

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: P192974

Luminaire Tested: **GAN-AF-06-LED-U-SL4-7030-600-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192974
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24294)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-06-LED-U-SL4-7030-600-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21556.8 lumens
Efficiency: N/A
Efficacy: 111.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G4

Input Watts (W): 193
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

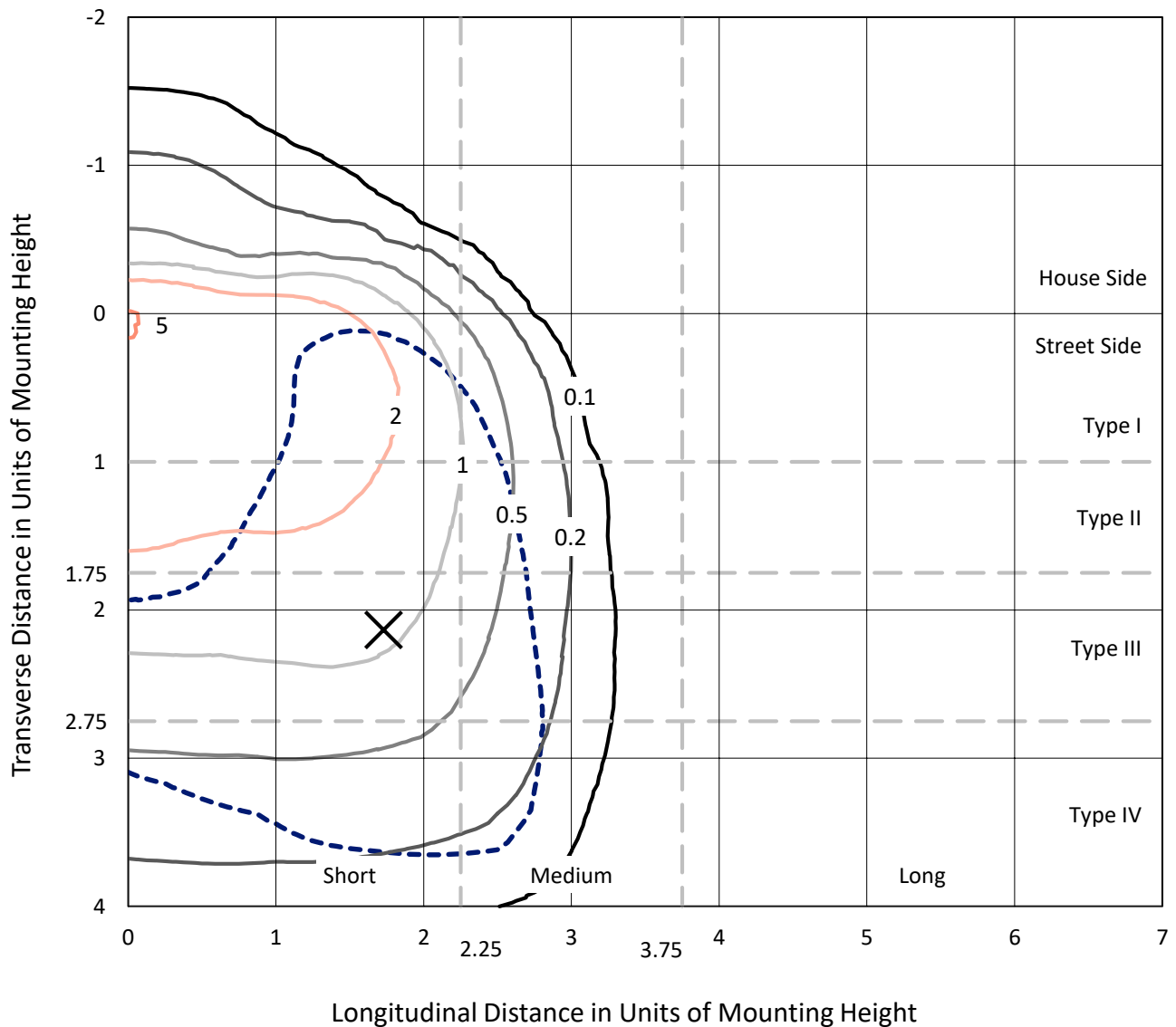


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

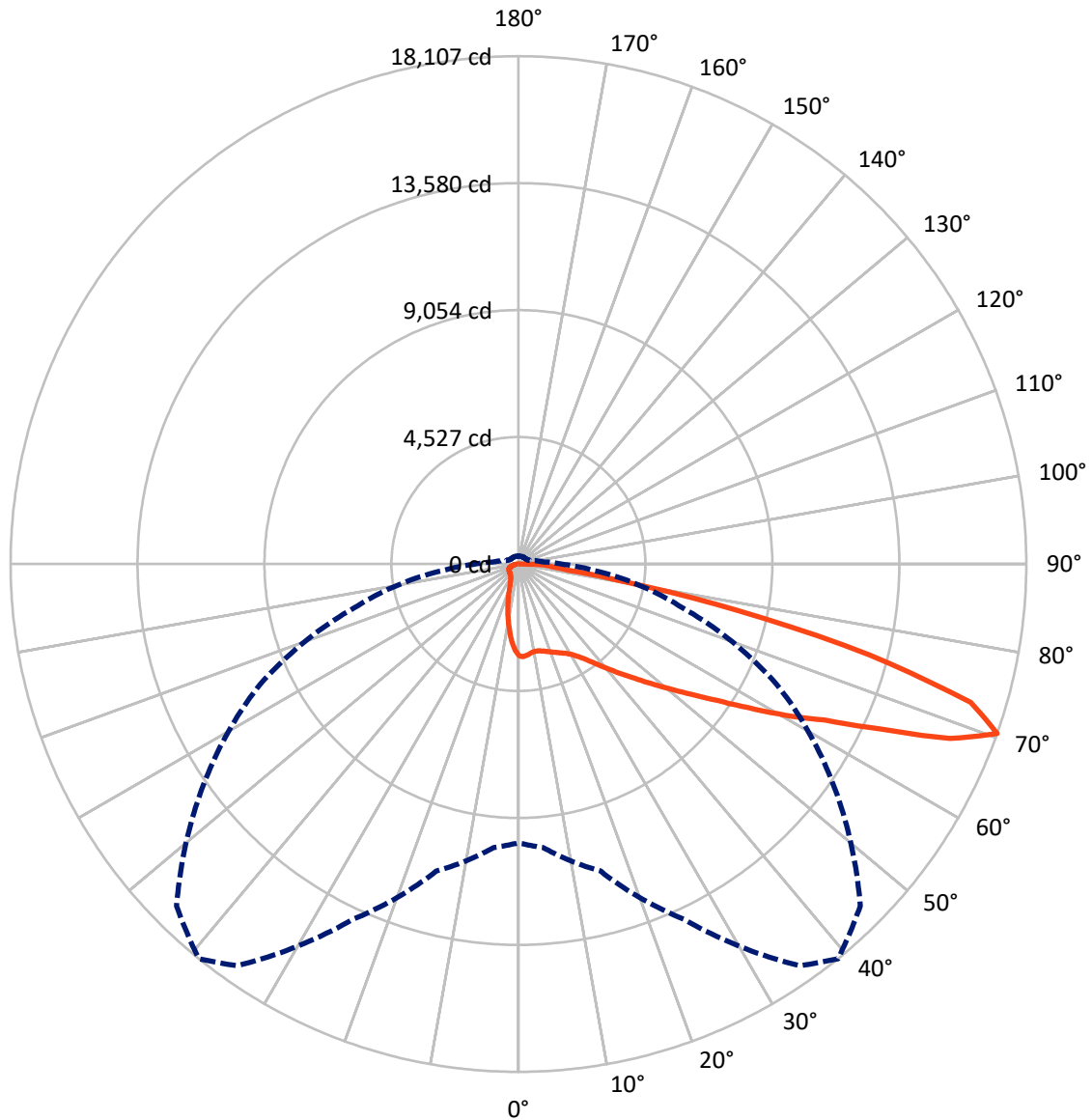


Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2451.8	0.0	2451.8
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	19105.1	0.0	19105.1
	% Fixture	88.6	0.0	88.6
Total	Lumens	21556.8	0.0	21556.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	280.9	1.3
10°-20°	702.0	3.3
20°-30°	1093.1	5.1
30°-40°	1702.8	7.9
40°-50°	2858.8	13.3
50°-60°	4541.4	21.1
60°-70°	6057.7	28.1
70°-80°	3658.1	17.0
80°-90°	662.1	3.1
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°	21556.8	100.0
0°-180°	21556.8	100.0



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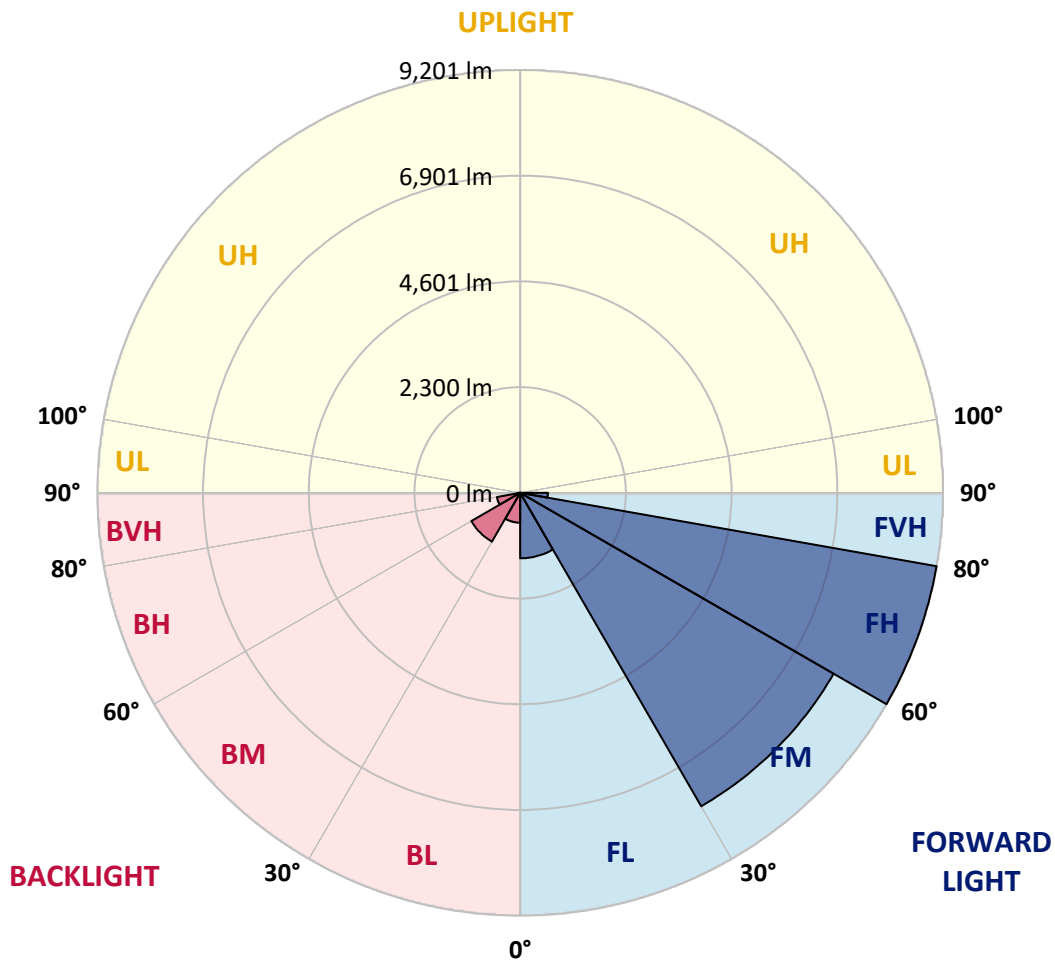
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1425.6	6.6			
FM	(30°-60°)	7876.0	36.5			
FH	(60°-80°)	9201.1	42.7			G4/12000
FVH	(80°-90°)	602.4	2.8			G4/750
BL	(0°-30°)	650.4	3.0	B2/1000		
BM	(30°-60°)	1226.9	5.7	B2/2500		
BH	(60°-80°)	514.7	2.4	B2/1000		G2/1000
BVH	(80°-90°)	59.7	0.3			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°	3272.7	3272.7	3272.7	3272.7	3272.7	3272.7	3272.7	3272.7	3272.7	3272.7	3272.7
2.5°	3336.2	3335.1	3326.4	3319.9	3314.3	3312.0	3316.4	3300.0	3285.9	3268.3	3249.7
5°	3311.0	3309.9	3295.7	3282.4	3269.4	3265.0	3263.9	3234.3	3216.8	3190.5	3155.4
7.5°	3283.7	3278.1	3259.5	3237.6	3214.6	3203.6	3192.7	3154.4	3134.5	3108.3	3067.7
10°	3255.2	3248.6	3231.1	3209.1	3187.2	3170.7	3152.1	3114.9	3094.0	3074.3	3027.1
12.5°	3225.6	3220.1	3215.7	3205.7	3190.5	3176.1	3162.0	3130.2	3108.3	3085.3	3030.5
15°	3221.2	3219.0	3228.8	3235.3	3226.7	3217.9	3202.5	3175.1	3152.1	3129.0	3057.8
17.5°	3256.3	3255.2	3280.3	3297.9	3293.5	3278.1	3257.3	3226.7	3208.0	3188.3	3099.4
20°	3333.0	3338.4	3369.1	3392.2	3370.2	3348.2	3314.3	3271.5	3261.7	3252.9	3142.2
22.5°	3477.6	3483.0	3505.0	3513.8	3456.8	3425.1	3377.9	3323.1	3316.4	3323.1	3193.7
25°	3703.4	3697.9	3694.6	3661.8	3557.6	3508.4	3448.0	3391.1	3394.3	3423.9	3266.1
27.5°	4002.6	3973.0	3927.0	3828.3	3662.8	3608.1	3534.6	3482.0	3502.9	3559.7	3374.6
30°	4312.8	4279.9	4173.6	4012.4	3800.9	3740.7	3658.4	3599.2	3654.0	3744.0	3519.2
32.5°	4600.0	4595.6	4439.9	4232.8	3991.7	3939.1	3856.9	3789.9	3878.7	4015.8	3736.2
35°	4913.4	4923.2	4736.9	4488.2	4249.2	4194.4	4135.3	4084.7	4203.2	4391.6	4050.8
37.5°	5248.7	5268.5	5048.3	4767.6	4542.9	4519.9	4484.9	4462.9	4645.9	4906.9	4490.3
40°	5697.0	5677.3	5371.5	5083.3	4903.5	4902.5	4891.4	4917.8	5222.5	5579.8	5054.8
42.5°	6177.1	6118.9	5714.6	5421.9	5299.2	5336.4	5358.4	5465.8	5916.2	6397.3	5743.1
45°	6694.5	6564.0	6070.8	5780.4	5738.7	5817.6	5892.2	6125.5	6732.8	7327.9	6497.1
47.5°	7107.6	6981.5	6438.9	6156.2	6247.2	6366.6	6510.2	6879.6	7646.8	8289.1	7241.2
50°	7433.1	7350.9	6810.5	6594.7	6807.3	6991.4	7226.0	7733.4	8598.1	9225.1	7930.7
52.5°	7748.7	7687.4	7185.4	7044.1	7464.9	7719.1	8038.1	8649.6	9573.7	10145.7	8510.4
55°	8033.8	7989.9	7588.7	7604.1	8238.7	8569.6	8970.7	9693.1	10636.7	10966.6	9001.5
57.5°	8354.8	8298.9	8049.0	8306.7	9232.7	9662.4	10184.0	10865.8	11634.0	11696.5	9375.2
60°	8678.1	8630.0	8559.8	9117.6	10495.3	10946.9	11441.2	12002.3	12645.6	12263.1	9353.2
62.5°	8958.7	8964.1	9088.0	9969.3	11731.6	12254.4	12857.2	13411.8	13560.8	12361.8	8661.7
65°	9434.4	9521.0	9890.3	11174.8	13472.1	14171.4	14911.1	14822.3	13813.9	11440.1	7178.8
67.5°	10000.0	10152.3	10900.8	12781.5	15671.7	16600.1	16886.1	15141.2	12800.3	9299.6	5117.2
70°	9942.9	10152.3	11337.1	13979.5	17484.5	18107.1	17239.0	13703.3	10164.3	6075.2	2718.1
72.5°	8829.4	9128.6	10448.3	13430.3	16913.6	16858.7	14965.9	10215.8	6039.0	2439.6	1062.0
75°	6729.5	7031.9	8167.4	10610.3	13368.0	12907.7	10619.1	5643.3	2291.7	968.9	669.6
77.5°	3871.0	4105.6	4982.4	6506.9	8480.9	8008.4	5910.7	2509.8	1115.7	675.1	522.8
80°	2161.3	2291.7	2824.4	3301.2	4156.0	3809.7	2644.6	1559.5	833.0	489.9	403.2
82.5°	1708.7	1824.8	2284.1	2082.4	1898.3	1751.4	1519.0	1388.6	665.3	309.1	241.1
85°	1492.8	1603.5	1933.4	1639.7	1296.6	1189.2	1234.1	1366.8	517.4	186.3	206.1
87.5°	1383.1	1531.2	1722.9	1263.7	1009.4	894.3	1138.7	1498.3	166.6	116.2	83.2
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°	3272.7	3272.7	3272.7	3272.7	3272.7	3272.7	3272.7	3272.7	3272.7	3272.7	3272.7
2.5°	3233.2	3215.7	3187.2	3162.0	3122.5	3101.7	3078.7	3062.2	3049.1	3038.2	3055.7
5°	3133.4	3100.6	3040.3	2975.6	2898.9	2838.7	2788.2	2741.1	2708.2	2686.2	2701.7
7.5°	3039.3	2985.5	2891.2	2774.0	2642.4	2530.7	2438.5	2357.5	2301.6	2265.5	2279.7
10°	2985.5	2918.7	2772.9	2588.8	2394.8	2220.4	2075.8	1951.0	1864.3	1815.1	1822.7
12.5°	2972.4	2885.7	2684.1	2430.9	2165.7	1923.5	1719.6	1546.4	1424.8	1361.3	1363.4
15°	2982.2	2871.6	2600.8	2279.7	1944.3	1638.6	1384.2	1173.8	1032.4	960.1	959.0
17.5°	2998.6	2860.5	2513.2	2116.4	1719.6	1364.5	1080.7	874.6	749.6	691.6	687.2
20°	3016.2	2843.0	2414.5	1939.9	1486.2	1110.3	846.1	685.0	606.1	574.2	572.1
22.5°	3041.4	2827.7	2312.6	1753.6	1257.1	904.2	696.0	587.5	545.9	529.4	527.1
25°	3081.9	2820.0	2204.1	1559.5	1051.1	756.3	606.1	539.2	515.1	504.1	503.0
27.5°	3150.0	2831.0	2102.1	1371.1	883.4	656.5	555.7	515.1	497.5	487.8	486.6
30°	3237.6	2865.0	1994.7	1192.4	752.9	588.6	525.0	498.7	484.4	474.6	474.6
32.5°	3383.3	2921.9	1881.9	1038.0	659.8	541.4	501.9	484.4	472.3	464.7	463.6
35°	3598.1	3029.3	1776.7	909.7	592.9	507.4	482.3	469.0	460.3	455.9	455.9
37.5°	3910.5	3199.2	1683.4	817.6	552.5	484.4	463.6	453.8	448.3	448.3	448.3
40°	4330.3	3433.8	1607.9	756.3	529.4	467.9	449.4	441.7	438.3	439.6	439.6
42.5°	4848.7	3738.5	1557.4	713.5	518.4	458.2	439.6	432.8	429.6	428.6	429.6
45°	5439.5	4084.7	1551.9	681.7	507.4	451.6	432.8	426.3	419.8	415.4	415.4
47.5°	6013.7	4436.6	1596.9	670.8	495.4	443.9	427.4	420.8	411.1	401.1	401.1
50°	6521.2	4735.9	1657.1	675.1	491.0	432.8	418.7	415.4	400.0	389.1	388.0
52.5°	6924.6	4966.0	1706.5	688.4	495.4	425.2	407.7	408.8	392.3	380.3	379.2
55°	7247.8	5117.2	1693.3	701.5	505.3	420.8	397.8	400.0	386.9	374.9	374.9
57.5°	7389.2	5061.3	1547.5	690.5	513.0	422.0	390.2	398.9	388.0	377.1	377.1
60°	7085.7	4564.9	1274.6	642.2	503.0	418.7	386.9	403.2	402.2	391.2	390.2
62.5°	6167.2	3676.0	988.6	571.0	469.0	402.2	378.1	402.2	414.3	411.1	409.9
65°	4753.4	2618.4	755.2	494.3	423.1	374.9	355.1	377.1	393.5	397.8	396.7
67.5°	3085.3	1604.6	582.1	422.0	371.6	343.1	325.5	335.4	338.7	338.7	336.5
70°	1516.8	863.7	463.6	355.1	318.9	309.1	299.3	293.7	288.2	283.8	283.8
72.5°	748.5	564.5	381.5	300.4	275.2	270.8	268.6	261.9	257.6	252.1	249.8
75°	553.5	459.2	324.4	253.2	236.8	232.4	236.8	231.3	230.2	225.7	223.6
77.5°	454.8	391.2	279.4	217.0	202.7	195.1	201.7	202.7	203.9	197.3	195.1
80°	369.4	330.9	233.5	179.7	166.6	161.1	165.5	174.3	176.5	166.6	162.2
82.5°	266.4	270.8	188.5	140.3	129.4	125.0	133.8	144.7	146.9	132.6	129.4
85°	223.6	225.7	144.7	99.8	88.8	82.2	96.4	107.4	115.0	100.8	97.6
87.5°	93.2	132.6	83.2	55.9	49.2	42.7	51.5	57.1	69.1	63.6	62.5
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)