

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: P193787

Luminaire Tested: **GAN-AF-09-LED-U-SL4-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193787
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-09-LED-U-SL4-8030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 800mA 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: 33337 lumens
Efficiency: N/A
Efficacy: 89.1 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 374
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

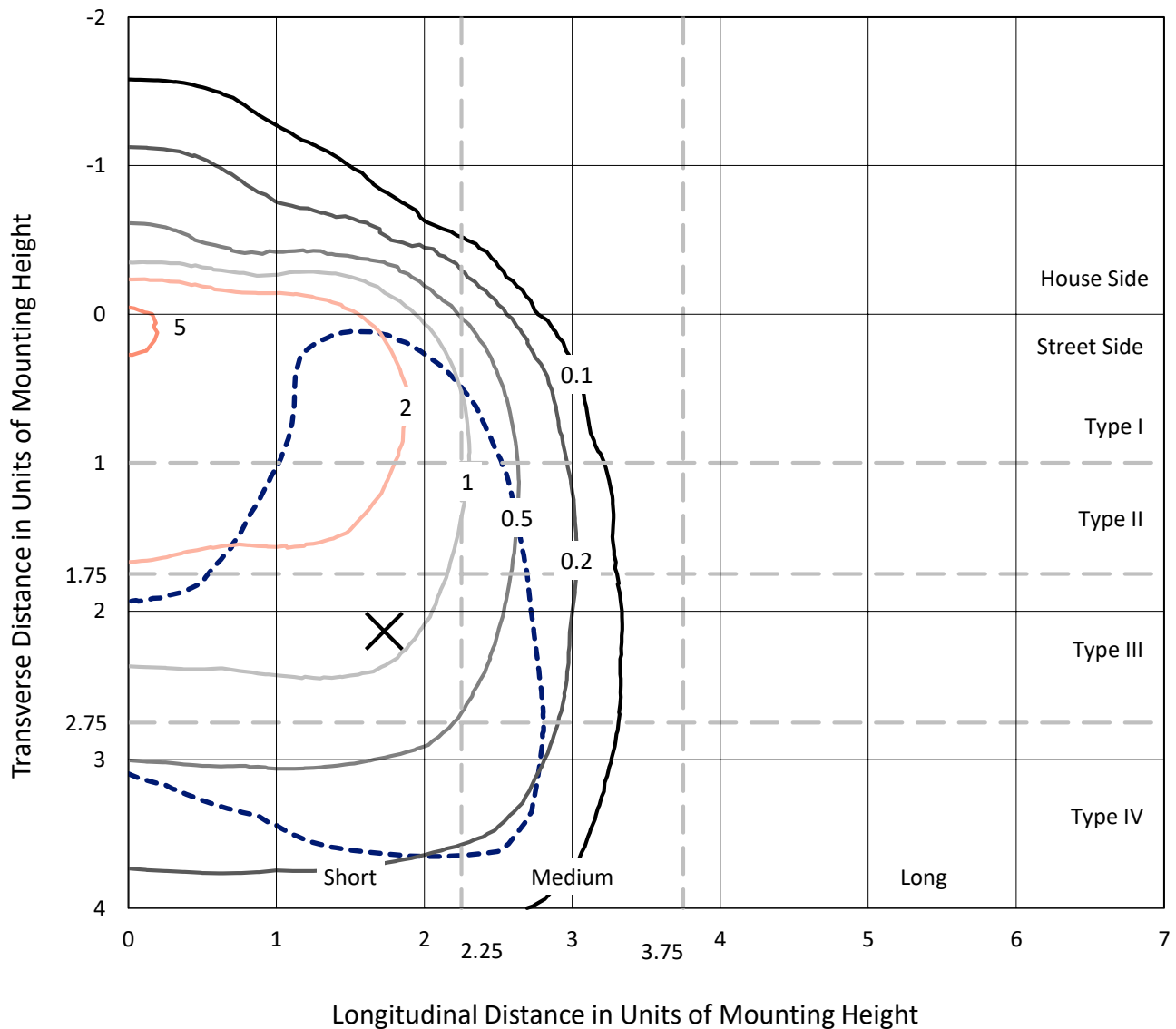


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

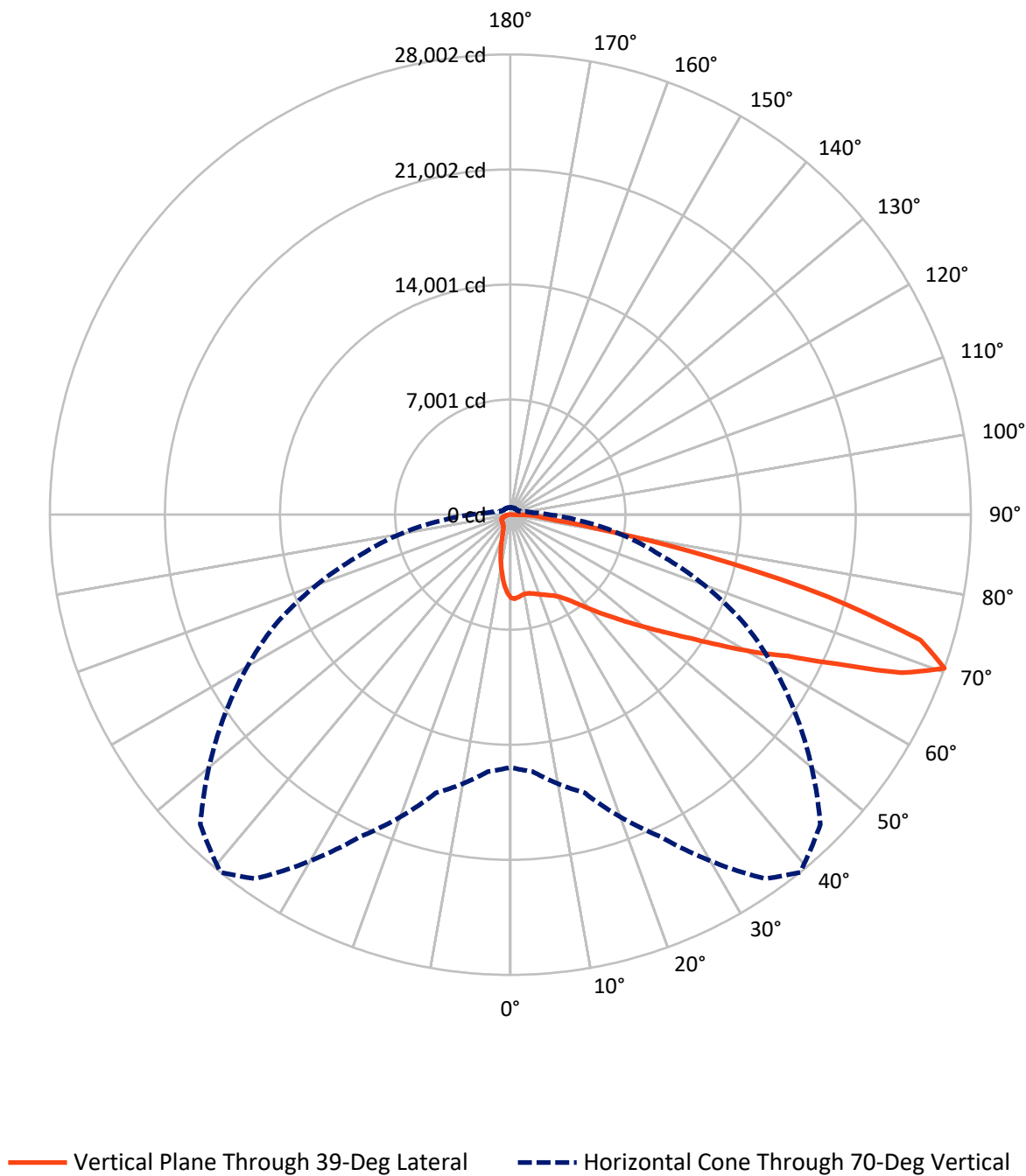


Based on 30 foot mounting height. Maximum calculated value = 5.6 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3791.5	0.0	3791.5
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	29545.4	0.0	29545.4
	% Fixture	88.6	0.0	88.6
Total	Lumens	33337.0	0.0	33337.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	434.3	1.3
10°-20°	1085.7	3.3
20°-30°	1690.4	5.1
30°-40°	2633.4	7.9
40°-50°	4421.0	13.3
50°-60°	7023.1	21.1
60°-70°	9368.1	28.1
70°-80°	5657.1	17.0
80°-90°	1023.9	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°	33337.0	100.0
0°-180°	33337.0	100.0

Coefficient of Utilization



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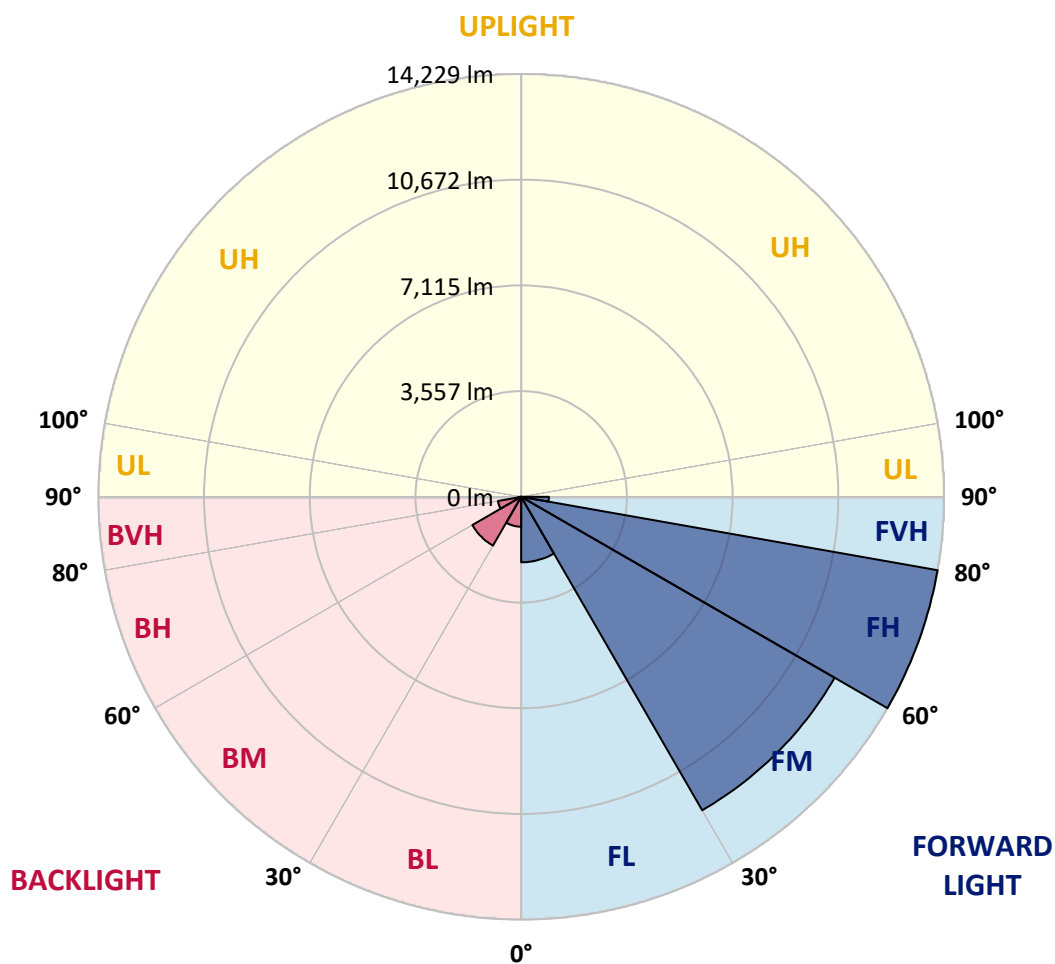
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2204.6	6.6			
FM	(30°-60°)	12180.1	36.5			
FH	(60°-80°)	14229.2	42.7			G5
FVH	(80°-90°)	931.6	2.8			G5
BL	(0°-30°)	1005.8	3.0	B3/2500		
BM	(30°-60°)	1897.4	5.7	B2/2500		
BH	(60°-80°)	796.0	2.4	B2/1000		G2/1000
BVH	(80°-90°)	92.3	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	5061.1	5061.1	5061.1	5061.1	5061.1	5061.1	5061.1	5061.1	5061.1	5061.1	5061.1
2.5°	5159.4	5157.7	5144.1	5134.0	5125.5	5122.1	5128.9	5103.4	5081.4	5054.3	5025.5
5°	5120.4	5118.7	5096.7	5076.3	5056.0	5049.2	5047.5	5001.8	4974.6	4934.0	4879.7
7.5°	5078.0	5069.5	5040.7	5006.8	4971.2	4954.3	4937.3	4878.0	4847.5	4806.8	4744.1
10°	5034.0	5023.8	4996.7	4962.8	4928.9	4903.4	4874.6	4817.0	4784.8	4754.3	4681.4
12.5°	4988.2	4979.7	4972.9	4957.7	4934.0	4911.9	4889.9	4840.7	4806.8	4771.2	4686.5
15°	4981.4	4978.0	4993.3	5003.4	4989.9	4976.3	4952.6	4910.2	4874.6	4839.0	4728.9
17.5°	5035.6	5034.0	5072.9	5100.1	5093.3	5069.5	5037.3	4989.9	4961.1	4930.6	4793.3
20°	5154.3	5162.8	5210.2	5245.8	5211.9	5178.0	5125.5	5059.4	5044.1	5030.6	4859.4
22.5°	5378.0	5386.5	5420.4	5434.0	5345.8	5296.7	5223.8	5139.0	5128.9	5139.0	4939.0
25°	5727.2	5718.7	5713.6	5662.8	5501.8	5425.5	5332.3	5244.1	5249.2	5295.0	5050.9
27.5°	6189.9	6144.1	6072.9	5920.4	5664.5	5579.7	5466.2	5384.8	5417.0	5505.1	5218.7
30°	6669.6	6618.7	6454.3	6205.2	5878.0	5784.8	5657.7	5566.2	5650.9	5789.9	5442.4
32.5°	7113.6	7106.9	6866.2	6545.8	6173.0	6091.6	5964.5	5861.1	5998.4	6210.2	5778.0
35°	7598.4	7613.6	7325.5	6940.8	6571.3	6486.5	6395.0	6317.0	6500.1	6791.6	6264.5
37.5°	8117.0	8147.5	7806.9	7373.0	7025.5	6989.9	6935.7	6901.8	7184.8	7588.2	6944.1
40°	8810.3	8779.8	8306.9	7861.1	7583.1	7581.4	7564.5	7605.2	8076.4	8628.9	7817.0
42.5°	9552.6	9462.8	8837.4	8384.8	8195.0	8252.6	8286.5	8452.6	9149.3	9893.3	8881.5
45°	10352.7	10151.0	9388.2	8939.1	8874.7	8996.7	9112.0	9473.0	10412.0	11332.3	10047.6
47.5°	10991.6	10796.7	9957.7	9520.4	9661.1	9845.9	10067.9	10639.1	11825.6	12818.8	11198.4
50°	11495.0	11367.9	10532.3	10198.4	10527.2	10812.0	11174.7	11959.5	13296.8	14266.3	12264.5
52.5°	11983.2	11888.3	11112.0	10893.3	11544.2	11937.4	12430.6	13376.4	14805.2	15690.0	13161.2
55°	12423.9	12356.1	11735.7	11759.5	12740.8	13252.7	13873.0	14990.0	16449.3	16959.5	13920.5
57.5°	12920.5	12834.0	12447.6	12845.9	14278.1	14942.5	15749.3	16803.6	17991.7	18088.3	14498.5
60°	13420.5	13345.9	13237.4	14100.2	16230.7	16929.0	17693.4	18561.2	19556.1	18964.6	14464.6
62.5°	13854.4	13862.9	14054.4	15417.1	18142.6	18951.1	19883.3	20740.9	20971.4	19117.2	13395.1
65°	14590.0	14723.9	15295.1	17281.5	20834.1	21915.5	23059.6	22922.3	21362.9	17691.7	11101.8
67.5°	15464.6	15700.2	16857.8	19766.3	24235.9	25671.5	26113.9	23415.5	19795.1	14381.5	7913.6
70°	15376.4	15700.2	17532.4	21618.9	27039.3	28002.0	26659.6	21191.8	15718.8	9395.0	4203.4
72.5°	13654.4	14117.1	16157.8	20769.7	26156.2	26071.5	23144.3	15798.5	9339.1	3772.9	1642.4
75°	10406.9	10874.7	12630.6	16408.7	20673.1	19961.2	16422.2	8727.2	3544.1	1498.3	1035.6
77.5°	5986.5	6349.2	7705.2	10062.8	13115.4	12384.9	9140.8	3881.4	1725.4	1044.1	808.5
80°	3342.4	3544.1	4367.8	5105.1	6427.2	5891.6	4089.9	2411.9	1288.1	757.6	623.7
82.5°	2642.4	2822.1	3532.2	3220.4	2935.6	2708.5	2349.2	2147.5	1028.8	478.0	372.9
85°	2308.5	2479.7	2989.9	2535.6	2005.1	1839.0	1908.5	2113.6	800.0	288.1	318.6
87.5°	2139.0	2367.8	2664.4	1954.3	1561.0	1383.1	1761.0	2317.0	257.6	179.7	128.8
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°	5061.1	5061.1	5061.1	5061.1	5061.1	5061.1	5061.1	5061.1	5061.1	5061.1	5061.1
2.5°	5000.1	4972.9	4928.9	4889.9	4828.9	4796.7	4761.1	4735.6	4715.3	4698.4	4725.5
5°	4845.8	4795.0	4701.7	4601.7	4483.1	4389.9	4311.9	4239.0	4188.2	4154.3	4178.0
7.5°	4700.1	4617.0	4471.2	4289.9	4086.5	3913.6	3771.2	3645.8	3559.4	3503.4	3525.5
10°	4617.0	4513.6	4288.2	4003.4	3703.4	3433.9	3210.2	3017.0	2883.1	2806.8	2818.7
12.5°	4596.7	4462.8	4150.9	3759.4	3349.2	2974.6	2659.4	2391.6	2203.4	2105.1	2108.5
15°	4611.9	4440.7	4022.1	3525.5	3006.8	2533.9	2140.7	1815.3	1596.6	1484.8	1483.1
17.5°	4637.3	4423.8	3886.5	3272.9	2659.4	2110.2	1671.2	1352.6	1159.3	1069.5	1062.7
20°	4664.5	4396.7	3733.9	3000.0	2298.3	1717.0	1308.5	1059.3	937.3	888.1	884.8
22.5°	4703.4	4372.9	3576.3	2711.9	1944.1	1398.3	1076.3	908.5	844.1	818.7	815.3
25°	4766.2	4361.1	3408.5	2411.9	1625.4	1169.5	937.3	833.9	796.6	779.7	778.0
27.5°	4871.2	4378.0	3250.9	2120.4	1366.1	1015.3	859.3	796.6	769.5	754.2	752.6
30°	5006.8	4430.6	3084.8	1844.1	1164.4	910.2	811.9	771.2	749.2	733.9	733.9
32.5°	5232.3	4518.7	2910.2	1605.1	1020.4	837.3	776.3	749.2	730.5	718.7	717.0
35°	5564.5	4684.8	2747.5	1406.8	917.0	784.8	745.8	725.4	711.9	705.1	705.1
37.5°	6047.5	4947.5	2603.4	1264.4	854.2	749.2	717.0	701.7	693.2	693.2	693.2
40°	6696.7	5310.2	2486.5	1169.5	818.7	723.7	694.9	683.1	678.0	679.7	679.7
42.5°	7498.4	5781.4	2408.5	1103.4	801.7	708.5	679.7	669.5	664.4	662.7	664.4
45°	8412.0	6317.0	2400.0	1054.2	784.8	698.3	669.5	659.3	649.2	642.4	642.4
47.5°	9300.1	6861.1	2469.5	1037.3	766.1	686.4	661.0	650.9	635.6	620.3	620.3
50°	10084.9	7323.8	2562.7	1044.1	759.3	669.5	647.5	642.4	618.7	601.7	600.0
52.5°	10708.6	7679.7	2639.0	1064.4	766.1	657.6	630.5	632.2	606.8	588.1	586.4
55°	11208.6	7913.6	2618.7	1084.8	781.4	650.9	615.3	618.7	598.3	579.7	579.7
57.5°	11427.2	7827.2	2393.2	1067.8	793.2	652.5	603.4	617.0	600.0	583.1	583.1
60°	10957.7	7059.4	1971.2	993.2	778.0	647.5	598.3	623.7	622.0	605.1	603.4
62.5°	9537.4	5684.8	1528.8	883.1	725.4	622.0	584.8	622.0	640.7	635.6	633.9
65°	7350.9	4049.2	1167.8	764.4	654.2	579.7	549.2	583.1	608.5	615.3	613.6
67.5°	4771.2	2481.4	900.0	652.5	574.6	530.5	503.4	518.6	523.7	523.7	520.3
70°	2345.8	1335.6	717.0	549.2	493.2	478.0	462.7	454.2	445.8	439.0	439.0
72.5°	1157.6	872.9	589.8	464.4	425.4	418.6	415.3	405.1	398.3	389.8	386.4
75°	855.9	710.2	501.7	391.5	366.1	359.3	366.1	357.6	355.9	349.2	345.8
77.5°	703.4	605.1	432.2	335.6	313.6	301.7	311.9	313.6	315.3	305.1	301.7
80°	571.2	511.9	361.0	278.0	257.6	249.2	255.9	269.5	272.9	257.6	250.9
82.5°	411.9	418.6	291.5	217.0	200.0	193.2	206.8	223.7	227.1	205.1	200.0
85°	345.8	349.2	223.7	154.2	137.3	127.1	149.2	166.1	178.0	155.9	150.8
87.5°	144.1	205.1	128.8	86.4	76.3	66.1	79.7	88.1	106.8	98.3	96.6
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)