

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: P321108

Luminaire Tested: **GAN-SA4A-830-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321108
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-29)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4A-830-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15325 lumens
Efficiency: N/A
Efficacy: 118.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

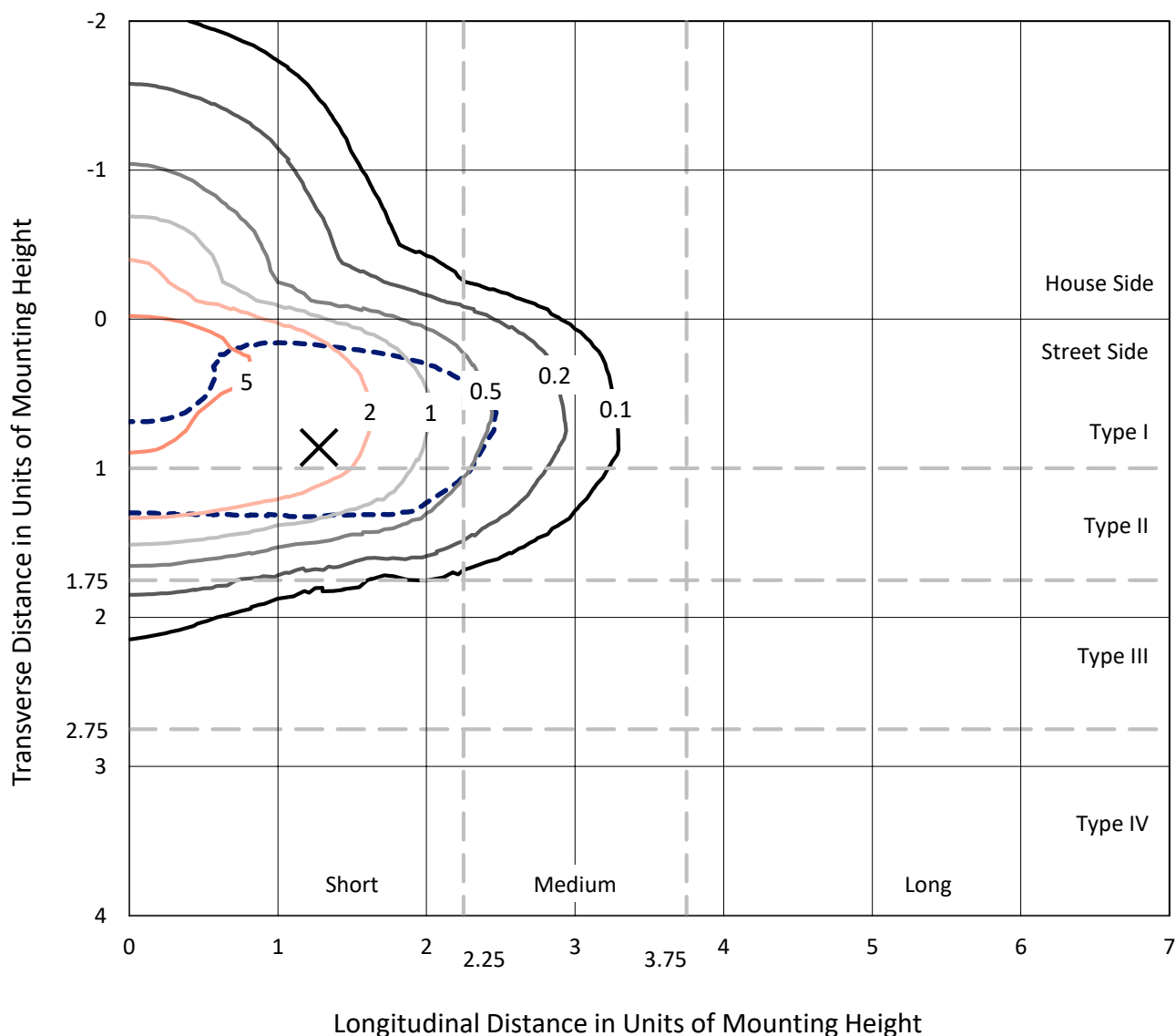
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

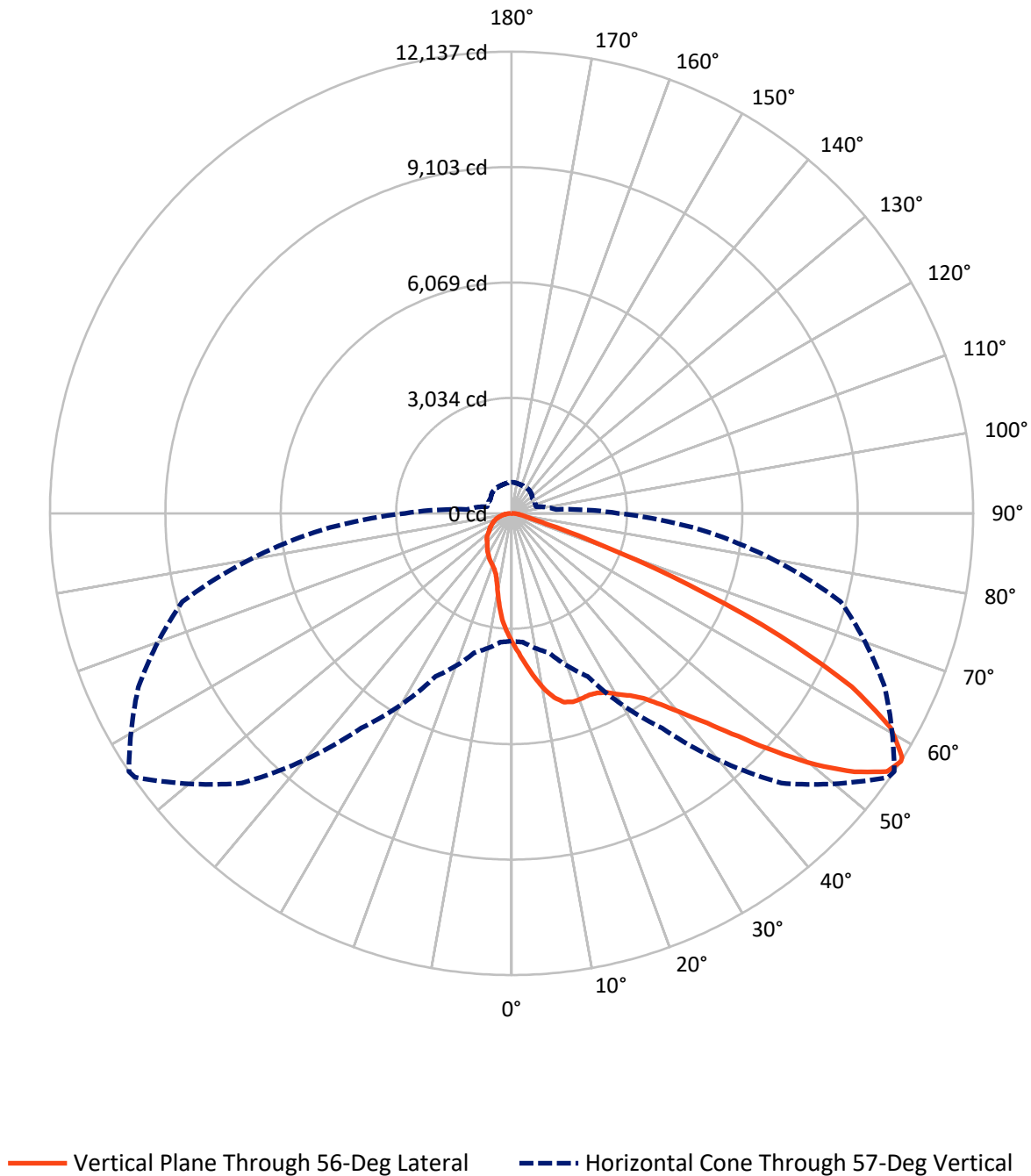
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2641.7	0.0	2641.7
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	12683.3	0.0	12683.3
	% Fixture	82.8	0.0	82.8
Total	Lumens	15325.0	0.0	15325.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	324.7	2.1
10°-20°	918.0	6.0
20°-30°	1495.2	9.8
30°-40°	2235.2	14.6
40°-50°	3390.4	22.1
50°-60°	3800.0	24.8
60°-70°	2244.4	14.6
70°-80°	735.4	4.8
80°-90°	181.7	1.2
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°	15325.0	100.0
0°-180°	15325.0	100.0

Coefficient of Utilization



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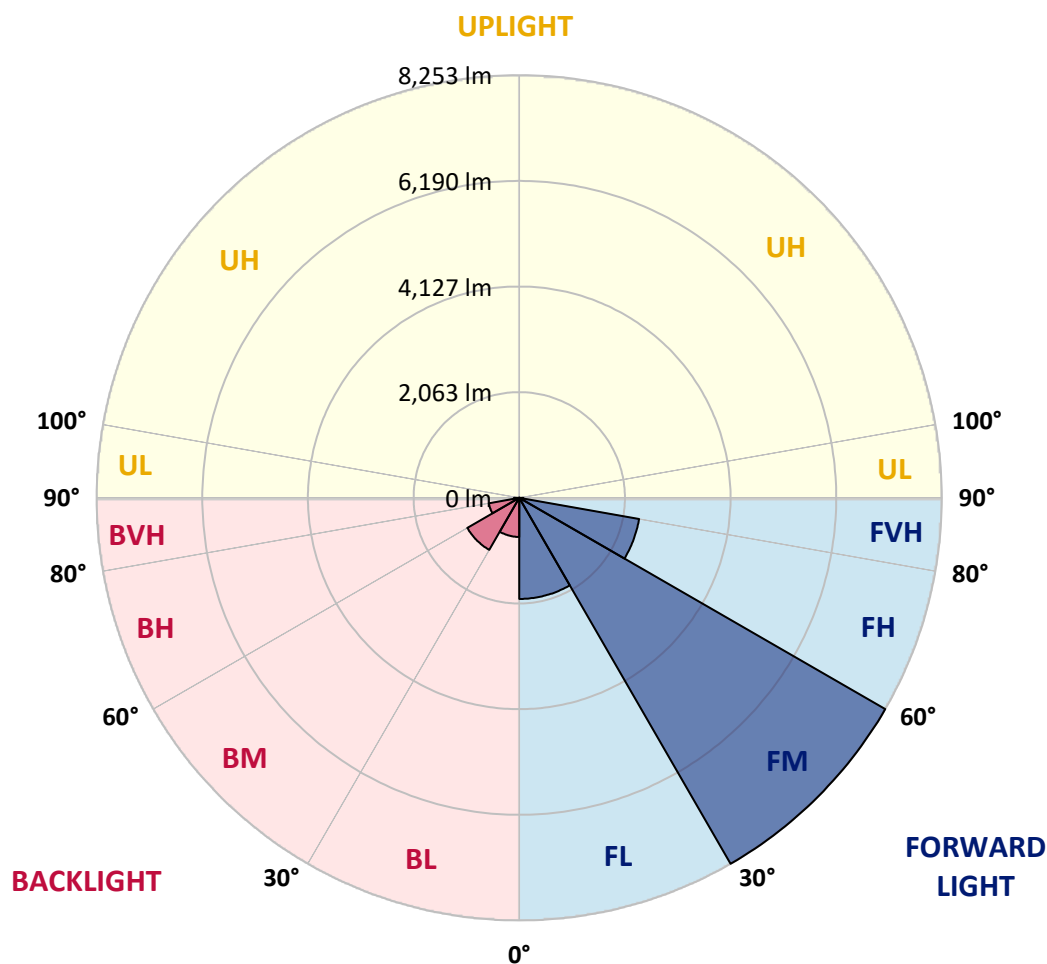
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1974.1	12.9			
FM	(30°-60°)	8253.0	53.9			
FH	(60°-80°)	2376.2	15.5			G2/5000
FVH	(80°-90°)	80.0	0.5			G1/100
BL	(0°-30°)	763.9	5.0	B2/1000		
BM	(30°-60°)	1172.6	7.7	B2/2500		
BH	(60°-80°)	603.6	3.9	B2/1000		G2/1000
BVH	(80°-90°)	101.7	0.7			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	3399.1	3399.1	3399.1	3399.1	3399.1	3399.1	3399.1	3399.1	3399.1	3399.1	3399.1
2.5°	3903.1	3938.9	3923.1	3868.4	3826.2	3766.7	3700.4	3680.3	3610.3	3531.8	3437.5
5°	4520.9	4503.0	4477.2	4391.9	4301.8	4197.0	4030.6	4004.2	3848.3	3670.9	3483.4
7.5°	4872.7	4871.1	4855.9	4805.8	4723.7	4586.7	4386.1	4355.0	4119.6	3834.1	3543.4
10°	4821.6	4817.9	4843.2	4895.4	4920.1	4891.7	4722.6	4691.5	4402.4	4014.8	3612.9
12.5°	4531.4	4533.5	4574.1	4683.6	4832.7	5011.7	4984.4	4969.1	4695.7	4219.1	3697.2
15°	4305.5	4310.2	4342.4	4437.7	4613.6	4938.5	5143.4	5148.7	4979.6	4444.5	3795.7
17.5°	4206.5	4216.5	4231.2	4298.1	4459.3	4792.7	5181.3	5209.8	5228.2	4678.4	3890.5
20°	4238.1	4247.6	4251.8	4294.4	4426.6	4704.2	5155.0	5206.1	5418.9	4898.5	3985.3
22.5°	4379.8	4385.5	4388.2	4399.2	4501.9	4729.5	5137.6	5191.3	5556.8	5096.0	4056.9
25°	4614.6	4610.4	4593.6	4579.4	4648.3	4829.5	5177.6	5228.7	5669.0	5275.1	4103.8
27.5°	4895.9	4890.6	4858.0	4819.0	4858.5	4985.4	5293.0	5333.5	5769.6	5442.6	4127.5
30°	5233.5	5219.8	5158.2	5111.8	5127.1	5219.3	5483.1	5520.0	5925.0	5632.7	4150.7
32.5°	5623.7	5609.0	5520.0	5443.1	5443.1	5520.0	5679.0	5709.6	6056.7	5847.6	4188.0
35°	6112.5	6094.0	5978.2	5849.1	5812.8	5851.8	5946.1	5967.6	6293.7	6118.3	4256.0
37.5°	6688.7	6663.9	6513.8	6341.1	6261.5	6259.4	6327.4	6371.6	6672.3	6473.8	4371.3
40°	7266.4	7249.0	7117.9	6982.0	6826.1	6776.1	6880.9	6894.6	7167.4	6915.1	4518.8
42.5°	7713.0	7709.9	7685.6	7703.5	7544.0	7442.8	7525.0	7536.1	7772.0	7392.8	4675.7
45°	7949.0	7954.2	8071.7	8331.8	8390.8	8317.1	8357.7	8360.8	8463.0	7874.7	4819.5
47.5°	7759.9	7787.3	8084.3	8666.3	9149.2	9394.1	9326.7	9365.7	9132.9	8288.7	4932.2
50°	7023.1	7056.8	7562.4	8517.2	9503.2	10436.4	10401.1	10392.2	9673.3	8592.0	4993.3
52.5°	6110.4	6136.7	6553.8	7742.5	9243.5	11012.6	11336.5	11290.1	10153.6	8819.0	5004.9
55°	4720.5	4761.6	5161.3	6196.2	8193.3	10792.4	12024.3	11982.7	10591.2	8938.0	4991.2
57°	3355.9	3399.1	3796.2	4728.9	6892.5	10030.3	12092.8	12137.0	10827.7	8958.1	5006.5
57.5°	2994.6	3038.9	3432.3	4338.1	6486.9	9754.9	12033.8	12107.5	10870.4	8954.9	5014.9
60°	1507.8	1524.7	1775.4	2421.6	4100.6	7886.3	11264.3	11454.4	10908.8	8800.1	5051.2
62.5°	937.5	925.4	917.5	1115.5	1995.0	5229.8	9676.4	10042.5	10173.1	8425.1	4963.3
65°	824.2	801.6	714.7	698.9	881.1	2540.1	7286.9	7742.5	8601.0	7834.1	4753.7
67.5°	774.2	752.1	654.1	595.1	595.7	1007.0	4524.1	5037.0	6700.2	6835.1	4259.1
70°	722.6	702.6	610.9	541.4	507.2	557.7	2081.4	2470.6	4367.6	5372.5	3559.7
72.5°	656.2	642.5	555.6	484.0	447.7	417.6	796.8	941.2	2528.5	3608.2	2472.2
75°	586.7	574.1	499.8	431.3	387.1	328.6	448.7	483.5	1284.5	1846.0	1217.1
77.5°	510.3	503.0	444.5	381.3	346.0	272.3	317.6	334.4	550.9	791.6	610.4
80°	406.1	420.3	388.7	339.7	307.0	218.0	224.9	235.9	320.7	386.6	346.5
82.5°	264.4	289.1	304.4	276.0	252.8	171.7	161.7	166.4	209.1	235.9	150.6
85°	110.1	123.8	200.1	180.6	168.0	125.3	108.5	110.6	129.6	134.3	61.6
87.5°	49.0	52.1	88.0	82.7	71.1	43.2	46.3	50.6	69.0	65.3	23.7
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°	3399.1	3399.1	3399.1	3399.1	3399.1	3399.1	3399.1	3399.1	3399.1	3399.1	3399.1
2.5°	3402.3	3358.0	3282.2	3198.4	3130.0	3075.2	3019.9	2982.0	2937.7	2914.0	2901.9
5°	3404.9	3318.0	3158.4	2994.6	2848.2	2714.4	2587.0	2489.0	2397.4	2347.9	2334.2
7.5°	3416.0	3285.3	3027.3	2757.6	2497.4	2259.9	2076.6	1961.8	1879.1	1842.3	1831.7
10°	3424.9	3246.9	2865.1	2465.8	2111.9	1871.2	1729.0	1664.8	1636.3	1631.6	1626.9
12.5°	3446.0	3207.4	2694.4	2161.4	1812.3	1645.8	1596.3	1592.1	1600.0	1611.6	1611.6
15°	3479.2	3168.4	2499.6	1900.2	1621.6	1563.1	1573.1	1596.3	1617.9	1635.8	1638.5
17.5°	3503.4	3120.5	2289.9	1691.1	1520.0	1535.8	1571.6	1604.2	1626.3	1643.7	1645.3
20°	3520.8	3046.2	2066.1	1531.5	1461.5	1510.5	1555.2	1584.2	1599.5	1616.9	1619.5
22.5°	3511.8	2946.7	1867.6	1417.3	1414.1	1473.6	1516.3	1551.0	1539.4	1522.6	1533.6
25°	3468.6	2809.8	1663.2	1331.9	1364.1	1424.1	1476.8	1453.6	1414.6	1407.3	1411.5
27.5°	3391.7	2634.9	1474.1	1252.9	1306.1	1378.3	1375.1	1352.0	1338.3	1328.8	1334.6
30°	3309.0	2445.3	1308.8	1183.9	1241.9	1301.4	1289.3	1288.8	1275.1	1259.8	1267.2
32.5°	3227.4	2254.7	1177.6	1127.1	1193.4	1201.3	1227.7	1235.6	1208.7	1176.6	1174.5
35°	3156.3	2074.5	1078.1	1075.5	1135.0	1136.0	1174.5	1163.4	1096.5	1063.3	1063.3
37.5°	3103.1	1894.9	1002.2	1029.1	1058.1	1085.5	1104.9	1059.1	1048.1	1029.6	1029.1
40°	3079.9	1736.9	954.8	993.8	1003.8	1038.6	988.6	1006.5	1011.7	1002.2	1002.2
42.5°	3055.7	1599.5	913.8	967.0	965.4	960.6	935.4	958.5	979.6	980.1	978.5
45°	3031.5	1481.0	877.4	909.6	931.7	880.6	885.3	910.1	939.6	950.1	950.1
47.5°	3004.6	1387.2	844.2	849.0	883.2	849.0	845.3	864.3	899.0	915.9	919.6
50°	2945.6	1303.0	806.3	795.8	805.3	816.9	820.0	829.0	867.4	894.3	900.6
52.5°	2864.0	1227.7	757.9	746.8	746.8	790.5	805.3	807.9	840.6	872.7	879.0
55°	2796.1	1179.7	707.8	705.7	703.6	762.6	787.9	792.1	814.8	840.0	843.2
57°	2800.8	1176.0	669.4	671.5	671.0	734.2	771.6	780.5	792.1	813.7	817.4
57.5°	2803.4	1178.7	661.0	662.0	661.5	726.3	766.8	776.8	785.8	808.4	812.1
60°	2842.9	1185.5	626.7	615.1	617.8	684.1	740.0	752.6	758.4	788.4	793.2
62.5°	2784.5	1155.0	599.3	571.4	571.4	639.9	702.6	722.6	731.5	772.1	780.0
65°	2614.9	1069.1	567.2	521.9	527.2	595.7	657.8	690.5	704.2	754.7	763.1
67.5°	2353.1	969.6	533.0	477.7	483.0	549.3	611.5	646.7	668.3	735.8	742.6
70°	2012.4	847.9	486.6	430.8	437.1	498.8	556.7	596.7	628.8	717.8	720.0
72.5°	1483.6	695.2	421.9	379.2	386.0	439.8	501.4	547.7	590.9	673.1	672.0
75°	882.2	543.5	350.2	327.1	331.8	381.8	451.4	507.7	572.5	655.7	665.7
77.5°	535.1	409.2	285.5	273.9	279.7	330.7	415.5	475.6	564.6	618.3	615.1
80°	323.4	292.3	228.0	220.7	226.5	282.8	384.5	451.4	493.5	528.2	528.2
82.5°	169.1	178.5	167.5	161.7	169.6	229.6	349.7	393.9	436.1	374.5	349.7
85°	69.0	93.2	101.6	101.1	105.9	159.1	301.8	337.1	281.2	267.0	273.3
87.5°	23.2	39.5	49.5	42.7	44.8	100.1	209.1	162.7	193.3	134.8	128.0
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)