

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: P191171

Luminaire Tested: **GAN-AF-03-LED-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191171
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24288)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-03-LED-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18591.1 lumens
Efficiency: N/A
Efficacy: 112.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B2 - U0 - G3

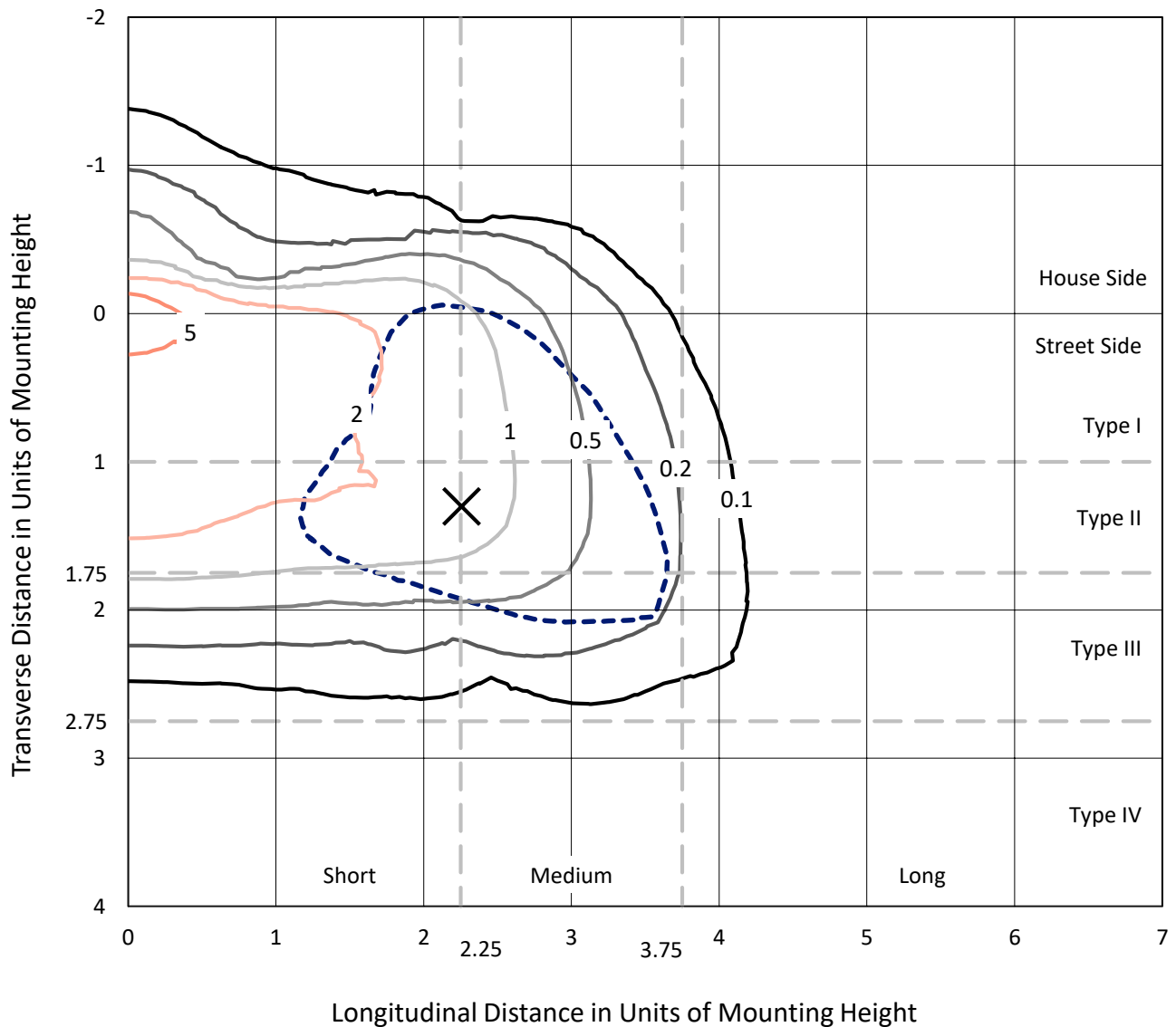
Input Watts (W): 166
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

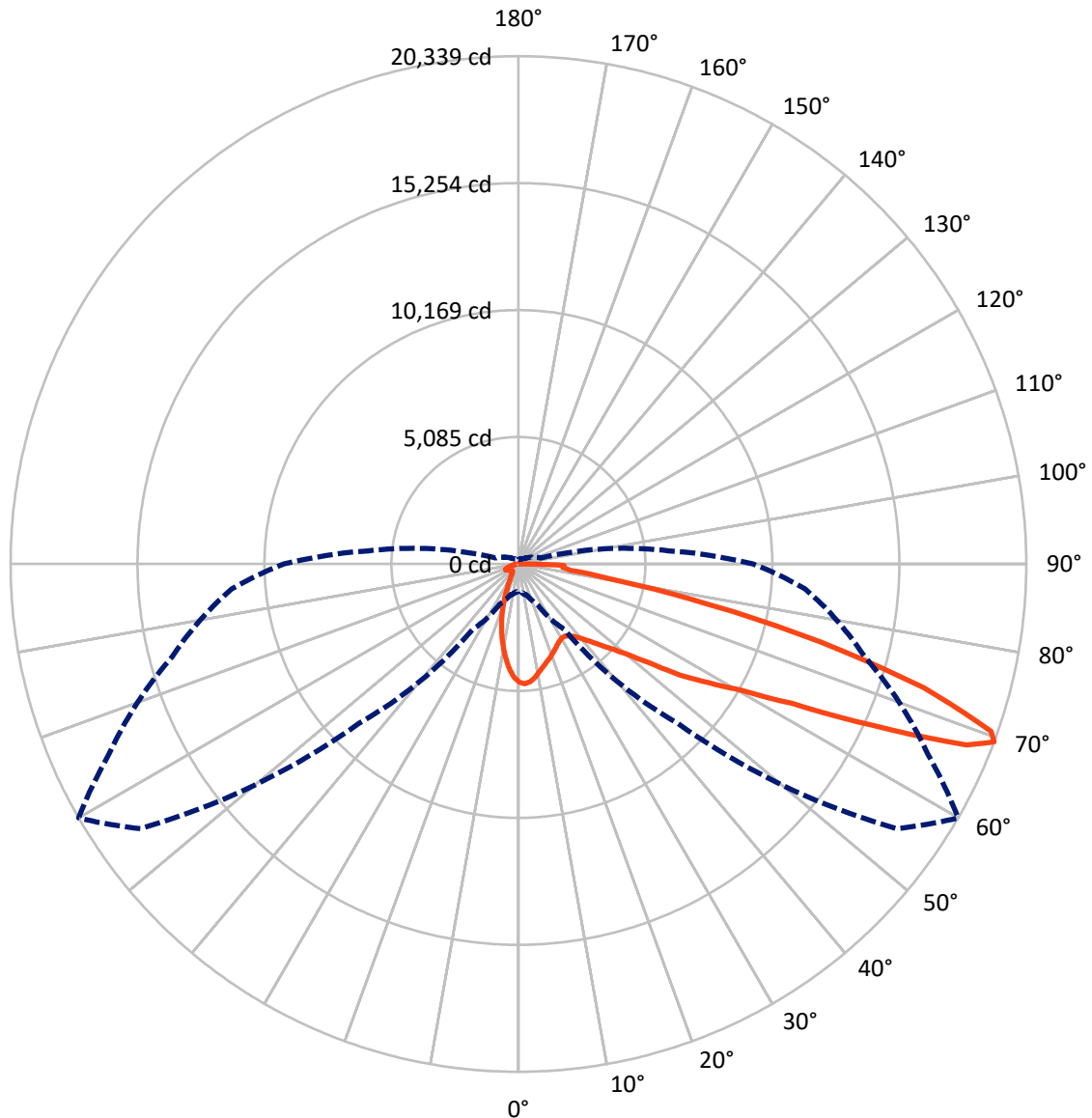
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2644.9	0.0	2644.9
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	15946.2	0.0	15946.2
	% Fixture	85.8	0.0	85.8
Total	Lumens	18591.1	0.0	18591.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	400.6	2.2
10°-20°	853.4	4.6
20°-30°	1087.4	5.8
30°-40°	1494.9	8.0
40°-50°	2425.6	13.0
50°-60°	3890.1	20.9
60°-70°	5177.4	27.8
70°-80°	2795.4	15.0
80°-90°	466.4	2.5
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°	18591.1	100.0
0°-180°	18591.1	100.0

Coefficient of Utilization



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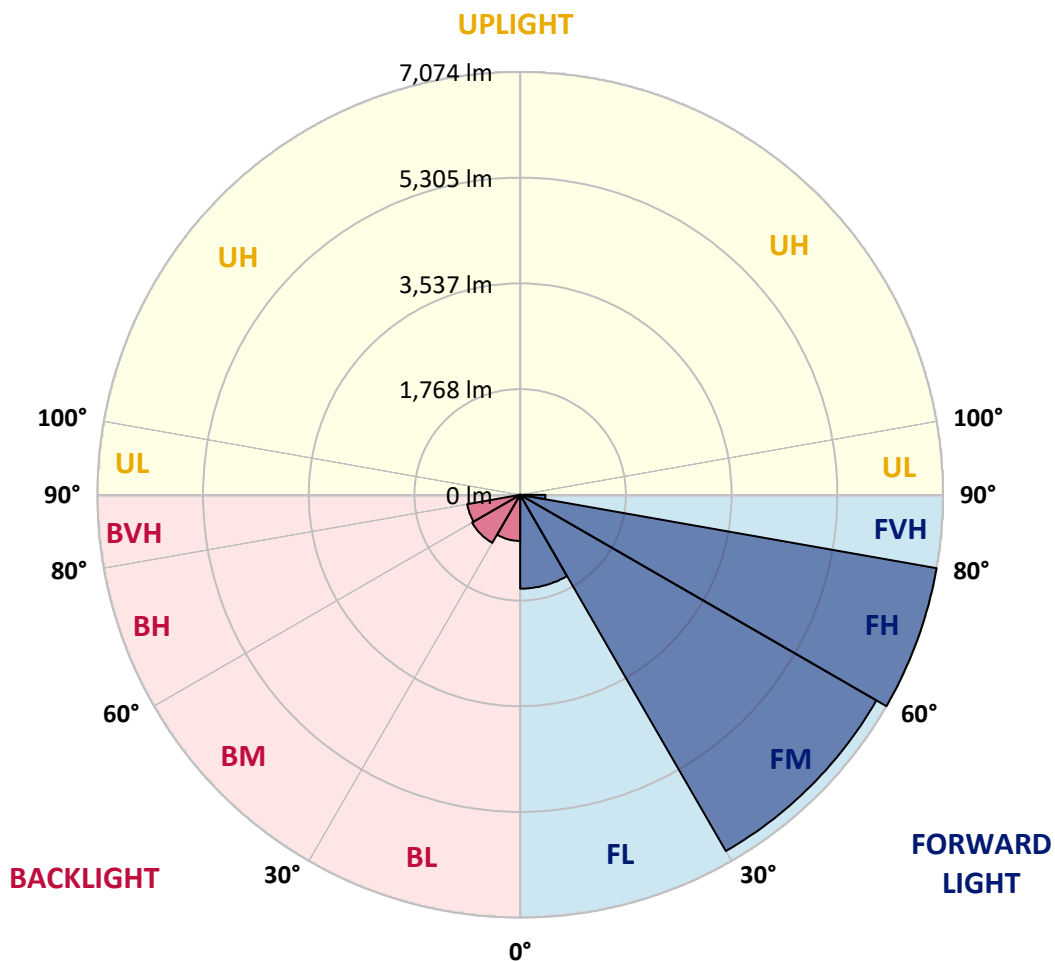
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1569.8	8.4			
FM	(30°-60°)	6881.3	37.0			
FH	(60°-80°)	7073.6	38.0			G3/7500
FVH	(80°-90°)	421.5	2.3			G3/500
BL	(0°-30°)	771.6	4.2	B2/1000		
BM	(30°-60°)	929.2	5.0	B1/1000		
BH	(60°-80°)	899.2	4.8	B2/1000		G2/1000
BVH	(80°-90°)	44.9	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-G3

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	4737.3	4737.3	4737.3	4737.3	4737.3	4737.3	4737.3	4737.3	4737.3	4737.3	4737.3
2.5°	4834.3	4845.1	4840.6	4837.8	4845.9	4833.3	4807.4	4799.3	4786.7	4757.0	4706.8
5°	4652.9	4685.2	4683.4	4707.6	4748.0	4758.9	4747.2	4748.9	4725.6	4688.8	4605.3
7.5°	4339.5	4353.0	4360.1	4413.1	4486.8	4546.0	4596.3	4612.5	4601.6	4570.2	4462.5
10°	4016.1	4026.9	4044.0	4105.9	4199.3	4281.0	4376.3	4431.0	4454.4	4449.0	4328.7
12.5°	3738.7	3749.4	3771.9	3841.9	3953.3	4053.9	4192.2	4260.4	4316.1	4349.4	4220.0
15°	3489.9	3513.2	3534.8	3615.6	3740.4	3872.5	4028.7	4114.9	4201.2	4275.7	4123.9
17.5°	3295.9	3319.3	3331.9	3405.5	3538.4	3700.0	3883.2	3984.7	4092.5	4214.7	4028.7
20°	3183.6	3194.5	3189.0	3230.4	3349.8	3521.3	3738.7	3856.3	3986.5	4157.2	3933.6
22.5°	3152.2	3153.1	3133.4	3128.9	3206.1	3350.7	3584.2	3727.0	3886.8	4119.4	3851.8
25°	3228.5	3225.9	3172.0	3128.0	3136.1	3220.5	3435.1	3601.2	3803.3	4111.3	3788.9
27.5°	3398.2	3406.3	3326.4	3243.8	3162.0	3159.4	3321.9	3497.1	3735.1	4148.2	3762.0
30°	3636.3	3649.8	3564.5	3459.3	3305.8	3179.1	3277.9	3435.1	3692.9	4224.5	3757.5
32.5°	3896.7	3911.0	3846.4	3735.9	3534.8	3301.3	3308.4	3440.5	3691.0	4331.4	3788.1
35°	4174.3	4190.4	4157.2	4063.8	3840.2	3526.7	3425.2	3527.6	3749.4	4494.8	3869.7
37.5°	4484.0	4509.2	4518.2	4429.3	4190.4	3824.0	3616.5	3692.9	3881.5	4722.0	4019.8
40°	4930.4	4965.4	4962.7	4835.2	4591.8	4225.4	3912.0	3931.7	4087.1	5025.6	4259.6
42.5°	5785.3	5792.6	5568.9	5291.4	5033.6	4647.5	4260.4	4244.2	4370.9	5410.0	4612.5
45°	6872.9	6843.2	6345.8	5809.5	5495.3	5132.5	4714.0	4634.9	4731.0	5878.7	5054.3
47.5°	7775.4	7707.2	7078.5	6338.5	5983.9	5659.6	5246.5	5108.2	5161.2	6410.4	5625.5
50°	8088.9	8037.7	7516.8	6778.6	6446.3	6302.6	5902.1	5706.3	5720.6	7044.4	6294.5
52.5°	8021.6	8014.3	7666.8	7068.7	6879.1	6978.0	6830.7	6565.7	6425.7	7748.5	7016.6
55°	7862.6	7877.8	7752.1	7406.4	7374.0	7630.0	8044.0	7848.2	7412.6	8458.9	7762.9
57.5°	7310.2	7349.8	7626.4	7831.1	8170.6	8551.4	9021.1	8965.3	8475.0	9226.7	8650.2
60°	5889.5	5981.1	6722.9	7748.5	8990.5	10181.3	10391.5	10262.2	9570.7	10179.6	9822.2
62.5°	4126.6	4221.8	5103.7	6708.5	8855.8	12022.4	12841.4	12283.7	11144.1	11583.3	11339.0
65°	2209.3	2255.0	2928.6	4654.6	7476.4	12402.3	16422.0	15573.4	13635.3	13313.8	12636.7
67.5°	1218.6	1243.8	1501.6	2350.2	4788.5	10921.3	18703.1	19344.3	16748.9	14466.1	12400.5
69°	1101.9	1125.2	1294.1	1779.9	3204.3	9030.1	18480.4	20338.5	18114.0	14352.0	11527.5
70°	1077.7	1099.3	1251.0	1640.8	2593.6	7443.2	17734.1	20084.3	18439.1	13943.3	10766.0
72.5°	970.0	993.3	1140.6	1473.8	2216.4	3710.9	14047.6	16981.5	16740.8	12089.7	8166.1
75°	904.4	925.9	1175.6	1443.2	2122.1	2348.5	9260.9	12515.4	12306.2	8457.0	4403.2
77.5°	387.1	385.2	545.1	1221.4	2153.5	2273.9	4976.1	7818.5	7133.3	3614.7	1264.5
80°	258.6	254.2	258.6	359.3	1974.8	2286.5	2607.1	3968.5	2997.8	921.4	623.3
82.5°	222.7	219.1	227.2	219.1	694.2	2609.8	2216.4	2110.4	1425.3	523.5	308.9
85°	150.0	143.7	195.8	196.7	327.8	2318.8	2496.6	1782.7	1153.1	310.8	152.6
87.5°	71.8	70.1	114.1	139.2	192.2	942.0	2801.0	1826.7	1163.0	159.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4737.3	4737.3	4737.3	4737.3	4737.3	4737.3	4737.3	4737.3	4737.3	4737.3	4737.3
2.5°	4691.5	4654.6	4618.7	4575.7	4530.8	4480.4	4455.3	4430.2	4423.9	4416.7	4391.5
5°	4562.2	4510.1	4420.3	4321.5	4217.3	4115.8	4038.6	3990.1	3953.3	3934.5	3901.2
7.5°	4395.1	4318.8	4161.7	3991.0	3815.9	3656.0	3517.7	3430.6	3348.0	3309.3	3265.4
10°	4236.1	4122.1	3877.8	3626.4	3374.9	3133.4	2906.1	2745.4	2602.6	2522.7	2466.1
12.5°	4099.7	3943.4	3604.9	3264.4	2919.6	2575.7	2235.2	1967.6	1744.0	1626.4	1566.2
15°	3966.8	3778.2	3345.3	2913.4	2470.5	2002.7	1555.5	1251.9	1066.9	993.3	968.1
17.5°	3846.4	3604.9	3084.8	2559.5	2007.1	1441.4	1045.4	878.3	807.3	783.1	775.0
20°	3716.2	3429.7	2814.5	2189.5	1524.0	1007.6	816.3	742.7	713.9	706.8	703.2
22.5°	3590.5	3257.3	2555.9	1793.4	1094.8	777.7	701.4	670.9	666.4	672.7	672.7
25°	3483.6	3102.8	2276.6	1379.4	803.7	654.7	627.8	620.5	637.6	660.9	665.4
27.5°	3403.7	2976.2	1979.3	1018.4	640.4	569.4	568.5	580.1	622.4	667.3	676.3
30°	3348.9	2855.9	1661.4	734.6	537.0	501.1	515.5	540.6	602.6	666.4	683.4
32.5°	3321.0	2767.0	1330.0	568.5	459.8	440.1	464.3	494.8	555.9	615.2	637.6
35°	3342.6	2701.4	1017.5	474.1	405.9	390.7	415.8	445.4	481.4	506.5	523.5
37.5°	3423.4	2675.3	767.8	424.8	369.1	354.8	374.5	391.6	405.9	413.1	421.1
40°	3597.6	2703.1	615.2	399.7	348.4	330.5	338.6	344.8	353.8	361.0	364.6
42.5°	3854.5	2786.7	551.4	389.7	337.7	311.6	309.9	312.5	324.2	337.7	340.3
45°	4213.7	2934.0	547.0	396.1	332.3	296.3	288.3	291.8	309.9	330.5	334.1
47.5°	4672.6	3158.5	582.9	414.9	336.8	288.3	274.8	279.3	301.8	329.6	334.1
50°	5228.5	3471.9	643.0	442.7	356.5	290.1	270.4	273.0	296.3	326.9	331.4
52.5°	5885.0	3916.5	708.6	469.7	377.2	301.8	273.9	267.6	289.2	316.1	321.5
55°	6615.1	4486.8	775.9	494.0	388.0	316.1	281.1	260.4	275.7	298.2	302.7
57.5°	7511.4	5284.3	892.6	517.3	395.2	326.0	288.3	253.3	258.6	274.8	278.4
60°	8724.7	6412.2	1098.3	555.9	411.3	329.6	287.3	246.9	241.6	250.5	252.4
62.5°	10178.7	7637.1	1269.9	604.4	438.2	332.3	282.0	242.4	227.2	227.2	229.0
65°	11041.7	7964.9	1174.7	644.8	460.7	329.6	275.7	237.9	216.5	206.5	207.5
67.5°	10309.8	7005.0	1006.7	652.8	459.8	317.0	265.9	229.9	205.6	190.4	189.5
69°	9392.8	6044.0	931.3	631.4	438.2	300.8	253.3	221.0	197.5	181.4	180.6
70°	8653.8	5457.5	881.9	607.9	414.9	289.2	243.4	212.9	191.3	176.0	174.2
72.5°	6291.9	3576.1	753.5	522.6	342.2	242.4	210.1	186.8	170.6	161.6	159.9
75°	3144.1	1705.5	611.6	423.9	262.3	194.0	172.5	156.3	148.2	146.4	145.5
77.5°	1032.8	781.3	437.3	316.1	194.9	151.8	139.2	127.6	125.7	131.1	129.3
80°	567.5	454.4	277.5	209.3	132.9	111.4	109.6	103.3	106.0	115.0	113.1
82.5°	289.2	236.2	171.5	125.7	89.8	79.9	87.2	83.5	87.2	95.2	94.3
85°	142.8	129.3	108.6	76.3	59.2	51.1	62.0	64.7	66.5	72.7	72.7
87.5°	82.7	76.3	57.5	35.9	29.7	26.9	35.9	35.0	41.3	44.9	44.0
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)