

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: P319518

Luminaire Tested: **GAN-SA4B-830-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319518
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4B-830-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17945 lumens
Efficiency: N/A
Efficacy: 104.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

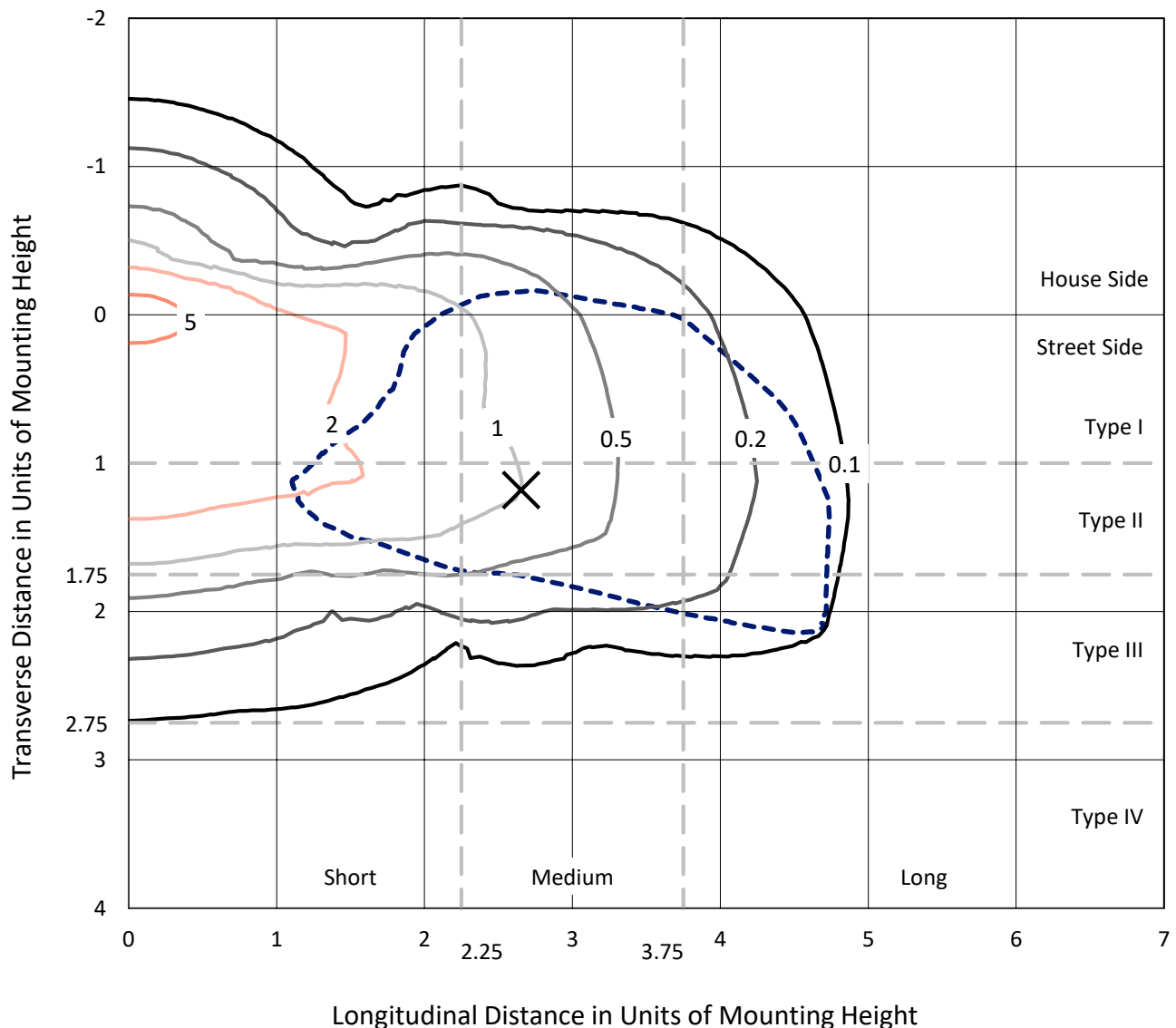
Input Watts (W): 171
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

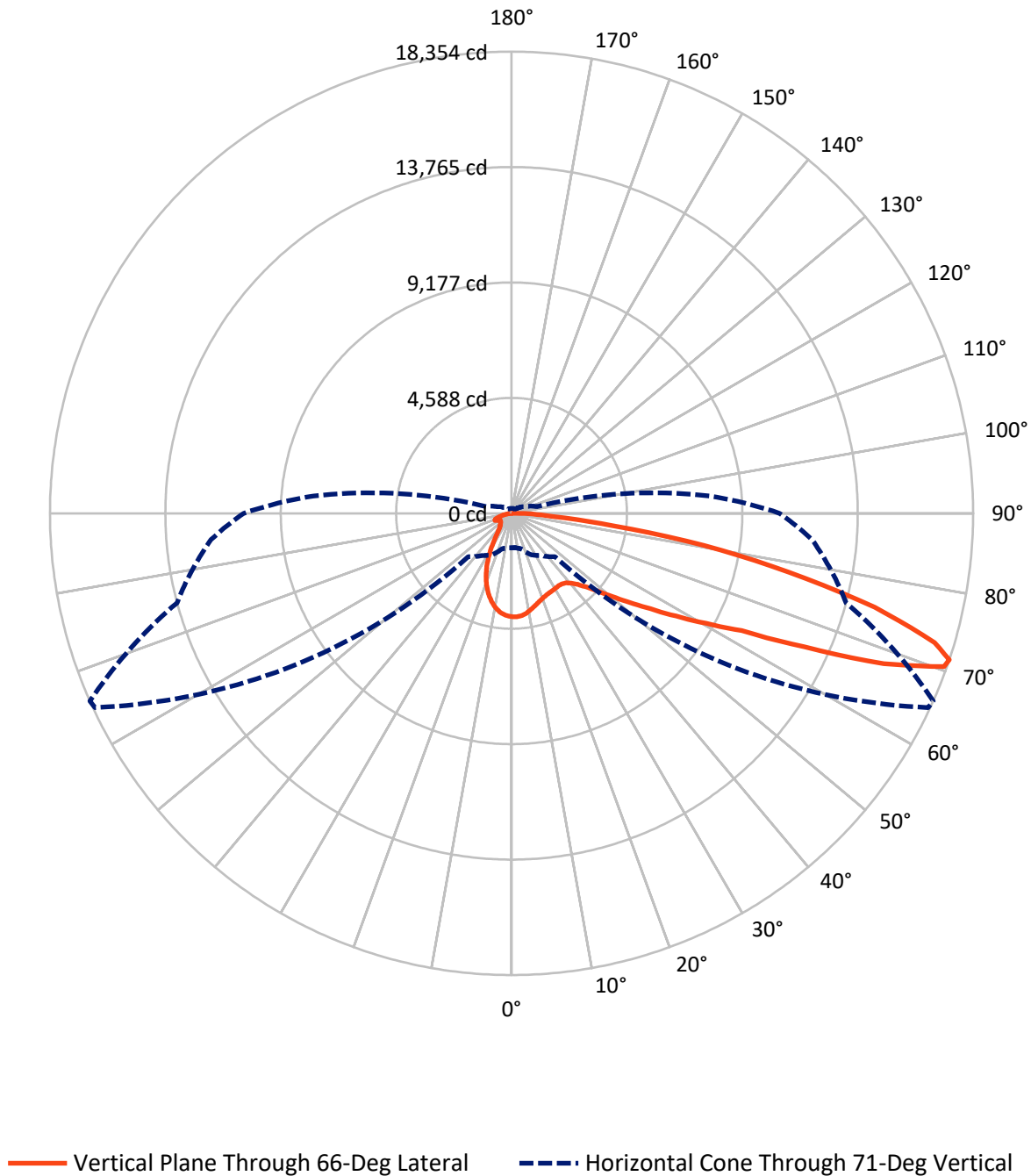
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3325.7	0.0	3325.7
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	14619.3	0.0	14619.3
	% Fixture	81.5	0.0	81.5
Total	Lumens	17945.0	0.0	17945.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	361.9	2.0
10°-20°	867.9	4.8
20°-30°	1165.8	6.5
30°-40°	1533.6	8.5
40°-50°	2230.9	12.4
50°-60°	3485.0	19.4
60°-70°	4365.5	24.3
70°-80°	3329.9	18.6
80°-90°	604.7	3.4
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°	17945.0	100.0
0°-180°	17945.0	100.0

Coefficient of Utilization



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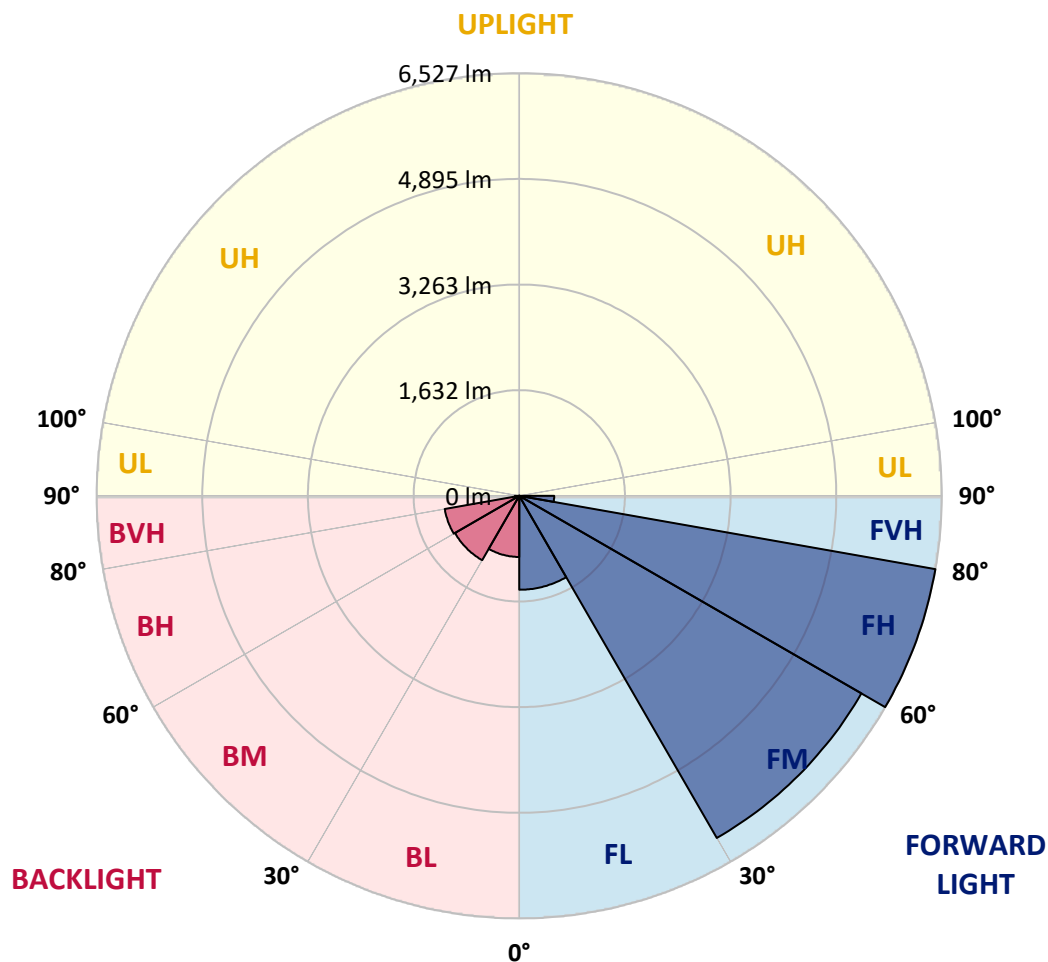
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1451.1	8.1			
FM	(30°-60°)	6102.2	34.0			
FH	(60°-80°)	6526.8	36.4			G3/7500
FVH	(80°-90°)	539.2	3.0			G4/750
BL	(0°-30°)	944.4	5.3	B2/1000		
BM	(30°-60°)	1147.3	6.4	B2/2500		
BH	(60°-80°)	1168.6	6.5	B3/2500		G3/2500
BVH	(80°-90°)	65.5	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	4110.9	4110.9	4110.9	4110.9	4110.9	4110.9	4110.9	4110.9	4110.9	4110.9	4110.9
2.5°	4034.6	4028.4	4047.0	4066.2	4073.7	4086.1	4104.7	4115.2	4114.6	4116.4	4110.2
5°	3767.0	3758.9	3796.1	3826.5	3884.7	3950.4	4030.3	4087.3	4088.5	4120.8	4129.4
7.5°	3513.6	3508.0	3550.8	3599.7	3667.2	3767.6	3897.1	4019.8	4027.2	4114.6	4144.9
10°	3310.4	3309.1	3350.6	3403.9	3482.6	3594.7	3743.4	3923.1	3934.3	4084.8	4147.4
12.5°	3151.8	3154.2	3190.2	3250.9	3333.9	3451.0	3612.1	3814.7	3832.7	4037.7	4133.2
15°	3034.7	3044.6	3073.7	3135.0	3216.8	3335.8	3501.2	3714.3	3741.6	3985.1	4125.1
17.5°	2967.7	2978.9	2999.3	3050.1	3127.0	3241.6	3398.3	3631.9	3656.7	3944.8	4125.7
20°	2947.9	2957.2	2969.0	3000.0	3065.0	3169.1	3317.2	3557.6	3584.2	3912.6	4131.9
22.5°	2987.0	2993.8	2995.0	2992.5	3032.2	3117.1	3258.3	3503.1	3531.6	3891.5	4136.3
25°	3070.6	3079.9	3073.1	3050.1	3037.1	3089.2	3228.0	3467.1	3495.6	3876.0	4127.6
27.5°	3196.4	3197.6	3192.0	3162.3	3101.0	3092.3	3218.7	3446.1	3473.3	3858.1	4109.6
30°	3367.4	3375.4	3365.5	3325.2	3224.9	3141.8	3229.8	3425.6	3450.4	3835.1	4080.5
32.5°	3567.5	3587.3	3586.7	3544.6	3400.8	3252.7	3275.7	3413.2	3432.4	3811.0	4045.2
35°	3775.0	3802.3	3853.1	3835.1	3657.3	3428.1	3363.6	3433.0	3446.1	3807.9	4020.4
37.5°	3990.7	4017.9	4122.6	4171.0	3962.8	3679.0	3502.4	3503.1	3509.2	3845.7	4018.5
40°	4216.2	4245.3	4402.7	4528.4	4358.7	3996.9	3726.1	3649.3	3642.5	3938.6	4055.1
42.5°	4532.2	4558.2	4747.2	4907.6	4798.0	4403.9	4035.3	3874.8	3860.5	4120.8	4172.2
45°	4931.8	4954.1	5154.8	5326.4	5270.1	4868.6	4423.7	4185.2	4182.7	4424.4	4409.5
47.5°	5407.0	5424.3	5604.6	5770.7	5791.1	5403.3	4912.0	4664.1	4623.9	4840.7	4776.9
50°	5902.0	5921.2	6043.9	6222.3	6374.1	6118.9	5540.2	5250.9	5197.0	5390.3	5297.3
52.5°	6229.8	6255.2	6361.8	6587.9	7029.7	6903.3	6283.1	5962.1	5880.3	6056.3	5985.1
55°	6083.6	6140.6	6303.5	6666.0	7553.8	8101.5	7199.4	6791.7	6699.4	6845.6	6803.5
57.5°	5418.8	5496.8	5719.3	6278.7	7627.5	9157.3	8584.8	7768.8	7703.7	7661.6	7680.8
60°	4203.8	4278.8	4554.5	5283.7	7113.9	9928.0	10669.6	8973.2	8879.1	8480.7	8498.0
62.5°	2975.2	2937.4	3126.4	3659.8	5780.6	10018.5	13042.0	10584.1	10274.3	9345.6	9269.4
65°	2268.9	2260.2	2345.1	2514.8	3501.2	8936.1	14455.2	13291.7	12807.8	10362.9	10183.3
67.5°	1864.3	1848.8	1932.4	2179.6	2254.6	5765.1	14486.2	16432.9	15957.7	11629.3	11240.3
70°	1532.8	1515.5	1593.5	1912.6	2083.6	2923.8	12191.9	18272.4	18247.0	13232.8	12038.3
71°	1374.2	1361.8	1455.4	1809.8	2047.1	2436.8	10526.5	18277.3	18353.5	13775.5	11991.2
72.5°	1118.9	1123.3	1222.4	1610.9	2019.8	2151.8	7736.6	17425.4	17586.5	14292.9	11563.0
75°	743.5	747.2	877.3	1239.1	1958.5	2105.3	4252.1	14621.9	14918.0	13983.1	10551.3
77.5°	499.4	498.1	586.7	850.1	1706.3	2105.3	2493.2	10936.0	11261.3	11126.3	8134.3
80°	343.9	341.4	404.0	586.7	1291.8	2130.7	1927.5	7664.1	7762.6	6008.6	3306.0
82.5°	210.7	212.5	263.9	414.5	879.2	1917.6	1819.7	4179.0	4071.8	1685.2	825.9
85°	120.8	120.2	168.5	280.7	564.4	1618.3	1774.5	1798.6	1649.9	507.4	298.6
87.5°	43.4	46.5	90.5	155.5	323.4	1127.0	1505.6	935.6	843.2	229.2	135.1
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°	4110.9	4110.9	4110.9	4110.9	4110.9	4110.9	4110.9	4110.9	4110.9	4110.9	4110.9
2.5°	4105.9	4109.6	4105.3	4080.5	4059.4	4025.4	4006.1	3979.5	3971.4	3967.7	3977.6
5°	4121.4	4122.6	4086.1	4021.0	3947.9	3861.8	3799.8	3723.6	3687.7	3672.2	3682.1
7.5°	4135.6	4130.1	4050.1	3925.6	3790.5	3640.6	3507.4	3385.3	3314.1	3285.0	3287.4
10°	4137.5	4113.9	3985.7	3793.0	3583.6	3363.6	3159.2	2970.8	2851.9	2774.4	2798.0
12.5°	4118.3	4078.6	3890.9	3621.4	3330.8	3030.9	2754.6	2472.1	2302.3	2223.6	2226.1
15°	4103.4	4031.5	3774.4	3419.4	3029.1	2631.9	2254.6	1922.5	1741.6	1661.1	1623.3
17.5°	4091.0	3980.7	3639.4	3192.0	2672.8	2169.1	1715.6	1419.4	1320.3	1296.8	1286.8
20°	4073.7	3926.8	3488.8	2928.7	2267.0	1651.2	1252.8	1106.6	1107.2	1134.4	1138.2
22.5°	4049.5	3865.5	3328.3	2633.2	1831.5	1202.6	982.0	939.9	982.6	1034.7	1044.0
25°	4013.6	3793.0	3149.9	2306.7	1396.5	924.4	838.9	837.0	889.1	943.6	951.7
27.5°	3962.8	3698.2	2951.6	1956.0	1029.1	785.6	751.5	764.6	803.0	842.6	845.7
30°	3894.6	3587.9	2732.9	1586.1	806.7	699.5	695.8	707.5	731.1	759.0	761.5
32.5°	3819.7	3475.8	2499.3	1228.0	690.8	653.0	656.7	662.3	673.5	684.6	687.1
35°	3751.5	3361.2	2260.2	933.1	635.7	622.7	620.2	619.0	620.2	616.5	617.1
37.5°	3707.5	3266.4	2011.1	742.9	604.1	596.0	588.6	579.3	568.8	562.6	563.8
40°	3691.4	3195.7	1759.0	641.9	578.1	572.5	558.2	538.4	526.0	522.3	522.3
42.5°	3734.8	3159.2	1515.5	591.1	556.4	547.1	523.5	500.6	491.3	490.7	490.1
45°	3867.4	3174.1	1283.8	563.2	536.5	518.6	487.6	468.4	462.2	463.4	462.8
47.5°	4105.3	3267.6	1085.5	544.6	516.7	493.2	458.5	443.0	435.6	435.6	436.2
50°	4509.9	3486.3	927.5	529.1	500.0	469.6	437.4	418.2	408.3	407.7	407.7
52.5°	5099.1	3877.9	829.0	516.1	481.4	448.6	416.4	392.2	380.4	377.9	376.7
55°	5837.6	4439.2	801.7	507.4	456.6	425.6	390.9	366.8	353.8	348.2	347.6
57.5°	6663.5	5122.0	855.6	496.9	431.2	398.4	363.1	340.1	326.5	319.7	319.1
60°	7499.3	5867.3	1075.6	482.0	410.2	368.6	334.6	313.5	299.9	292.4	291.2
62.5°	8336.3	6653.0	1524.8	480.8	395.3	340.1	305.4	287.5	274.5	266.4	264.6
65°	9280.6	7512.9	2035.3	513.6	390.3	314.1	275.7	261.5	250.3	242.9	242.3
67.5°	10364.8	8483.8	1986.3	581.2	407.1	290.6	247.8	236.7	228.6	222.4	221.8
70°	10873.5	8332.0	1234.8	628.9	430.6	267.7	221.2	213.1	206.9	202.6	200.7
71°	10660.3	7911.3	1035.3	623.3	428.1	257.7	210.7	204.5	198.3	194.5	192.7
72.5°	10079.2	7214.9	863.7	579.9	400.2	239.8	197.0	190.8	185.3	180.9	179.7
75°	9044.5	6443.5	691.4	463.4	319.1	202.6	172.9	166.0	161.7	159.2	156.8
77.5°	6648.6	4598.5	534.7	366.2	234.8	165.4	147.5	142.5	138.2	134.4	132.6
80°	2547.1	1781.3	360.0	273.2	172.2	130.7	119.0	116.5	112.1	109.7	109.7
82.5°	685.9	532.2	192.1	165.4	115.2	95.4	91.1	89.8	86.1	81.2	81.8
85°	277.6	234.8	107.8	91.1	70.6	56.4	61.3	62.0	57.6	51.4	52.0
87.5°	122.1	99.8	60.1	40.3	31.0	21.7	27.9	27.9	25.4	21.1	19.2
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)