

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: P321046

Luminaire Tested: **GAN-SA2C-760-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321046
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-SA2C-760-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14846 lumens
Efficiency: N/A
Efficacy: 131.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

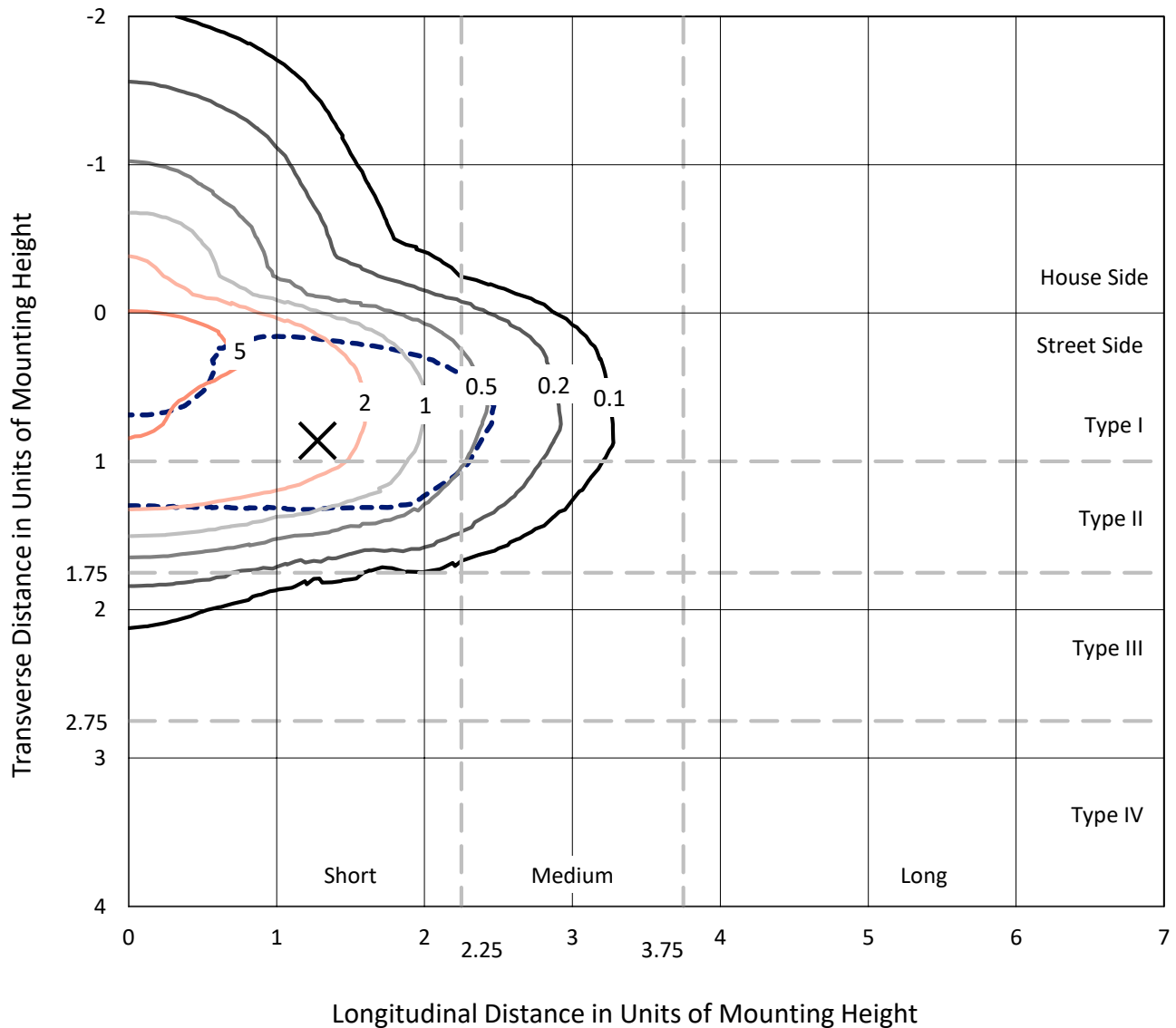
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

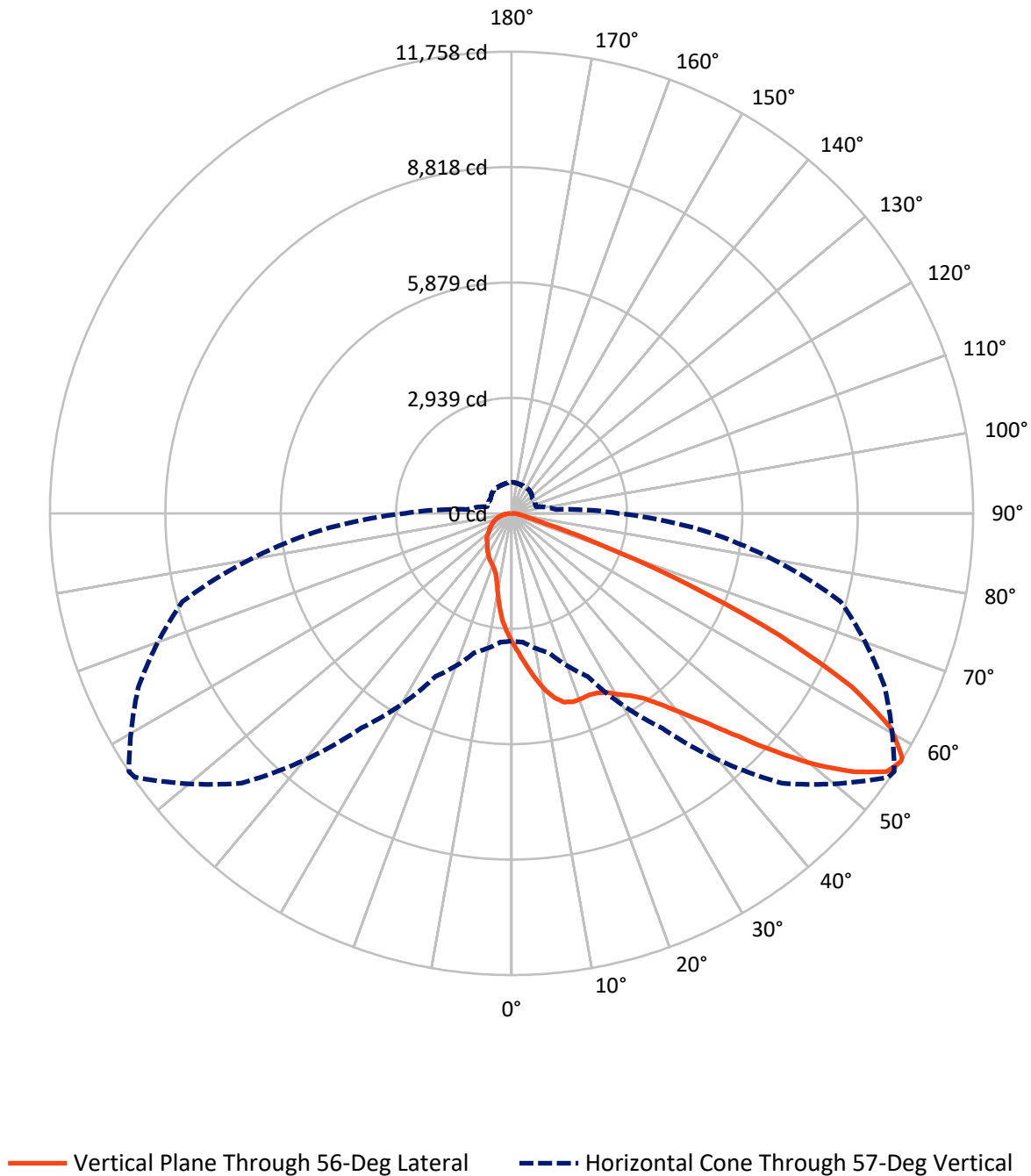
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 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	2559.1	0.0	2559.1
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	12286.9	0.0	12286.9
	% Fixture	82.8	0.0	82.8
Total	Lumens	14846.0	0.0	14846.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	314.6	2.1
10°-20°	889.3	6.0
20°-30°	1448.5	9.8
30°-40°	2165.4	14.6
40°-50°	3284.4	22.1
50°-60°	3681.2	24.8
60°-70°	2174.3	14.6
70°-80°	712.4	4.8
80°-90°	176.0	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°	14846.0	100.0
0°-180°	14846.0	100.0

Coefficient of Utilization



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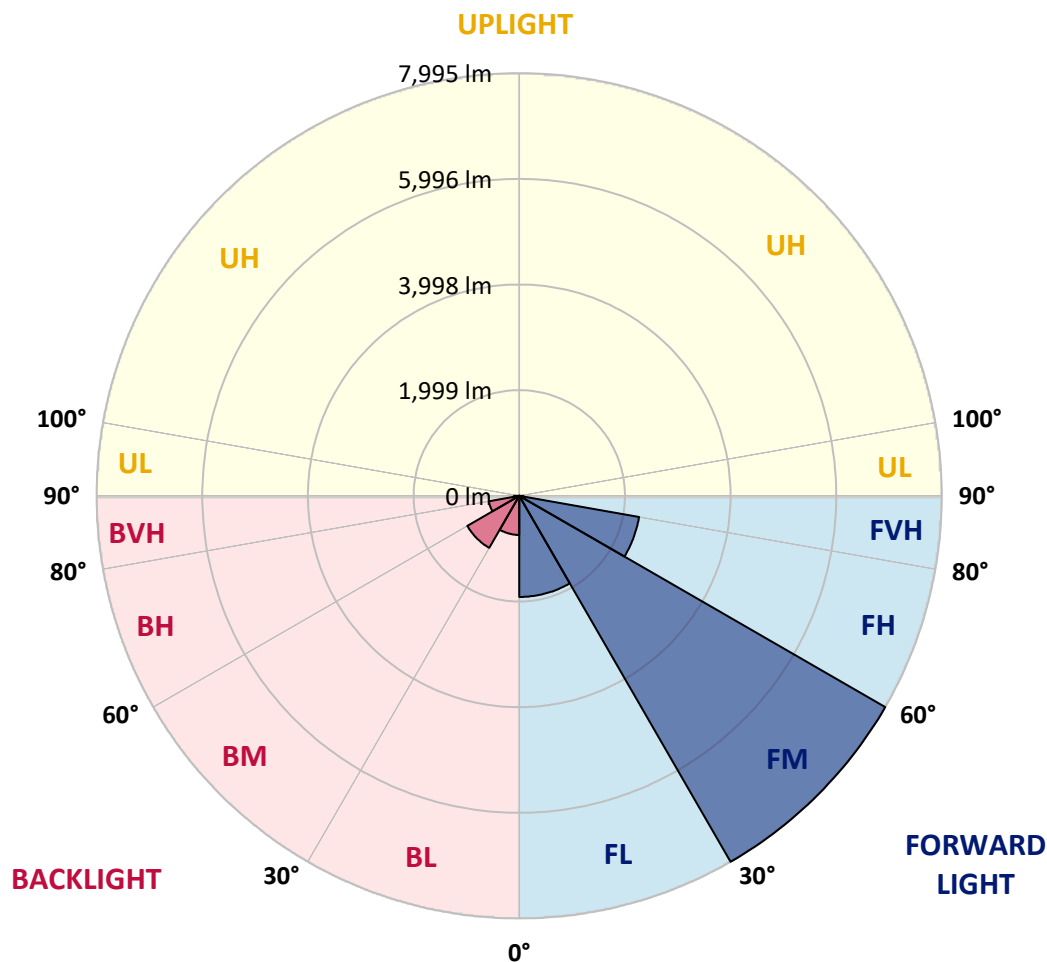
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1912.4	12.9			
FM	(30°-60°)	7995.1	53.9			
FH	(60°-80°)	2301.9	15.5			G2/5000
FVH	(80°-90°)	77.5	0.5			G1/100
BL	(0°-30°)	740.0	5.0	B2/1000		
BM	(30°-60°)	1135.9	7.7	B2/2500		
BH	(60°-80°)	584.7	3.9	B2/1000		G2/1000
BVH	(80°-90°)	98.5	0.7			G1/100
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°	3292.9	3292.9	3292.9	3292.9	3292.9	3292.9	3292.9	3292.9	3292.9	3292.9	3292.9
2.5°	3781.1	3815.8	3800.5	3747.4	3706.6	3649.0	3584.7	3565.3	3497.4	3421.4	3330.1
5°	4379.6	4362.2	4337.2	4254.6	4167.3	4065.8	3904.6	3879.1	3728.1	3556.1	3374.5
7.5°	4720.4	4718.9	4704.1	4655.6	4576.0	4443.4	4249.0	4218.9	3990.8	3714.3	3432.7
10°	4670.9	4667.3	4691.8	4742.3	4766.3	4738.8	4575.0	4544.9	4264.8	3889.3	3500.0
12.5°	4389.8	4391.8	4431.1	4537.2	4681.6	4855.1	4828.6	4813.8	4549.0	4087.2	3581.6
15°	4170.9	4175.5	4206.6	4299.0	4469.4	4784.2	4982.7	4987.8	4824.0	4305.6	3677.0
17.5°	4075.0	4084.7	4099.0	4163.8	4319.9	4642.9	5019.4	5046.9	5064.8	4532.1	3768.9
20°	4105.6	4114.8	4118.9	4160.2	4288.3	4557.1	4993.9	5043.4	5249.5	4745.4	3860.7
22.5°	4242.9	4248.5	4251.0	4261.7	4361.2	4581.6	4977.0	5029.1	5383.2	4936.7	3930.1
25°	4470.4	4466.3	4450.0	4436.2	4503.1	4678.6	5015.8	5065.3	5491.8	5110.2	3975.5
27.5°	4742.9	4737.8	4706.1	4668.4	4706.6	4829.6	5127.5	5166.8	5589.3	5272.4	3998.5
30°	5069.9	5056.6	4996.9	4952.0	4966.8	5056.1	5311.7	5347.4	5739.8	5456.6	4020.9
32.5°	5448.0	5433.7	5347.4	5273.0	5273.0	5347.4	5501.5	5531.1	5867.3	5664.8	4057.1
35°	5921.4	5903.6	5791.3	5666.3	5631.1	5668.9	5760.2	5781.1	6096.9	5927.0	4123.0
37.5°	6479.6	6455.6	6310.2	6142.9	6065.8	6063.8	6129.6	6172.4	6463.8	6271.4	4234.7
40°	7039.3	7022.4	6895.4	6763.8	6612.8	6564.3	6665.8	6679.1	6943.4	6699.0	4377.5
42.5°	7471.9	7468.9	7445.4	7462.8	7308.2	7210.2	7289.8	7300.5	7529.1	7161.7	4529.6
45°	7700.5	7705.6	7819.4	8071.4	8128.6	8057.1	8096.4	8099.5	8198.5	7628.6	4668.9
47.5°	7517.3	7543.9	7831.6	8395.4	8863.3	9100.5	9035.2	9073.0	8847.4	8029.6	4778.1
50°	6803.6	6836.2	7326.0	8251.0	9206.1	10110.2	10076.0	10067.3	9370.9	8323.5	4837.2
52.5°	5919.4	5944.9	6349.0	7500.5	8954.6	10668.4	10982.1	10937.2	9836.2	8543.4	4848.5
55°	4573.0	4612.8	5000.0	6002.5	7937.2	10455.1	11648.5	11608.2	10260.2	8658.7	4835.2
57°	3251.0	3292.9	3677.6	4581.1	6677.0	9716.8	11714.8	11757.7	10489.3	8678.1	4850.0
57.5°	2901.0	2943.9	3325.0	4202.5	6284.2	9450.0	11657.7	11729.1	10530.6	8675.0	4858.2
60°	1460.7	1477.0	1719.9	2345.9	3972.4	7639.8	10912.2	11096.4	10567.9	8525.0	4893.4
62.5°	908.2	896.4	888.8	1080.6	1932.7	5066.3	9374.0	9728.6	9855.1	8161.7	4808.2
65°	798.5	776.5	692.3	677.0	853.6	2460.7	7059.2	7500.5	8332.1	7589.3	4605.1
67.5°	750.0	728.6	633.7	576.5	577.0	975.5	4382.7	4879.6	6490.8	6621.4	4126.0
70°	700.0	680.6	591.8	524.5	491.3	540.3	2016.3	2393.4	4231.1	5204.6	3448.5
72.5°	635.7	622.4	538.3	468.9	433.7	404.6	771.9	911.7	2449.5	3495.4	2394.9
75°	568.4	556.1	484.2	417.9	375.0	318.4	434.7	468.4	1244.4	1788.3	1179.1
77.5°	494.4	487.2	430.6	369.4	335.2	263.8	307.7	324.0	533.7	766.8	591.3
80°	393.4	407.1	376.5	329.1	297.4	211.2	217.9	228.6	310.7	374.5	335.7
82.5°	256.1	280.1	294.9	267.3	244.9	166.3	156.6	161.2	202.6	228.6	145.9
85°	106.6	119.9	193.9	175.0	162.8	121.4	105.1	107.1	125.5	130.1	59.7
87.5°	47.4	50.5	85.2	80.1	68.9	41.8	44.9	49.0	66.8	63.3	23.0
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°	3292.9	3292.9	3292.9	3292.9	3292.9	3292.9	3292.9	3292.9	3292.9	3292.9	3292.9
2.5°	3295.9	3253.1	3179.6	3098.5	3032.1	2979.1	2925.5	2888.8	2845.9	2823.0	2811.2
5°	3298.5	3214.3	3059.7	2901.0	2759.2	2629.6	2506.1	2411.2	2322.4	2274.5	2261.2
7.5°	3309.2	3182.7	2932.7	2671.4	2419.4	2189.3	2011.7	1900.5	1820.4	1784.7	1774.5
10°	3317.9	3145.4	2775.5	2388.8	2045.9	1812.8	1675.0	1612.8	1585.2	1580.6	1576.0
12.5°	3338.3	3107.1	2610.2	2093.9	1755.6	1594.4	1546.4	1542.3	1550.0	1561.2	1561.2
15°	3370.4	3069.4	2421.4	1840.8	1570.9	1514.3	1524.0	1546.4	1567.3	1584.7	1587.2
17.5°	3393.9	3023.0	2218.4	1638.3	1472.4	1487.8	1522.4	1554.1	1575.5	1592.3	1593.9
20°	3410.7	2951.0	2001.5	1483.7	1415.8	1463.3	1506.6	1534.7	1549.5	1566.3	1568.9
22.5°	3402.0	2854.6	1809.2	1373.0	1369.9	1427.6	1468.9	1502.6	1491.3	1475.0	1485.7
25°	3360.2	2721.9	1611.2	1290.3	1321.4	1379.6	1430.6	1408.2	1370.4	1363.3	1367.3
27.5°	3285.7	2552.6	1428.1	1213.8	1265.3	1335.2	1332.1	1309.7	1296.4	1287.2	1292.9
30°	3205.6	2368.9	1267.9	1146.9	1203.1	1260.7	1249.0	1248.5	1235.2	1220.4	1227.6
32.5°	3126.5	2184.2	1140.8	1091.8	1156.1	1163.8	1189.3	1196.9	1170.9	1139.8	1137.8
35°	3057.7	2009.7	1044.4	1041.8	1099.5	1100.5	1137.8	1127.0	1062.2	1030.1	1030.1
37.5°	3006.1	1835.7	970.9	996.9	1025.0	1051.5	1070.4	1026.0	1015.3	997.4	996.9
40°	2983.7	1682.7	925.0	962.8	972.4	1006.1	957.7	975.0	980.1	970.9	970.9
42.5°	2960.2	1549.5	885.2	936.7	935.2	930.6	906.1	928.6	949.0	949.5	948.0
45°	2936.7	1434.7	850.0	881.1	902.6	853.1	857.7	881.6	910.2	920.4	920.4
47.5°	2910.7	1343.9	817.9	822.4	855.6	822.4	818.9	837.2	870.9	887.2	890.8
50°	2853.6	1262.2	781.1	770.9	780.1	791.3	794.4	803.1	840.3	866.3	872.4
52.5°	2774.5	1189.3	734.2	723.5	723.5	765.8	780.1	782.7	814.3	845.4	851.5
55°	2708.7	1142.9	685.7	683.7	681.6	738.8	763.3	767.3	789.3	813.8	816.8
57°	2713.3	1139.3	648.5	650.5	650.0	711.2	747.4	756.1	767.3	788.3	791.8
57.5°	2715.8	1141.8	640.3	641.3	640.8	703.6	742.9	752.6	761.2	783.2	786.7
60°	2754.1	1148.5	607.1	595.9	598.5	662.8	716.8	729.1	734.7	763.8	768.4
62.5°	2697.4	1118.9	580.6	553.6	553.6	619.9	680.6	700.0	708.7	748.0	755.6
65°	2533.2	1035.7	549.5	505.6	510.7	577.0	637.2	668.9	682.1	731.1	739.3
67.5°	2279.6	939.3	516.3	462.8	467.9	532.1	592.3	626.5	647.4	712.8	719.4
70°	1949.5	821.4	471.4	417.3	423.5	483.2	539.3	578.1	609.2	695.4	697.4
72.5°	1437.2	673.5	408.7	367.3	374.0	426.0	485.7	530.6	572.4	652.0	651.0
75°	854.6	526.5	339.3	316.8	321.4	369.9	437.2	491.8	554.6	635.2	644.9
77.5°	518.4	396.4	276.5	265.3	270.9	320.4	402.6	460.7	546.9	599.0	595.9
80°	313.3	283.2	220.9	213.8	219.4	274.0	372.4	437.2	478.1	511.7	511.7
82.5°	163.8	173.0	162.2	156.6	164.3	222.4	338.8	381.6	422.4	362.8	338.8
85°	66.8	90.3	98.5	98.0	102.6	154.1	292.3	326.5	272.4	258.7	264.8
87.5°	22.4	38.3	48.0	41.3	43.4	96.9	202.6	157.7	187.2	130.6	124.0
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)