

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: P319838

Luminaire Tested: **GAN-SA4B-830-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319838
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4B-830-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 800mA 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: 18319 lumens
Efficiency: N/A
Efficacy: 107.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

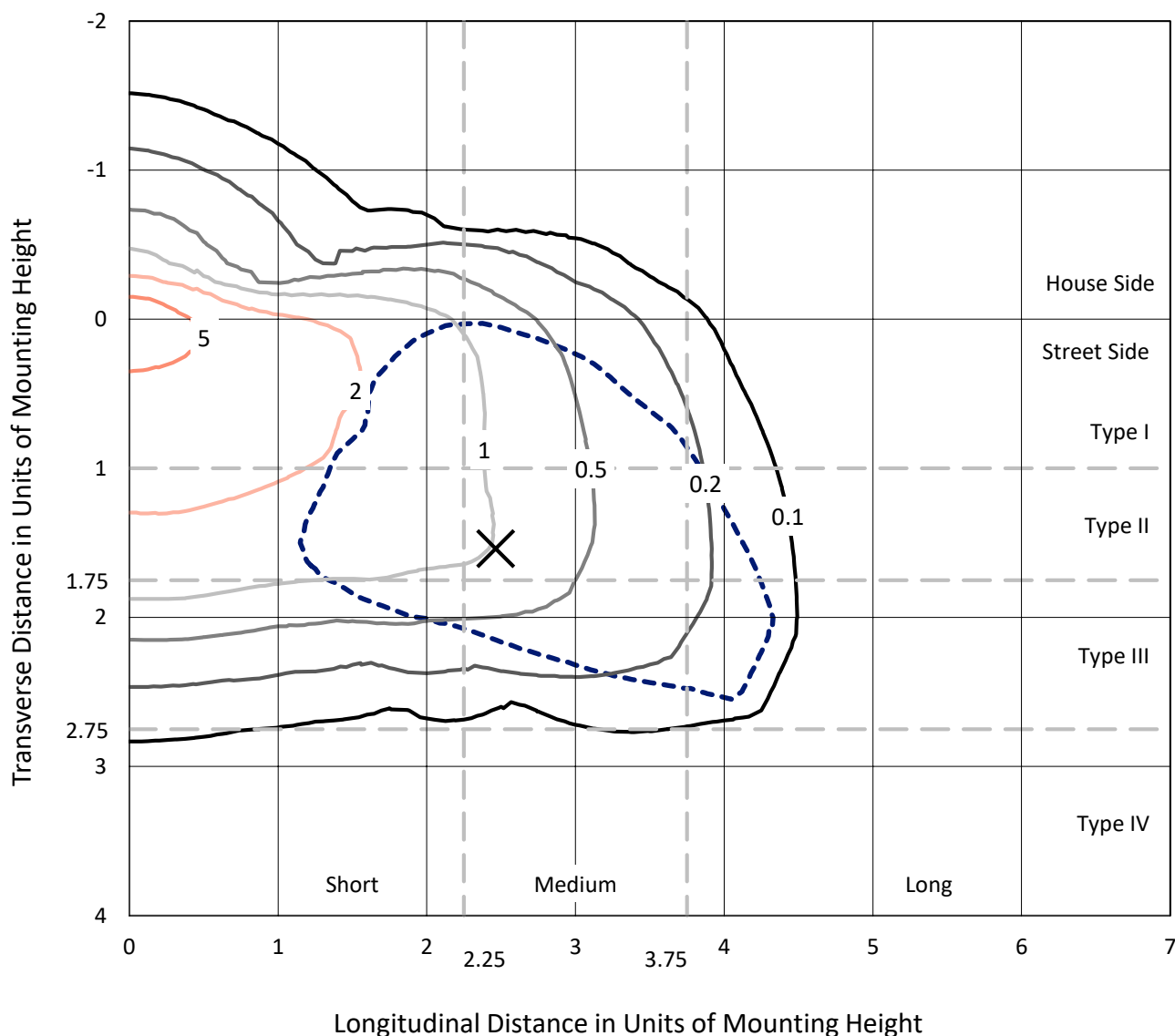
Input Watts (W): 171
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

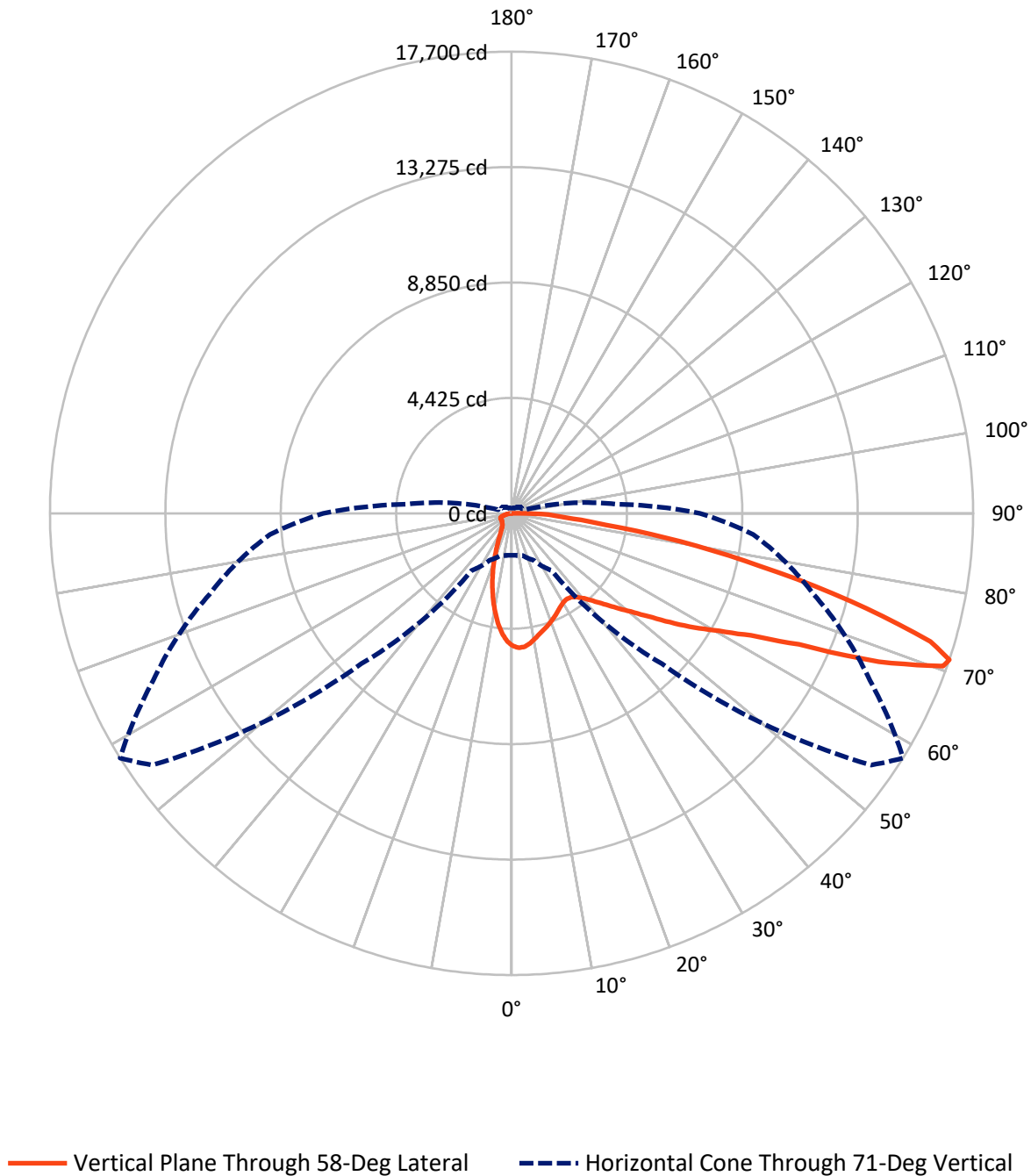
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 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	2738.8	0.0	2738.8
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	15580.2	0.0	15580.2
	% Fixture	85.0	0.0	85.0
Total	Lumens	18319.0	0.0	18319.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	437.9	2.4
10°-20°	973.7	5.3
20°-30°	1237.4	6.8
30°-40°	1576.2	8.6
40°-50°	2235.2	12.2
50°-60°	3459.0	18.9
60°-70°	4709.0	25.7
70°-80°	3141.4	17.1
80°-90°	549.2	3.0
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°	18319.0	100.0
0°-180°	18319.0	100.0

Coefficient of Utilization



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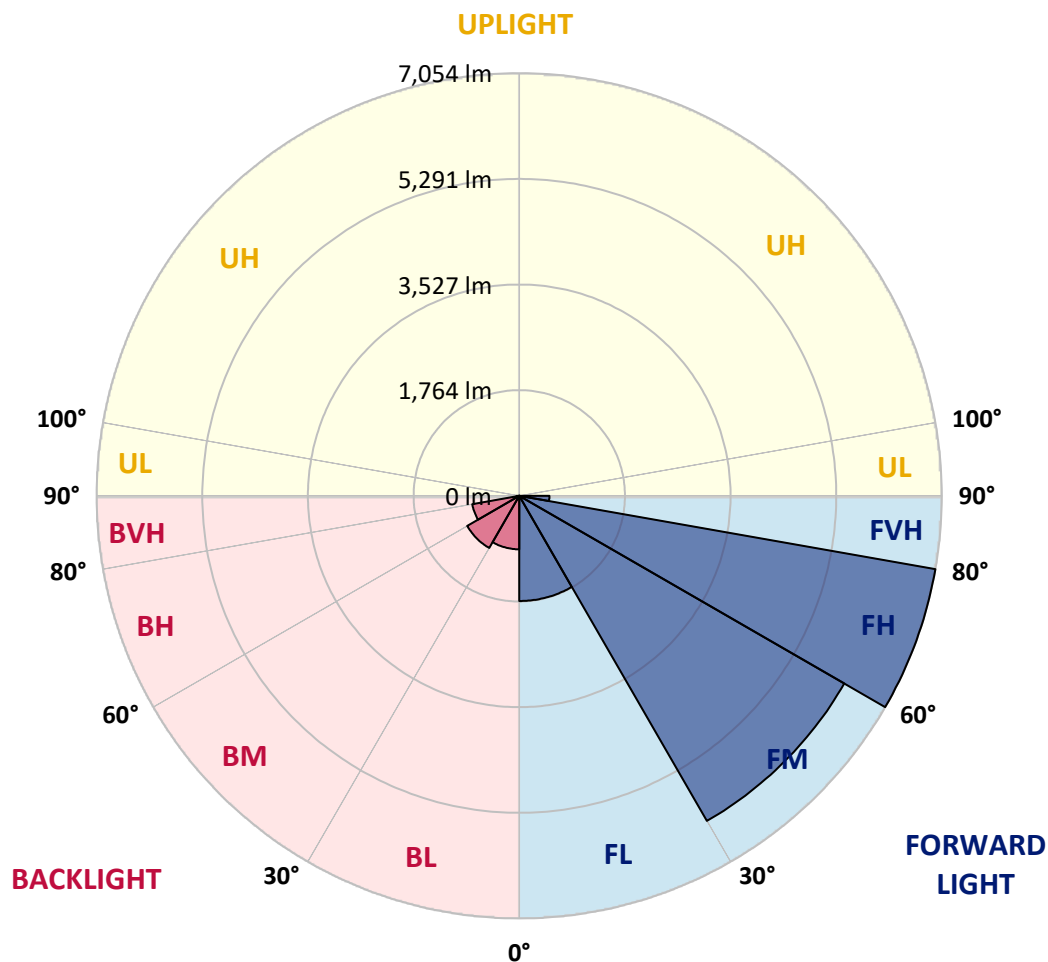
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1756.2	9.6			
FM	(30°-60°)	6266.0	34.2			
FH	(60°-80°)	7054.4	38.5			G3/7500
FVH	(80°-90°)	503.6	2.7			G4/750
BL	(0°-30°)	892.8	4.9	B2/1000		
BM	(30°-60°)	1004.4	5.5	B2/2500		
BH	(60°-80°)	796.0	4.3	B2/1000		G2/1000
BVH	(80°-90°)	45.6	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-G4

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	5075.6	5075.6	5075.6	5075.6	5075.6	5075.6	5075.6	5075.6	5075.6	5075.6	5075.6
2.5°	5210.2	5203.2	5205.8	5200.7	5188.5	5176.4	5158.5	5161.7	5136.8	5099.8	5053.9
5°	5112.0	5109.4	5128.6	5139.4	5148.3	5141.3	5136.2	5142.6	5106.2	5055.2	4975.4
7.5°	4905.8	4877.8	4902.0	4938.4	4972.9	4999.0	5033.5	5037.9	5015.0	4961.4	4856.7
10°	4613.0	4586.2	4621.9	4678.7	4747.6	4810.1	4879.7	4892.4	4896.9	4848.4	4721.4
12.5°	4309.2	4288.8	4324.5	4404.3	4518.5	4614.9	4725.9	4745.0	4784.6	4752.1	4596.4
15°	4037.4	4029.7	4073.1	4151.6	4283.0	4430.5	4590.6	4625.7	4692.7	4681.9	4498.7
17.5°	3802.5	3800.6	3833.8	3916.1	4061.6	4247.9	4456.0	4515.3	4614.9	4627.6	4418.3
20°	3627.7	3623.9	3646.8	3707.5	3857.4	4068.6	4310.5	4392.2	4535.7	4580.4	4335.4
22.5°	3533.9	3533.3	3533.9	3562.6	3685.1	3881.7	4168.8	4268.4	4458.5	4542.8	4243.5
25°	3517.9	3516.0	3502.0	3498.8	3568.4	3725.3	4028.4	4138.2	4385.1	4516.6	4156.1
27.5°	3559.4	3562.0	3543.5	3513.5	3527.5	3622.6	3906.6	4024.0	4326.4	4511.5	4095.4
30°	3645.6	3644.3	3628.3	3597.1	3569.6	3584.3	3819.8	3937.2	4286.9	4533.8	4054.0
32.5°	3740.6	3747.7	3744.5	3727.2	3686.4	3627.7	3793.6	3908.5	4275.4	4587.4	4036.1
35°	3854.9	3862.5	3885.5	3898.9	3851.0	3756.6	3849.8	3949.3	4308.6	4688.3	4064.8
37.5°	3963.3	3983.1	4047.6	4104.4	4063.5	3958.2	3999.1	4069.9	4411.3	4847.1	4142.0
40°	4088.4	4105.6	4210.9	4331.5	4325.2	4216.0	4239.7	4286.9	4592.5	5074.9	4281.8
42.5°	4211.6	4246.0	4398.5	4569.6	4618.7	4522.3	4560.0	4584.9	4847.8	5376.8	4525.5
45°	4375.6	4412.6	4624.4	4830.6	4945.4	4891.2	4951.2	4960.7	5168.8	5787.7	4879.7
47.5°	4623.8	4665.9	4912.9	5129.2	5304.7	5310.4	5409.3	5405.5	5569.5	6258.0	5325.7
50°	5010.5	5071.1	5273.4	5475.7	5688.8	5807.5	5939.6	5921.1	6050.0	6758.9	5839.4
52.5°	5517.2	5545.2	5695.2	5844.5	6109.3	6375.4	6565.0	6548.4	6594.9	7273.9	6422.7
55°	6042.3	6063.4	6125.3	6207.0	6563.0	6997.0	7397.7	7371.5	7253.5	7808.6	6998.9
57.5°	6514.5	6557.3	6600.1	6633.9	7019.9	7646.6	8249.6	8251.5	7968.2	8385.5	7594.2
60°	6587.9	6625.6	6908.3	7175.0	7801.6	8513.1	9161.5	9142.3	8707.8	9011.5	8257.9
62.5°	5823.5	5908.3	6380.5	7090.1	8554.6	10098.2	10324.7	10301.1	9592.2	9783.0	9030.6
65°	4173.3	4269.6	4839.5	5905.8	8189.6	11844.7	12424.2	12106.4	10798.2	10731.9	9935.5
67.5°	2407.6	2430.6	2677.5	3533.9	6235.7	11936.0	15626.9	15182.1	12671.1	11808.4	10378.3
70°	1780.3	1779.7	1838.4	2174.7	3374.4	9741.5	17150.0	17548.9	14642.9	12162.5	9752.4
71°	1610.0	1611.9	1677.6	1979.4	2672.4	8153.9	16826.5	17699.5	15162.3	11987.7	9299.3
72.5°	1377.1	1383.4	1474.7	1775.2	2248.1	5623.1	15432.9	16795.9	15408.6	11556.3	8590.3
75°	1044.6	1059.3	1185.6	1496.4	2054.7	2851.7	11326.6	13412.0	13688.3	10197.1	6383.1
77.5°	745.3	761.9	904.9	1258.4	1953.3	2149.2	7585.3	9783.0	10073.3	6535.0	2879.2
80°	470.9	490.7	598.6	1001.2	1835.2	2040.7	4766.7	6575.8	5492.9	2091.1	732.6
82.5°	276.3	291.6	371.4	654.1	1498.9	1965.4	2804.5	3644.9	2137.7	631.7	333.1
85°	160.2	167.2	231.6	416.7	1088.6	1855.0	2060.5	2037.5	927.8	308.8	157.6
87.5°	74.7	83.0	137.2	217.6	604.3	1344.5	1628.5	1407.0	576.9	144.9	74.0
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°	5075.6	5075.6	5075.6	5075.6	5075.6	5075.6	5075.6	5075.6	5075.6	5075.6	5075.6
2.5°	5031.6	5020.7	4975.4	4935.2	4893.1	4838.2	4777.6	4769.9	4732.9	4739.9	4727.2
5°	4932.0	4904.6	4795.5	4696.5	4579.8	4475.1	4361.5	4309.2	4233.9	4228.8	4209.7
7.5°	4789.7	4738.7	4569.6	4382.0	4194.3	4015.7	3838.9	3722.8	3604.1	3553.7	3549.2
10°	4629.5	4542.8	4293.9	4016.3	3745.8	3484.8	3232.1	3045.1	2876.6	2796.9	2793.7
12.5°	4477.7	4349.4	4008.0	3630.3	3260.1	2921.9	2575.4	2329.8	2118.6	2047.7	2017.7
15°	4348.8	4168.2	3729.8	3246.7	2797.5	2327.9	1933.5	1675.1	1479.8	1412.2	1399.4
17.5°	4223.7	3991.4	3444.6	2859.4	2316.4	1800.1	1405.1	1213.1	1109.0	1081.6	1081.0
20°	4099.3	3809.6	3146.6	2463.1	1851.2	1346.4	1080.3	994.2	959.1	955.9	950.8
22.5°	3958.2	3616.9	2833.2	2065.6	1444.7	1058.6	918.3	883.8	879.3	890.8	890.8
25°	3826.2	3425.4	2515.5	1676.3	1123.7	883.2	820.0	813.0	825.1	845.5	847.4
27.5°	3703.0	3241.0	2205.3	1330.5	900.4	777.9	751.7	760.0	781.7	805.3	805.9
30°	3601.5	3066.8	1904.1	1048.4	760.6	699.4	694.9	711.5	735.1	753.6	758.1
32.5°	3523.0	2918.1	1613.2	843.0	669.4	640.7	644.5	658.5	673.2	683.4	690.4
35°	3486.7	2790.5	1344.5	710.9	611.3	595.4	600.5	608.1	614.5	622.2	627.9
37.5°	3493.1	2691.6	1104.6	628.5	572.4	564.1	564.1	564.1	564.1	567.9	568.6
40°	3552.4	2634.8	909.3	576.2	546.2	537.3	530.3	523.9	518.8	521.3	520.1
42.5°	3704.3	2629.7	766.4	543.0	525.2	510.5	496.5	487.5	481.1	483.7	485.0
45°	3962.1	2693.5	670.0	519.4	505.4	483.1	465.2	455.6	451.1	459.4	460.7
47.5°	4295.8	2832.6	611.3	502.2	486.9	457.5	438.4	429.5	430.7	442.9	446.0
50°	4725.9	3058.5	583.2	491.4	474.1	435.8	416.1	408.4	412.2	429.5	433.3
52.5°	5198.1	3383.9	586.4	488.2	465.8	419.9	398.8	389.9	396.3	412.2	415.4
55°	5743.1	3775.1	639.4	492.6	453.7	409.7	384.8	369.5	374.6	389.3	391.8
57.5°	6348.6	4223.1	746.0	491.4	438.4	400.1	370.1	347.1	351.0	359.9	362.5
60°	6979.1	4764.2	911.2	495.2	431.4	388.6	350.3	321.6	320.3	328.0	329.3
62.5°	7735.9	5390.2	1100.1	497.7	435.8	373.9	324.2	296.1	292.3	294.2	295.4
65°	8515.7	5843.2	1029.3	487.5	449.9	361.8	301.2	271.2	264.2	262.9	263.5
67.5°	8539.9	5357.6	721.7	467.1	455.6	355.4	284.0	250.1	238.7	234.2	233.6
70°	7658.7	4352.6	562.2	445.4	432.6	345.2	268.0	232.9	215.7	208.7	208.0
71°	7228.6	4006.7	532.8	434.6	415.4	335.0	261.0	225.3	207.4	199.7	198.5
72.5°	6554.1	3592.0	497.1	417.3	382.2	308.8	247.6	214.4	195.9	187.0	185.1
75°	4703.6	2348.9	426.9	372.0	316.5	246.3	217.0	192.7	176.8	165.9	164.6
77.5°	1812.3	934.8	322.9	309.5	242.5	192.7	178.7	166.5	155.1	144.2	143.6
80°	560.3	418.0	235.5	232.9	175.5	143.6	139.1	135.9	131.5	120.0	117.4
82.5°	299.3	239.9	162.1	150.6	114.9	95.7	100.8	102.1	102.7	90.6	89.3
85°	142.9	127.0	91.3	85.5	67.0	53.6	61.9	67.0	67.6	55.5	51.7
87.5°	68.3	66.4	42.8	32.5	24.9	17.9	21.7	26.8	29.4	21.1	18.5
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)