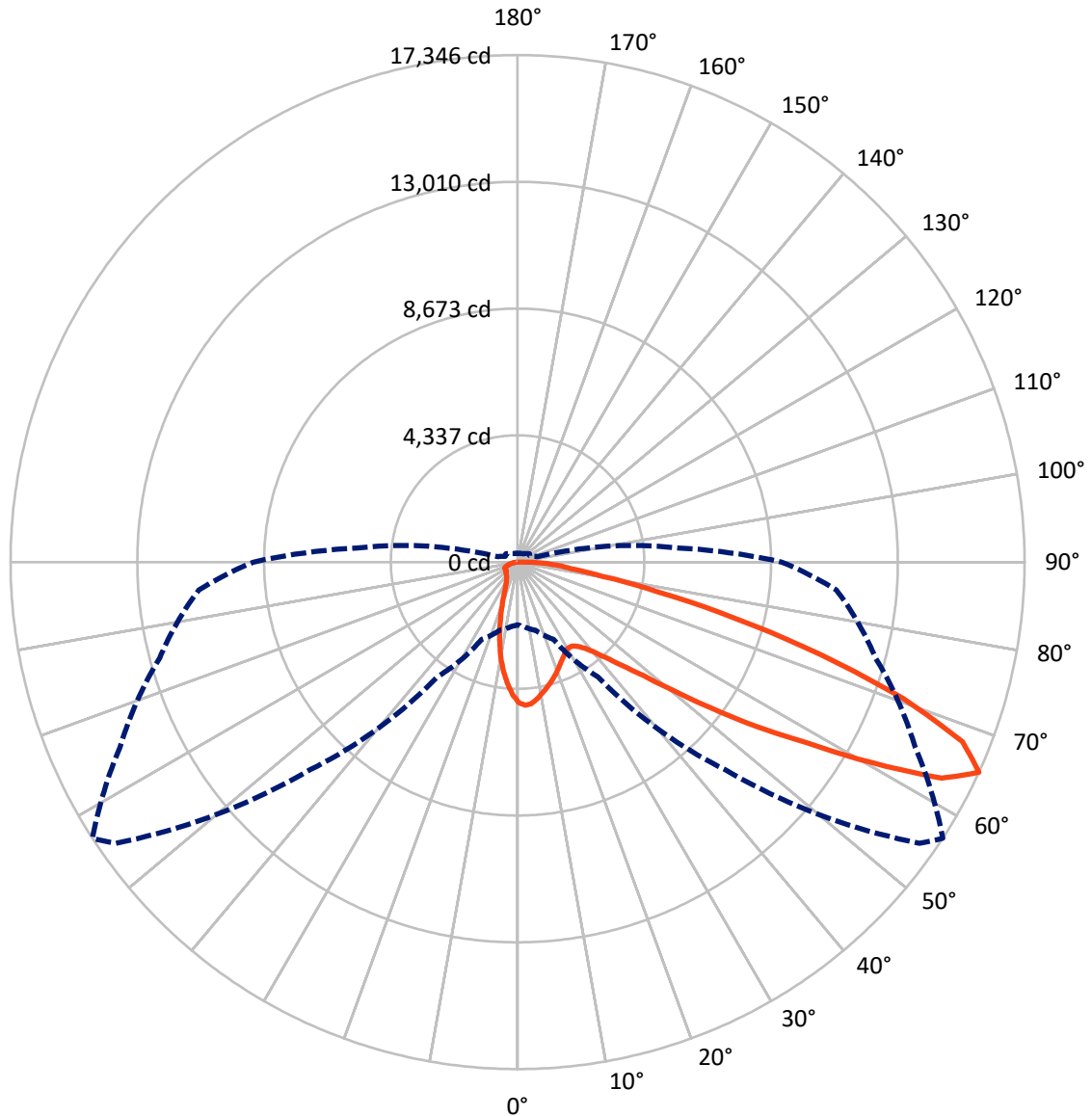
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2680.6	0.0	2680.6
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	14798.7	0.0	14798.7
	% Fixture	84.7	0.0	84.7
Total	Lumens	17479.3	0.0	17479.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	402.5	2.3
10°-20°	866.3	5.0
20°-30°	1120.0	6.4
30°-40°	1507.2	8.6
40°-50°	2403.2	13.7
50°-60°	4244.7	24.3
60°-70°	4669.8	26.7
70°-80°	1953.4	11.2
80°-90°	312.2	1.8
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°	17479.3	100.0
0°-180°	17479.3	100.0

Coefficient of Utilization



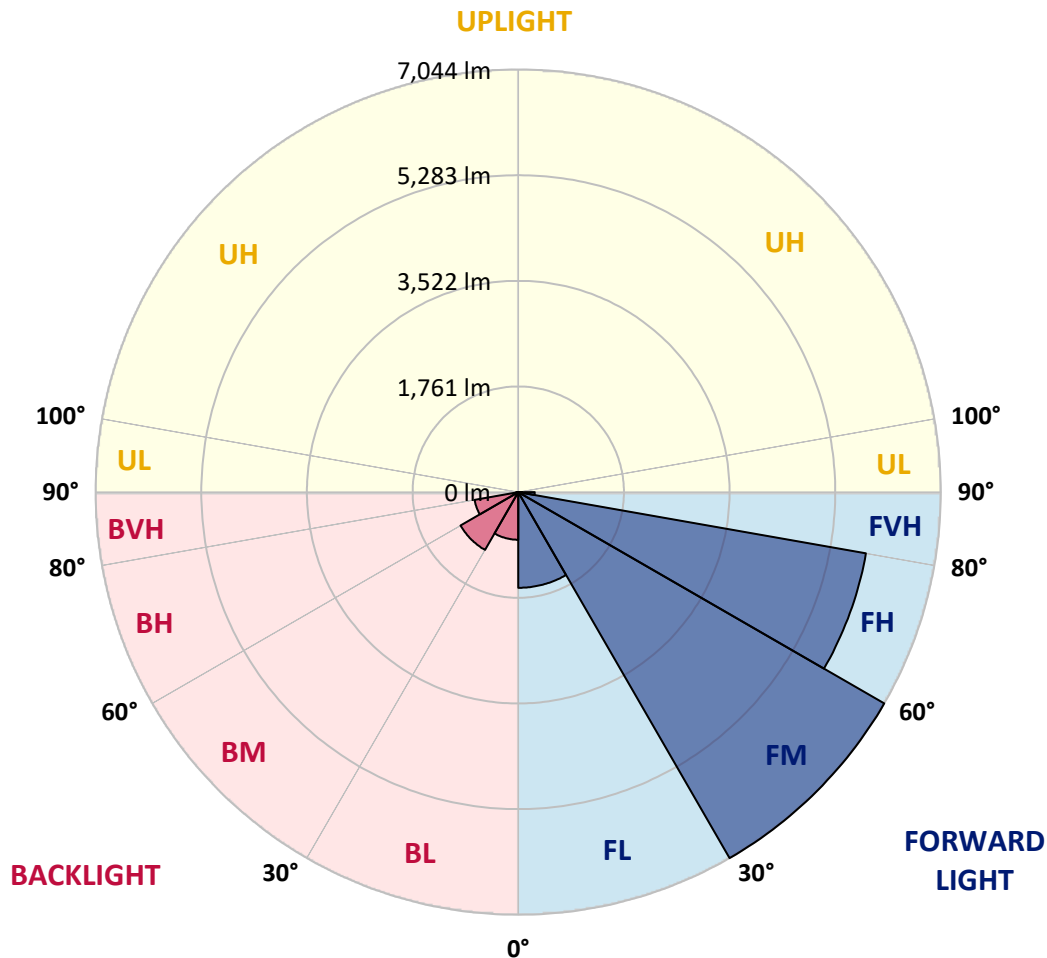
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1594.9	9.1			
FM (30°-60°)	7044.2	40.3			
FH (60°-80°)	5884.1	33.7			G3/7500
FVH (80°-90°)	275.6	1.6			G3/500
BL (0°-30°)	793.9	4.5	B2/1000		
BM (30°-60°)	1111.0	6.4	B2/2500		
BH (60°-80°)	739.1	4.2	B2/1000		G2/1000
BVH (80°-90°)	36.6	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-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	4806.6	4806.6	4806.6	4806.6	4806.6	4806.6	4806.6	4806.6	4806.6	4806.6	4806.6
2.5°	4936.4	4944.2	4944.2	4960.0	4906.9	4932.4	4928.5	4904.9	4912.8	4871.5	4830.2
5°	4796.7	4790.8	4822.3	4826.2	4867.5	4879.3	4889.2	4873.4	4877.4	4786.9	4747.6
7.5°	4438.8	4436.8	4489.9	4535.2	4621.7	4702.3	4755.4	4739.7	4761.3	4704.3	4611.9
10°	4014.0	4059.2	4114.3	4159.5	4318.8	4421.1	4558.8	4572.5	4655.1	4641.4	4474.2
12.5°	3695.4	3715.1	3756.4	3886.2	4031.7	4200.8	4397.5	4415.2	4495.8	4535.2	4389.6
15°	3433.8	3451.5	3504.6	3601.0	3764.2	3964.8	4214.6	4259.8	4421.1	4434.9	4279.5
17.5°	3243.1	3256.8	3292.2	3388.6	3522.3	3780.0	4016.0	4096.6	4309.0	4375.9	4165.4
20°	3168.3	3138.8	3158.5	3219.5	3353.2	3551.8	3856.7	3927.5	4198.9	4330.6	4057.3
22.5°	3134.9	3109.3	3121.1	3117.2	3223.4	3365.0	3685.6	3760.3	4094.6	4277.5	3960.9
25°	3160.5	3160.5	3148.7	3138.8	3150.6	3243.1	3500.7	3616.7	3955.0	4232.3	3862.6
27.5°	3298.1	3245.0	3250.9	3209.6	3197.8	3197.8	3418.1	3486.9	3909.8	4206.7	3781.9
30°	3386.6	3412.2	3414.2	3353.2	3292.2	3182.1	3341.4	3408.3	3872.4	4238.2	3734.7
32.5°	3612.8	3601.0	3567.6	3555.8	3465.3	3341.4	3378.8	3424.0	3850.8	4309.0	3748.5
35°	3839.0	3833.1	3835.0	3829.1	3734.7	3551.8	3479.1	3540.0	3890.1	4432.9	3795.7
37.5°	4073.0	4088.7	4155.6	4155.6	4055.3	3856.7	3760.3	3742.6	4033.7	4635.5	3907.8
40°	4307.0	4346.4	4430.9	4564.7	4423.1	4238.2	4082.8	4055.3	4206.7	4906.9	4177.2
42.5°	4531.2	4596.1	4763.3	4961.9	4914.7	4729.9	4523.4	4491.9	4562.7	5310.0	4552.9
45°	4818.4	4873.4	5137.0	5441.8	5506.7	5343.5	5101.6	5076.0	5072.1	5900.0	5070.1
47.5°	5255.0	5314.0	5577.5	5884.3	6084.9	6110.5	5839.1	5811.5	5717.1	6696.6	5827.3
50°	5801.7	5898.1	6120.3	6478.3	6769.3	7042.7	6966.0	6885.4	6700.5	7622.9	6787.0
52.5°	6200.9	6319.0	6619.9	7078.1	7591.4	8026.0	8301.4	8301.4	7876.6	8639.6	7941.5
55°	6307.2	6378.0	6757.5	7420.3	8299.4	9398.8	9975.0	9931.7	9276.8	9709.5	9284.7
57.5°	5884.3	5976.7	6437.0	7131.2	8671.1	10683.0	11636.9	11646.7	10806.9	10952.5	10610.3
60°	4720.0	4749.5	5292.3	6220.6	8313.2	11717.5	13906.4	13943.8	12547.4	12059.7	11284.8
62.5°	3262.7	3357.1	3766.2	4580.4	6887.3	11601.5	16095.3	16280.2	13941.8	12643.8	11391.0
65°	2147.6	2204.7	2423.0	2918.6	4794.8	10055.6	16775.8	17346.1	15007.8	12677.2	10946.6
67.5°	1557.6	1567.4	1632.3	1888.0	2881.2	7231.5	15613.5	16417.9	15407.0	12398.0	9904.2
70°	1258.7	1266.5	1290.1	1453.4	1860.5	4525.3	12734.3	13994.9	14209.3	11074.4	7976.9
72.5°	1022.7	1032.5	1062.0	1215.4	1534.0	2517.4	9312.2	10848.2	11558.2	8193.2	5302.2
75°	804.4	812.2	883.0	1034.5	1441.6	1728.7	6177.3	7681.9	7778.2	4788.9	2482.0
77.5°	550.7	564.4	651.0	877.1	1357.0	1512.4	3850.8	4920.6	4415.2	1874.2	853.5
80°	350.1	369.7	420.9	664.7	1199.7	1443.5	2395.4	2938.2	1933.2	641.1	411.0
82.5°	206.5	226.2	277.3	430.7	942.0	1339.3	1687.4	1838.8	906.6	328.4	247.8
85°	114.1	127.8	167.2	259.6	552.6	1189.8	1351.1	1319.6	519.2	175.0	155.4
87.5°	37.4	43.3	61.0	104.2	228.1	560.5	810.3	761.1	269.4	80.6	61.0
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°	4806.6	4806.6	4806.6	4806.6	4806.6	4806.6	4806.6	4806.6	4806.6	4806.6	4806.6
2.5°	4802.6	4796.7	4708.2	4641.4	4527.3	4432.9	4395.5	4344.4	4342.4	4305.1	4295.2
5°	4686.6	4625.6	4489.9	4360.1	4157.6	4021.9	3898.0	3811.4	3776.0	3699.3	3681.6
7.5°	4537.1	4456.5	4248.0	4004.2	3766.2	3553.8	3361.1	3168.3	3060.2	3022.8	2981.5
10°	4381.8	4240.2	3931.4	3658.0	3325.7	2999.2	2696.3	2424.9	2277.4	2173.2	2128.0
12.5°	4257.9	4069.1	3675.7	3266.7	2828.1	2391.5	2039.4	1754.3	1587.1	1508.4	1473.0
15°	4118.2	3868.5	3396.5	2879.2	2332.5	1836.9	1492.7	1268.5	1201.6	1164.3	1158.4
17.5°	3970.7	3681.6	3093.6	2497.7	1848.7	1382.6	1160.3	1069.9	1040.4	1024.6	1016.8
20°	3833.1	3514.5	2782.9	2072.9	1447.5	1109.2	1005.0	957.8	955.8	963.7	961.7
22.5°	3638.4	3296.2	2476.1	1679.5	1156.4	965.6	898.8	887.0	898.8	908.6	912.5
25°	3528.2	3117.2	2133.9	1333.4	955.8	857.5	835.8	831.9	849.6	861.4	859.4
27.5°	3414.2	2932.3	1815.2	1067.9	837.8	780.8	776.8	780.8	798.5	816.2	814.2
30°	3325.7	2784.8	1516.3	892.9	747.3	725.7	721.8	725.7	735.5	737.5	737.5
32.5°	3252.9	2609.8	1262.6	774.9	692.3	674.6	678.5	676.5	678.5	680.5	682.4
35°	3209.6	2505.6	1054.1	702.1	647.0	633.3	631.3	625.4	627.4	629.3	627.4
37.5°	3302.1	2454.4	888.9	651.0	615.6	603.8	599.8	595.9	590.0	590.0	590.0
40°	3441.7	2426.9	788.6	617.5	592.0	578.2	566.4	562.5	562.5	564.4	566.4
42.5°	3719.0	2472.1	719.8	592.0	562.5	546.7	534.9	536.9	542.8	548.7	544.8
45°	4120.2	2609.8	688.3	572.3	544.8	523.1	515.3	513.3	519.2	529.0	536.9
47.5°	4645.3	2824.2	676.5	554.6	533.0	503.5	493.6	499.5	507.4	521.2	515.3
50°	5504.7	3306.0	686.4	538.9	515.3	493.6	481.8	475.9	481.8	491.7	495.6
52.5°	6627.7	4181.2	723.7	531.0	503.5	485.8	466.1	456.3	462.2	470.0	470.0
55°	7971.0	5376.9	828.0	521.2	483.8	474.0	452.3	432.7	436.6	436.6	434.6
57.5°	9154.9	6279.6	951.9	507.4	472.0	458.2	430.7	407.1	403.2	405.1	407.1
60°	9685.9	6519.6	1010.9	503.5	472.0	438.6	401.2	377.6	371.7	367.8	367.8
62.5°	9593.5	6104.6	890.9	485.8	483.8	422.8	373.7	348.1	340.2	332.4	334.3
65°	9034.9	5512.6	702.1	462.2	485.8	413.0	346.1	320.6	306.8	297.0	295.0
67.5°	8014.2	4706.3	556.6	444.5	466.1	395.3	322.5	293.0	281.2	271.4	267.5
70°	6269.8	3689.5	483.8	420.9	418.9	352.0	295.0	269.4	251.7	239.9	239.9
72.5°	4065.1	2332.5	415.0	373.7	361.9	295.0	255.7	239.9	226.2	216.3	216.3
75°	1840.8	1083.6	334.3	312.7	295.0	236.0	216.3	208.5	196.7	186.8	186.8
77.5°	660.8	462.2	249.8	245.8	220.3	182.9	175.0	169.1	161.3	151.4	151.4
80°	369.7	293.0	186.8	179.0	153.4	135.7	125.9	125.9	121.9	116.0	114.1
82.5°	234.0	190.8	137.7	120.0	100.3	90.5	86.5	84.6	82.6	74.7	72.8
85°	147.5	129.8	90.5	70.8	59.0	45.2	43.3	41.3	37.4	33.4	33.4
87.5°	66.9	74.7	35.4	21.6	15.7	9.8	5.9	2.0	0.0	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)