

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: P317528

Luminaire Tested: **GAN-SA4C-760-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317528
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4C-760-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29724 lumens
Efficiency: N/A
Efficacy: 132.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 225
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

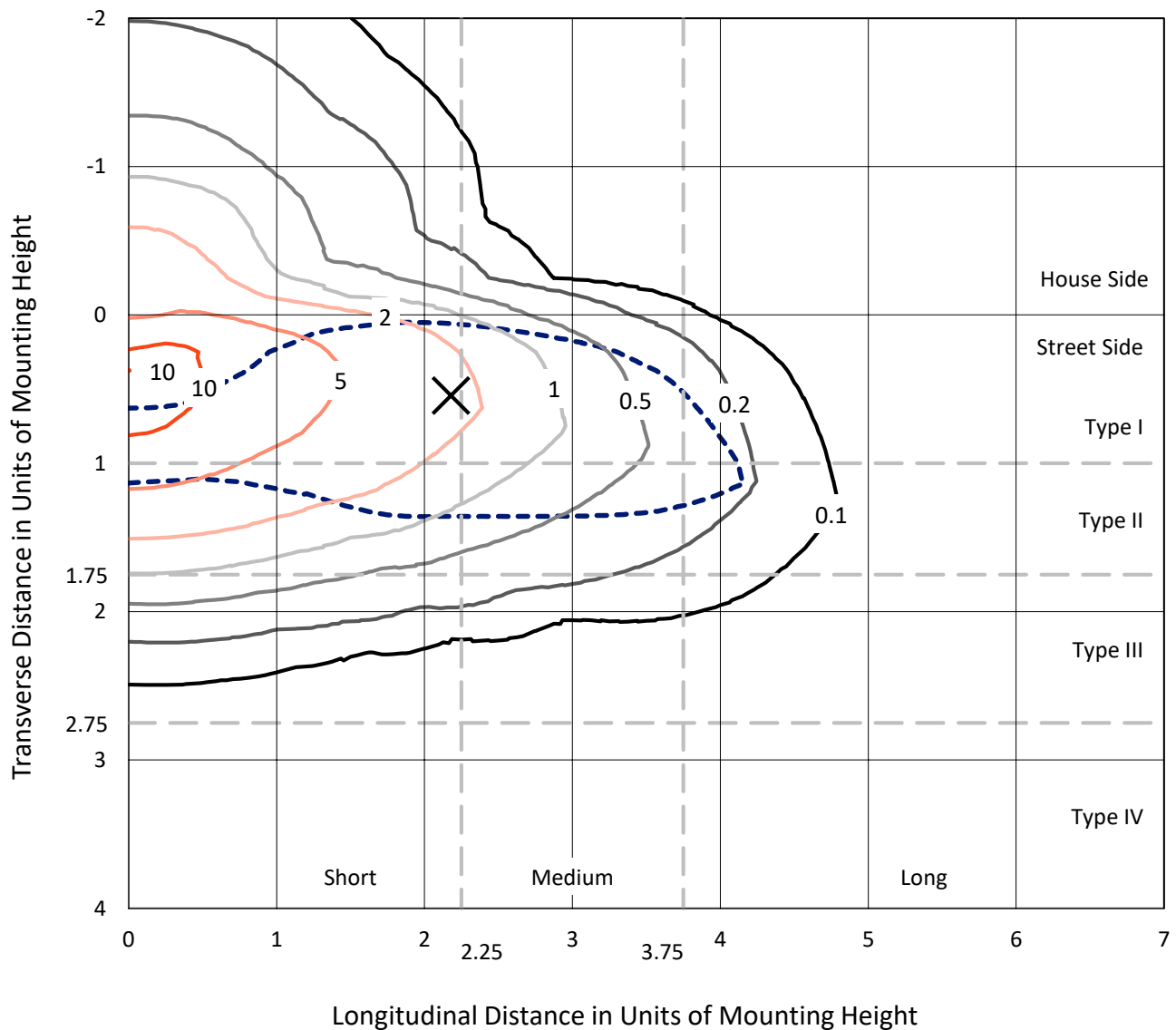


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Iso-Footcandle Lines of Horizontal Illumination

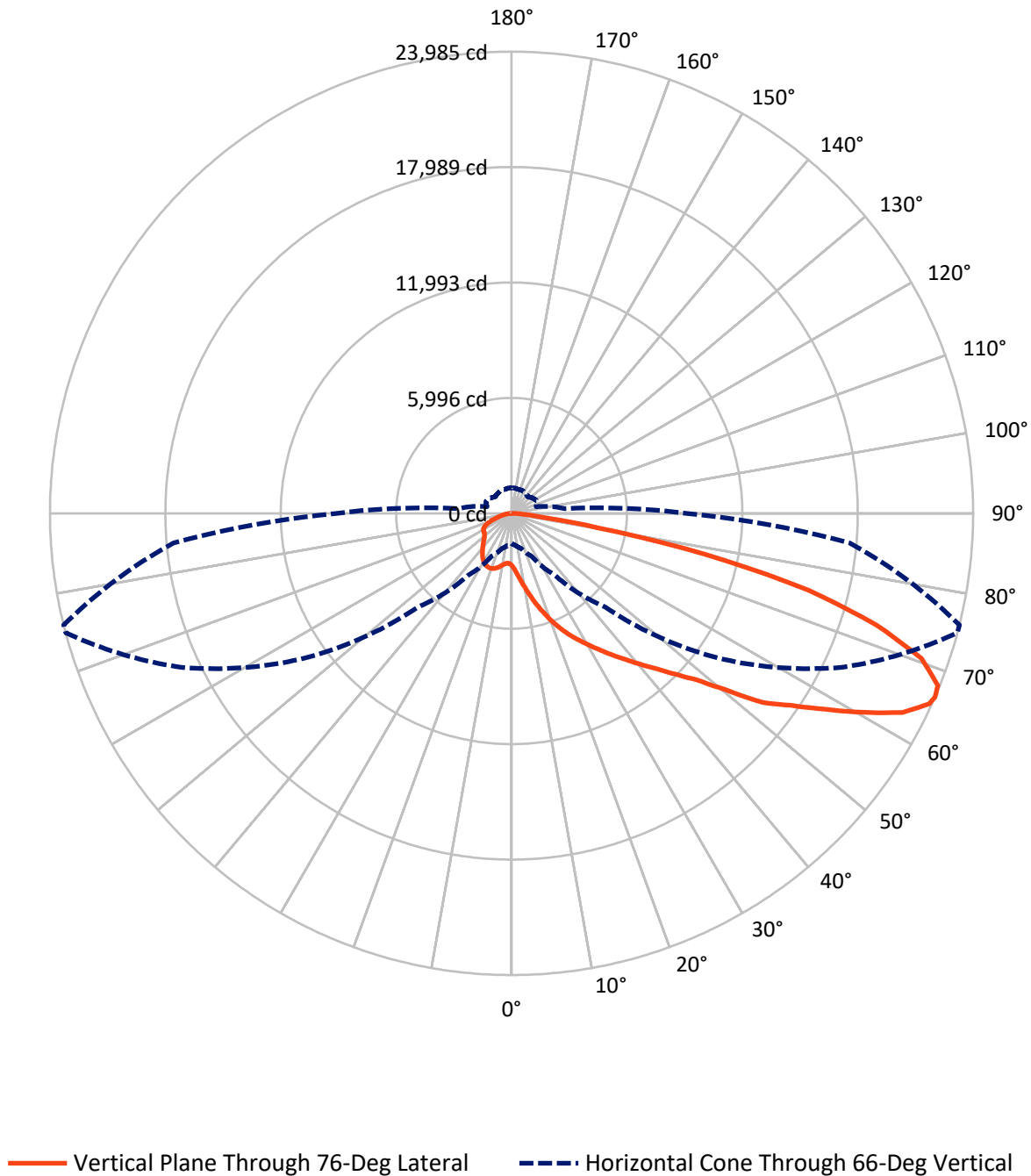
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.5 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	5001.5	0.0	5001.5
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	24722.5	0.0	24722.5
	% Fixture	83.2	0.0	83.2
Total	Lumens	29724.0	0.0	29724.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	328.3	1.1
10°-20°	1296.3	4.4
20°-30°	2518.9	8.5
30°-40°	4111.5	13.8
40°-50°	5617.2	18.9
50°-60°	6542.9	22.0
60°-70°	5865.9	19.7
70°-80°	2964.4	10.0
80°-90°	478.7	1.6
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°	29724.0	100.0
0°-180°	29724.0	100.0

Coefficient of Utilization



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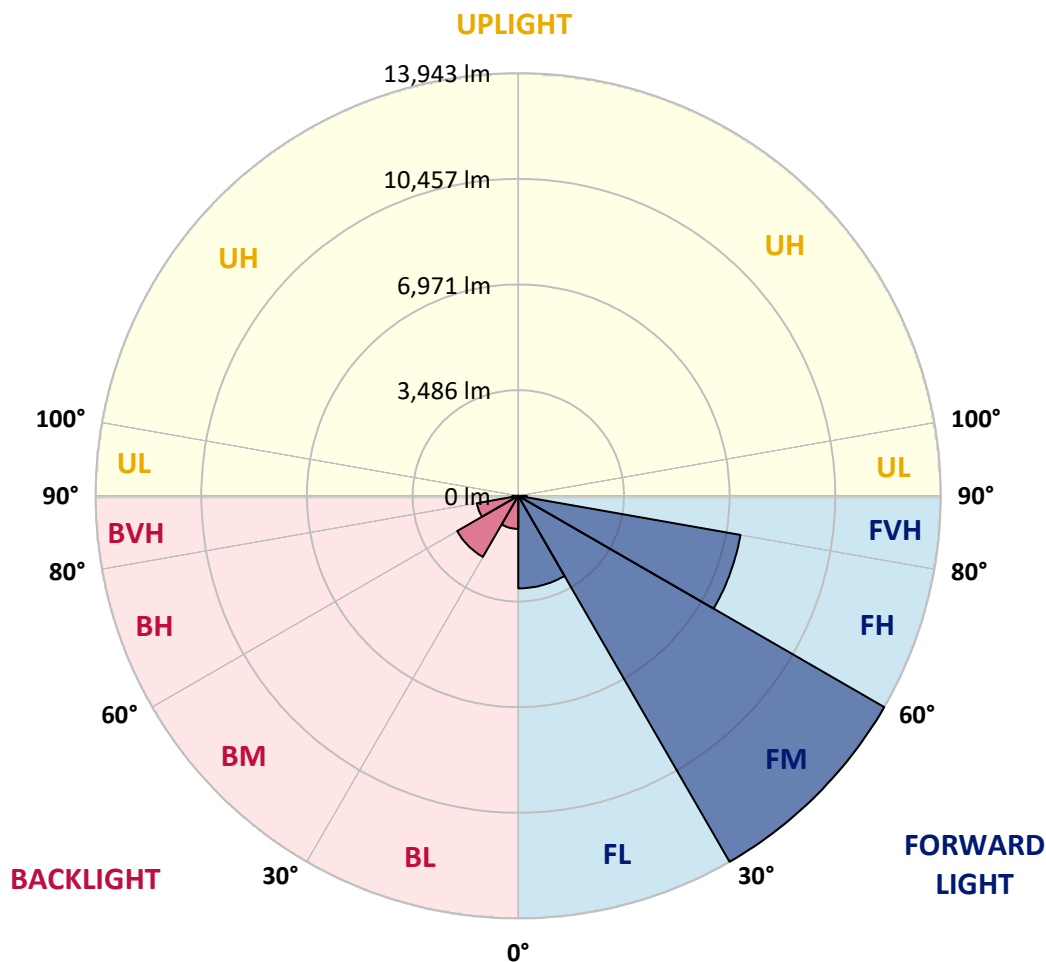
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3052.6	10.3			
FM	(30°-60°)	13942.6	46.9			
FH	(60°-80°)	7444.6	25.0			G3/7500
FVH	(80°-90°)	282.7	1.0			G3/500
BL	(0°-30°)	1090.9	3.7	B3/2500		
BM	(30°-60°)	2329.0	7.8	B2/2500		
BH	(60°-80°)	1385.7	4.7	B3/2500		G3/2500
BVH	(80°-90°)	196.0	0.7			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2714.5	2714.5	2714.5	2714.5	2714.5	2714.5	2714.5	2714.5	2714.5	2714.5	2714.5
2.5°	3603.5	3549.0	3543.9	3464.2	3446.1	3293.7	3181.7	3064.6	2931.4	2905.2	2800.2
5°	4628.7	4623.7	4554.1	4423.9	4322.0	4061.6	3804.3	3531.8	3233.1	3184.7	2948.6
7.5°	5551.0	5543.0	5489.5	5349.2	5201.9	4882.0	4514.7	4096.9	3612.6	3540.9	3149.4
10°	6251.4	6248.3	6230.2	6127.2	6002.1	5695.3	5289.7	4719.5	4053.5	3955.7	3400.7
12.5°	6792.2	6798.3	6810.4	6774.1	6714.5	6453.2	6037.4	5379.5	4523.8	4426.9	3680.2
15°	7158.5	7176.7	7239.3	7290.7	7322.0	7161.6	6758.9	6054.6	5050.5	4934.5	3990.0
17.5°	7343.2	7363.4	7471.4	7626.8	7770.0	7753.9	7434.0	6698.4	5556.1	5444.1	4323.0
20°	7502.6	7517.8	7638.9	7825.5	8078.8	8190.8	8011.2	7318.0	6110.1	5976.9	4676.2
22.5°	7964.8	7984.0	8020.3	8126.3	8350.3	8556.1	8469.4	7904.3	6617.7	6493.5	5011.2
25°	8856.8	8880.1	8801.3	8711.5	8753.9	8897.2	8913.4	8439.1	7132.3	6992.0	5371.4
27.5°	9931.5	9964.8	9830.6	9599.5	9397.7	9342.2	9323.0	8877.0	7623.7	7461.3	5727.6
30°	10984.0	11041.5	10867.0	10567.3	10196.9	9936.6	9743.8	9305.9	8108.1	7952.7	6063.7
32.5°	12012.3	11989.1	11735.8	11443.2	11009.3	10683.3	10217.1	9766.0	8653.0	8474.4	6397.7
35°	12716.6	12724.7	12489.6	12142.5	11728.7	11478.5	10850.8	10262.5	9209.0	9044.5	6777.1
37.5°	13316.0	13278.7	13012.3	12688.4	12332.2	12225.2	11592.5	10809.4	9811.5	9631.8	7180.7
40°	13515.8	13472.5	13297.9	13064.8	12779.2	12770.1	12410.9	11429.0	10492.6	10315.0	7635.8
42.5°	13394.8	13339.3	13267.6	13204.0	13116.2	13156.6	13179.8	12155.6	11241.3	11042.6	8162.6
45°	12947.7	12864.0	12914.4	13052.7	13243.4	13471.4	13874.1	12959.8	12079.9	11913.4	8781.2
47.5°	12260.5	12184.8	12342.3	12637.9	13156.6	13733.8	14531.0	13847.8	13080.9	12915.4	9662.1
50°	11293.8	11316.0	11541.0	12078.9	12863.0	13854.9	15340.3	15023.4	14536.0	14381.7	10863.9
52.5°	9707.5	9711.6	10345.3	11228.2	12342.3	13792.3	15789.3	16526.0	16523.0	16336.3	12008.3
55°	8234.2	8324.0	8825.6	9999.1	11498.7	13542.1	16103.2	17256.6	17827.7	17608.7	13074.9
57.5°	6795.3	6847.7	7323.0	8501.6	10294.8	12875.1	16425.1	18133.5	19331.3	19193.0	14400.8
60°	5158.5	5239.2	5730.7	6819.5	8754.9	11691.4	16455.3	19048.7	21128.5	20989.2	15881.2
62.5°	3348.2	3487.4	3947.6	4967.8	6892.1	9989.1	15753.0	19647.1	22831.8	22782.4	17195.0
65°	1924.3	2029.3	2349.2	3136.3	4754.9	7851.8	14083.0	19417.0	23880.3	23852.0	17686.4
66°	1572.2	1637.8	1883.0	2451.1	3923.4	6895.2	13112.2	18931.7	23984.2	23985.2	17629.9
67.5°	1257.3	1286.6	1396.6	1754.8	2895.1	5465.3	11377.6	17861.0	23855.1	23890.4	17265.7
70°	1040.4	1055.5	1089.8	1176.6	1580.2	3295.7	8075.8	15078.9	22558.4	22585.6	15843.8
72.5°	933.4	942.5	955.6	967.7	1115.1	1841.6	4932.5	12062.7	19778.3	19813.6	13677.3
75°	845.6	850.7	848.7	849.7	935.4	1173.6	2549.0	9006.2	15992.2	15921.5	10477.5
77.5°	742.7	747.7	737.7	739.7	827.5	902.1	1268.4	6304.8	10792.3	10293.8	5903.2
80°	627.7	631.7	627.7	634.7	720.5	681.1	737.7	3547.0	4772.0	4513.7	2098.9
82.5°	474.3	491.4	503.5	531.8	593.3	484.4	493.4	1381.5	1453.1	1383.5	643.8
85°	207.9	253.3	379.4	406.7	446.0	290.6	323.9	563.1	591.3	573.2	234.1
87.5°	54.5	59.5	187.7	236.1	247.2	131.2	168.5	256.3	270.4	256.3	77.7
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°	2714.5	2714.5	2714.5	2714.5	2714.5	2714.5	2714.5	2714.5	2714.5	2714.5	2714.5
2.5°	2744.7	2695.3	2606.5	2527.8	2468.3	2427.9	2387.5	2367.3	2355.2	2343.1	2345.1
5°	2832.5	2732.6	2580.3	2472.3	2411.7	2373.4	2353.2	2345.1	2340.1	2328.0	2328.0
7.5°	2964.7	2823.5	2613.6	2502.6	2455.1	2425.9	2413.8	2409.7	2403.7	2389.5	2391.6
10°	3131.2	2933.4	2683.2	2575.2	2531.8	2499.5	2482.4	2476.3	2465.2	2449.1	2451.1
12.5°	3327.0	3069.7	2775.0	2662.0	2609.5	2566.1	2537.9	2520.7	2501.6	2480.4	2481.4
15°	3540.9	3218.0	2873.9	2739.7	2668.1	2607.5	2562.1	2532.8	2502.6	2476.3	2475.3
17.5°	3757.9	3361.3	2949.6	2782.1	2685.2	2605.5	2543.9	2498.5	2461.2	2428.9	2425.9
20°	3992.0	3490.5	2992.0	2778.0	2652.9	2558.1	2476.3	2419.8	2378.4	2346.2	2341.1
22.5°	4230.1	3611.6	2999.0	2736.7	2581.3	2465.2	2379.5	2316.9	2274.5	2241.2	2229.1
25°	4448.1	3705.4	2969.8	2657.0	2481.4	2356.2	2272.5	2208.9	2174.6	2135.2	2123.1
27.5°	4646.9	3771.0	2911.2	2555.0	2369.4	2246.3	2167.5	2113.0	2075.7	2045.4	2035.3
30°	4825.5	3806.3	2815.4	2433.9	2254.3	2142.3	2075.7	2038.4	2006.1	1967.7	1960.7
32.5°	4995.0	3806.3	2692.3	2301.8	2140.3	2050.5	2011.1	1987.9	1951.6	1914.3	1904.2
35°	5164.6	3783.1	2547.0	2163.5	2035.3	1984.9	1982.9	1955.6	1900.1	1849.7	1836.6
37.5°	5343.2	3735.7	2383.5	2034.3	1949.6	1955.6	1972.8	1912.2	1833.5	1761.9	1742.7
40°	5545.0	3670.1	2214.0	1922.3	1877.9	1942.5	1945.5	1849.7	1696.3	1630.7	1613.5
42.5°	5782.1	3604.5	2056.5	1823.4	1821.4	1903.2	1894.1	1714.5	1622.6	1589.3	1580.2
45°	6093.9	3567.2	1907.2	1729.6	1777.0	1839.6	1806.3	1639.8	1601.4	1582.3	1574.2
47.5°	6585.4	3586.3	1770.0	1654.9	1732.6	1776.0	1642.8	1609.5	1582.3	1559.1	1551.0
50°	7200.9	3575.2	1659.0	1603.5	1682.2	1709.4	1569.1	1570.2	1556.0	1529.8	1517.7
52.5°	7664.1	3488.4	1587.3	1574.2	1637.8	1591.3	1522.7	1531.8	1524.7	1486.4	1473.3
55°	8111.1	3413.8	1551.0	1563.1	1605.5	1444.0	1468.2	1490.4	1483.4	1446.0	1440.0
57.5°	8667.1	3399.6	1528.8	1566.1	1578.2	1370.4	1415.8	1445.0	1440.0	1423.8	1420.8
60°	9348.3	3403.7	1508.6	1571.2	1548.0	1315.9	1366.3	1403.7	1406.7	1403.7	1401.6
62.5°	9722.7	3293.7	1458.1	1557.0	1494.5	1268.4	1314.9	1369.3	1370.4	1376.4	1375.4
65°	9404.8	2964.7	1364.3	1507.6	1404.7	1229.1	1270.5	1330.0	1314.9	1342.1	1342.1
66°	9096.0	2775.0	1317.9	1475.3	1366.3	1213.9	1256.3	1309.8	1290.6	1328.0	1328.0
67.5°	8465.3	2455.1	1234.1	1406.7	1311.8	1192.8	1240.2	1276.5	1250.3	1305.8	1301.7
70°	7312.9	1899.1	1065.6	1251.3	1222.0	1161.5	1218.0	1209.9	1171.6	1256.3	1240.2
72.5°	6165.6	1443.0	855.7	1047.4	1085.8	1122.1	1186.7	1125.1	1076.7	1136.2	1100.9
75°	4784.1	1084.8	676.1	814.3	917.3	1060.6	1149.4	1027.3	957.6	951.6	932.4
77.5°	2586.3	744.7	535.8	621.6	728.6	983.9	1124.1	922.3	817.4	793.2	778.0
80°	1024.2	484.4	389.5	471.2	509.6	872.9	1063.6	800.2	674.1	649.9	626.6
82.5°	422.8	286.6	251.3	315.8	332.0	746.7	954.6	655.9	520.7	720.5	764.9
85°	181.6	157.4	149.3	163.5	187.7	523.7	759.9	500.5	562.1	501.5	398.6
87.5°	54.5	66.6	63.6	62.6	68.6	125.1	404.6	278.5	412.7	156.4	117.1
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)