

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: P317513

Luminaire Tested: **GAN-SA9A-760-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317513
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-SA9A-760-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43403 lumens
Efficiency: N/A
Efficacy: 149.7 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 290
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

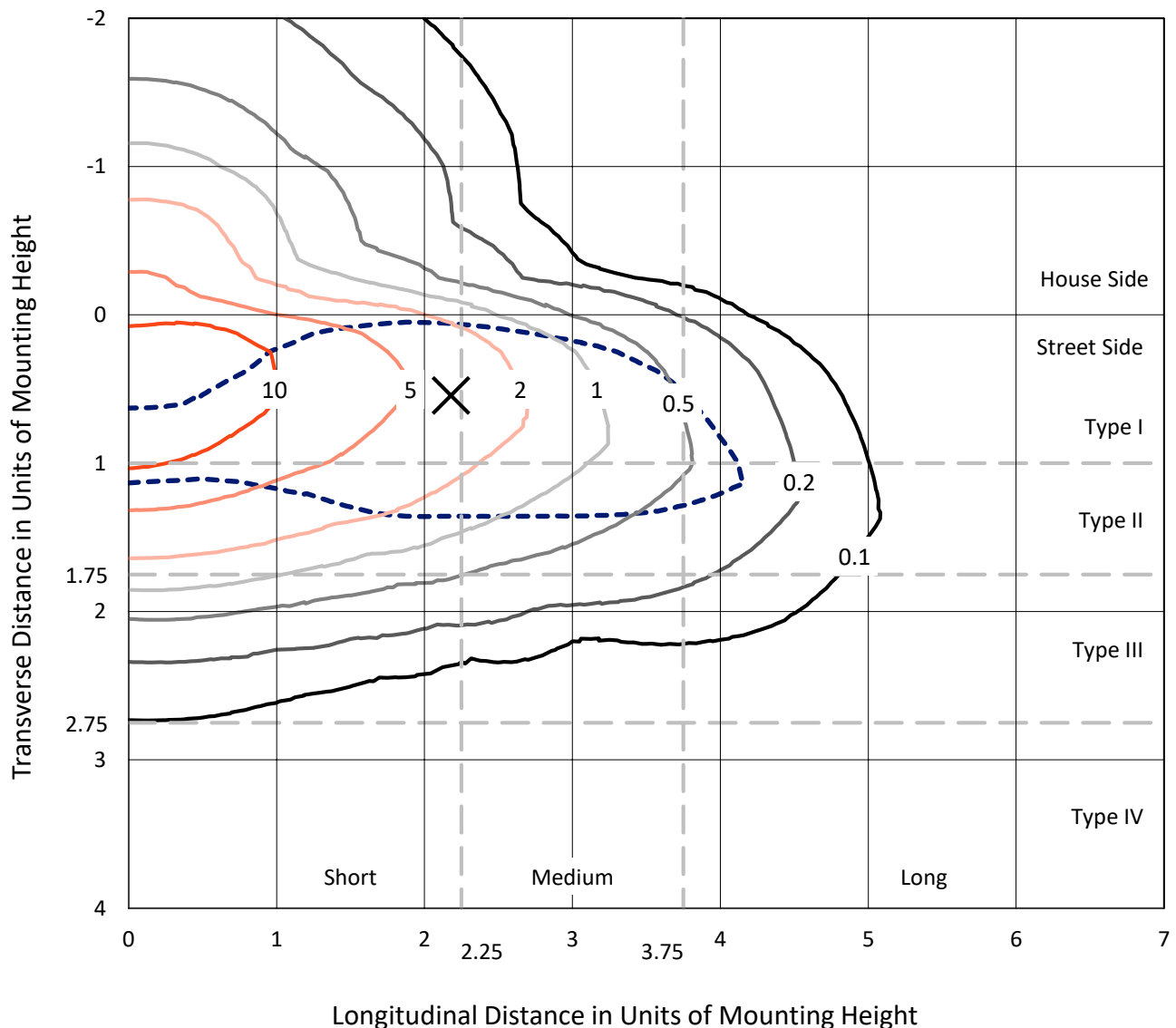


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Iso-Footcandle Lines of Horizontal Illumination

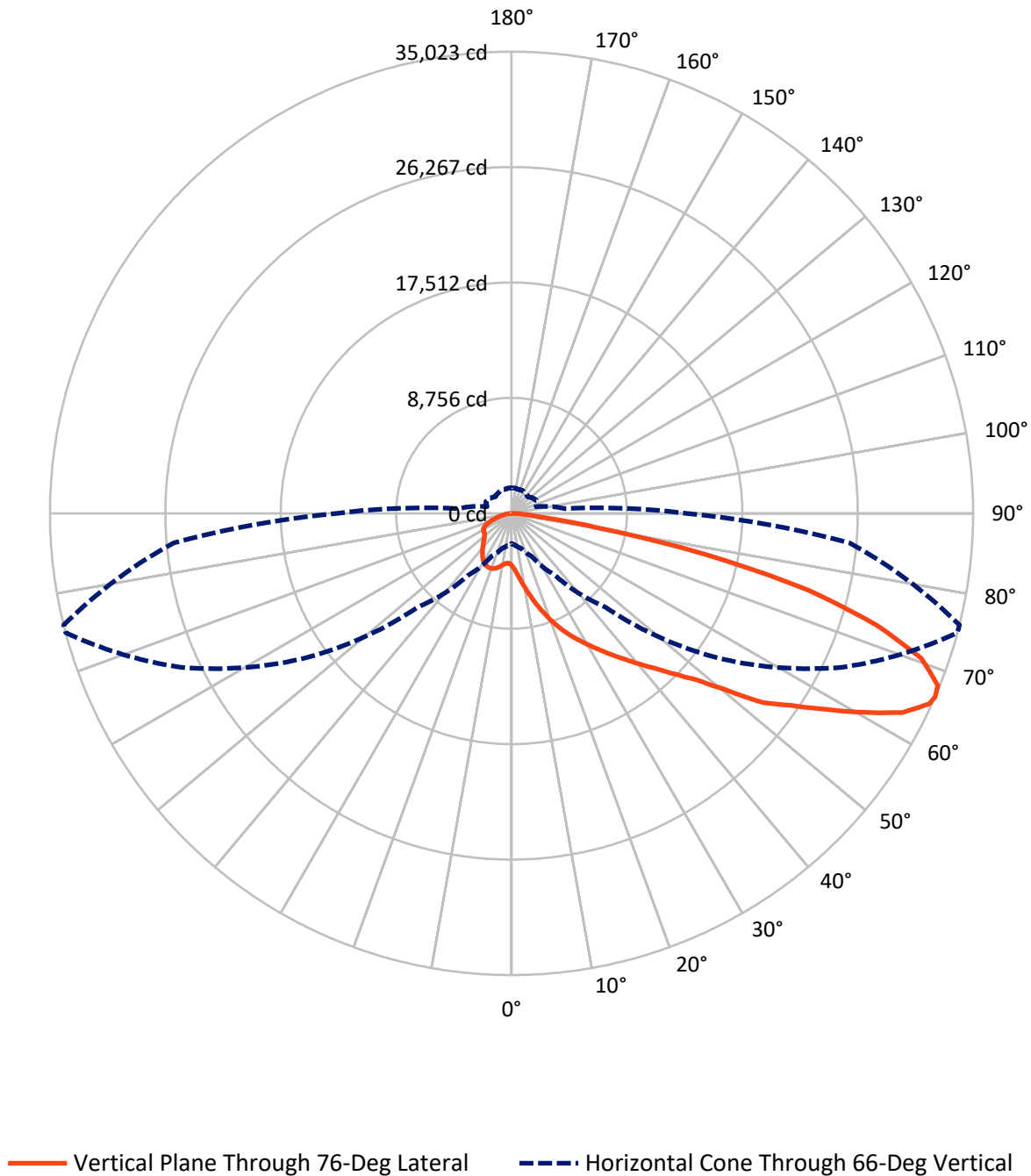
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.8 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	7303.2	0.0	7303.2
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	36099.8	0.0	36099.8
	% Fixture	83.2	0.0	83.2
Total	Lumens	43403.0	0.0	43403.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	479.3	1.1
10°-20°	1892.8	4.4
20°-30°	3678.1	8.5
30°-40°	6003.5	13.8
40°-50°	8202.3	18.9
50°-60°	9554.0	22.0
60°-70°	8565.4	19.7
70°-80°	4328.6	10.0
80°-90°	699.0	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°	43403.0	100.0
0°-180°	43403.0	100.0

Coefficient of Utilization



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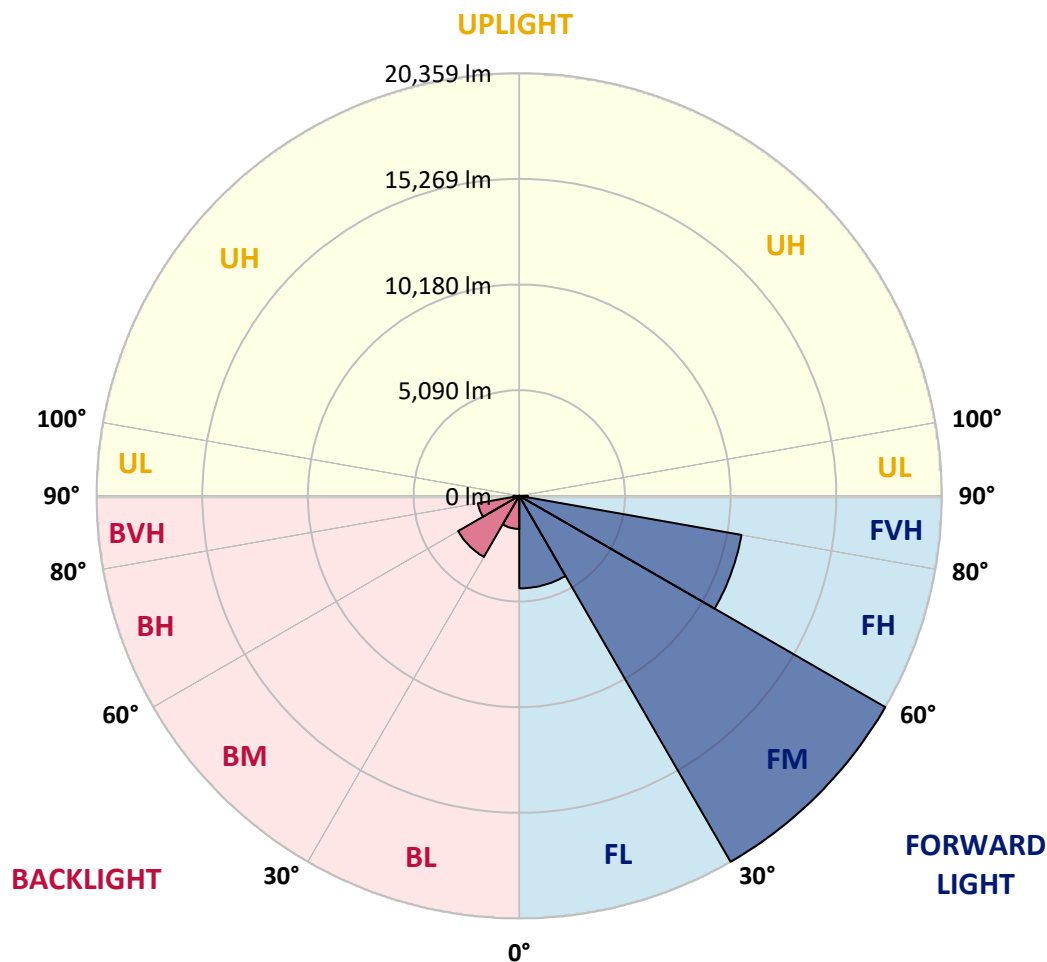
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4457.4	10.3			
FM	(30°-60°)	20359.0	46.9			
FH	(60°-80°)	10870.6	25.0			G4/12000
FVH	(80°-90°)	412.8	1.0			G3/500
BL	(0°-30°)	1592.9	3.7	B3/2500		
BM	(30°-60°)	3400.8	7.8	B3/5000		
BH	(60°-80°)	2023.3	4.7	B3/2500		G3/2500
BVH	(80°-90°)	286.2	0.7			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3963.7	3963.7	3963.7	3963.7	3963.7	3963.7	3963.7	3963.7	3963.7	3963.7	3963.7
2.5°	5261.8	5182.2	5174.9	5058.5	5031.9	4809.5	4645.9	4475.0	4280.5	4242.2	4088.9
5°	6758.9	6751.5	6649.8	6459.8	6310.9	5930.8	5555.0	5157.2	4721.0	4650.3	4305.5
7.5°	8105.6	8093.8	8015.8	7810.9	7595.8	7128.7	6592.4	5982.3	5275.1	5170.5	4598.7
10°	9128.2	9123.8	9097.3	8947.0	8764.3	8316.3	7724.0	6891.5	5919.0	5776.1	4965.6
12.5°	9918.0	9926.9	9944.5	9891.5	9804.6	9422.9	8815.9	7855.1	6605.6	6464.2	5373.8
15°	10452.9	10479.4	10570.8	10645.9	10691.6	10457.3	9869.4	8840.9	7374.8	7205.3	5826.2
17.5°	10722.5	10752.0	10909.7	11136.6	11345.8	11322.3	10855.2	9781.0	8113.0	7949.4	6312.4
20°	10955.4	10977.5	11154.3	11426.9	11796.7	11960.3	11698.0	10685.7	8921.9	8727.4	6828.1
22.5°	11630.2	11658.2	11711.3	11866.0	12193.1	12493.7	12367.0	11541.8	9663.1	9481.9	7317.3
25°	12932.8	12966.7	12851.7	12720.6	12782.5	12991.7	13015.3	12322.7	10414.6	10209.8	7843.4
27.5°	14502.0	14550.7	14354.7	14017.3	13722.6	13641.5	13613.5	12962.2	11132.2	10894.9	8363.5
30°	16038.9	16122.9	15868.0	15430.3	14889.6	14509.4	14228.0	13588.5	11839.4	11612.5	8854.2
32.5°	17540.4	17506.5	17136.6	16709.3	16075.7	15599.8	14919.0	14260.4	12635.1	12374.3	9341.9
35°	18568.8	18580.6	18237.3	17730.4	17126.3	16760.9	15844.4	14985.3	13447.0	13206.8	9895.9
37.5°	19444.1	19389.6	19000.6	18527.6	18007.5	17851.3	16927.4	15784.0	14326.7	14064.4	10485.3
40°	19735.8	19672.5	19417.6	19077.2	18660.2	18646.9	18122.4	16688.7	15321.3	15062.0	11149.9
42.5°	19559.0	19478.0	19373.4	19280.5	19152.3	19211.3	19245.2	17749.6	16414.6	16124.3	11919.0
45°	18906.3	18784.0	18857.7	19059.5	19338.0	19671.0	20258.9	18924.0	17639.1	17396.0	12822.3
47.5°	17902.8	17792.3	18022.2	18453.9	19211.3	20054.1	21218.2	20220.6	19100.8	18859.1	14108.6
50°	16491.2	16523.7	16852.2	17637.6	18782.5	20230.9	22399.9	21937.2	21225.5	21000.1	15863.5
52.5°	14174.9	14180.8	15106.2	16395.5	18022.2	20139.6	23055.6	24131.3	24126.8	23854.2	17534.5
55°	12023.6	12154.8	12887.1	14600.8	16790.4	19774.2	23513.9	25198.1	26032.0	25712.3	19091.9
57.5°	9922.4	9999.1	10693.1	12414.1	15032.5	18800.2	23983.9	26478.5	28227.5	28025.7	21028.1
60°	7532.5	7650.3	8367.9	9957.8	12783.9	17071.8	24028.1	27815.0	30851.8	30648.5	23189.7
62.5°	4889.0	5092.4	5764.3	7254.0	10063.9	14586.0	23002.6	28688.7	33339.1	33266.9	25108.2
65°	2809.9	2963.2	3430.3	4579.6	6943.1	11465.2	20563.9	28352.8	34870.0	34828.7	25825.8
66°	2295.7	2391.5	2749.5	3579.1	5728.9	10068.3	19146.5	27644.0	35021.8	35023.2	25743.2
67.5°	1836.0	1878.7	2039.3	2562.4	4227.4	7980.4	16613.5	26080.7	34833.2	34884.7	25211.3
70°	1519.2	1541.3	1591.4	1718.1	2307.5	4812.4	11792.3	22018.3	32939.7	32979.5	23135.2
72.5°	1363.0	1376.2	1395.4	1413.1	1628.2	2689.1	7202.4	17614.0	28880.3	28931.9	19971.6
75°	1234.8	1242.1	1239.2	1240.7	1365.9	1713.7	3722.0	13150.8	23351.8	23248.6	15299.2
77.5°	1084.5	1091.9	1077.1	1080.1	1208.3	1317.3	1852.2	9206.3	15758.9	15031.0	8619.9
80°	916.5	922.4	916.5	926.8	1052.1	994.6	1077.1	5179.3	6968.1	6590.9	3064.8
82.5°	692.5	717.6	735.3	776.5	866.4	707.3	720.5	2017.2	2121.8	2020.1	940.1
85°	303.5	369.8	554.0	593.8	651.3	424.4	473.0	822.2	863.5	836.9	341.8
87.5°	79.6	86.9	274.1	344.8	361.0	191.6	246.1	374.3	394.9	374.3	113.5
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°	3963.7	3963.7	3963.7	3963.7	3963.7	3963.7	3963.7	3963.7	3963.7	3963.7	3963.7
2.5°	4007.9	3935.7	3806.0	3691.1	3604.1	3545.2	3486.3	3456.8	3439.1	3421.4	3424.4
5°	4136.1	3990.2	3767.7	3610.0	3521.6	3465.6	3436.2	3424.4	3417.0	3399.3	3399.3
7.5°	4329.1	4122.8	3816.3	3654.2	3585.0	3542.3	3524.6	3518.7	3509.8	3489.2	3492.2
10°	4572.2	4283.4	3918.0	3760.3	3697.0	3649.8	3624.8	3615.9	3599.7	3576.1	3579.1
12.5°	4858.1	4482.3	4052.1	3887.1	3810.4	3747.1	3705.8	3680.8	3652.8	3621.8	3623.3
15°	5170.5	4698.9	4196.5	4000.5	3895.9	3807.5	3741.2	3698.4	3654.2	3615.9	3614.5
17.5°	5487.3	4908.2	4307.0	4062.4	3920.9	3804.5	3714.7	3648.3	3593.8	3546.7	3542.3
20°	5829.1	5096.8	4368.9	4056.5	3873.8	3735.3	3615.9	3533.4	3473.0	3425.9	3418.5
22.5°	6176.8	5273.6	4379.2	3996.1	3769.2	3599.7	3474.5	3383.1	3321.2	3272.6	3254.9
25°	6495.1	5410.6	4336.5	3879.7	3623.3	3440.6	3318.3	3225.5	3175.4	3117.9	3100.2
27.5°	6785.4	5506.4	4251.0	3730.9	3459.7	3280.0	3165.0	3085.5	3031.0	2986.8	2972.0
30°	7046.2	5558.0	4111.0	3554.0	3291.8	3128.2	3031.0	2976.4	2929.3	2873.3	2863.0
32.5°	7293.7	5558.0	3931.3	3361.0	3125.3	2994.1	2936.7	2902.8	2849.7	2795.2	2780.5
35°	7541.3	5524.1	3719.1	3159.2	2972.0	2898.3	2895.4	2855.6	2774.6	2700.9	2681.7
37.5°	7802.1	5454.8	3480.4	2970.5	2846.8	2855.6	2880.7	2792.3	2677.3	2572.7	2544.7
40°	8096.8	5359.1	3232.8	2807.0	2742.2	2836.5	2840.9	2700.9	2476.9	2381.2	2356.1
42.5°	8443.1	5263.3	3003.0	2662.6	2659.6	2779.0	2765.7	2503.4	2369.4	2320.7	2307.5
45°	8898.4	5208.8	2784.9	2525.6	2594.8	2686.2	2637.5	2394.4	2338.4	2310.4	2298.6
47.5°	9616.0	5236.8	2584.5	2416.5	2530.0	2593.3	2398.8	2350.2	2310.4	2276.5	2264.7
50°	10514.8	5220.6	2422.4	2341.4	2456.3	2496.1	2291.3	2292.7	2272.1	2233.8	2216.1
52.5°	11191.1	5093.8	2317.8	2298.6	2391.5	2323.7	2223.5	2236.7	2226.4	2170.4	2151.3
55°	11843.9	4984.8	2264.7	2282.4	2344.3	2108.6	2143.9	2176.3	2166.0	2111.5	2102.7
57.5°	12655.8	4964.2	2232.3	2286.8	2304.5	2001.0	2067.3	2110.0	2102.7	2079.1	2074.7
60°	13650.4	4970.1	2202.9	2294.2	2260.3	1921.4	1995.1	2049.6	2054.0	2049.6	2046.7
62.5°	14197.0	4809.5	2129.2	2273.6	2182.2	1852.2	1920.0	1999.5	2001.0	2009.8	2008.4
65°	13732.9	4329.1	1992.2	2201.4	2051.1	1794.7	1855.1	1942.1	1920.0	1959.7	1959.7
66°	13282.0	4052.1	1924.4	2154.2	1995.1	1772.6	1834.5	1912.6	1884.6	1939.1	1939.1
67.5°	12361.1	3585.0	1802.1	2054.0	1915.5	1741.7	1810.9	1864.0	1825.6	1906.7	1900.8
70°	10678.3	2773.1	1556.0	1827.1	1784.4	1696.0	1778.5	1766.7	1710.7	1834.5	1810.9
72.5°	9003.0	2107.1	1249.5	1529.5	1585.5	1638.5	1732.8	1642.9	1572.2	1659.1	1607.6
75°	6985.8	1584.0	987.2	1189.1	1339.4	1548.6	1678.3	1500.0	1398.3	1389.5	1361.5
77.5°	3776.5	1087.4	782.4	907.7	1063.9	1436.6	1641.5	1346.8	1193.5	1158.2	1136.1
80°	1495.6	707.3	568.8	688.1	744.1	1274.6	1553.1	1168.5	984.3	948.9	915.0
82.5°	617.4	418.5	366.9	461.2	484.8	1090.4	1393.9	957.8	760.3	1052.1	1116.9
85°	265.2	229.9	218.1	238.7	274.1	764.7	1109.5	730.8	820.7	732.3	582.0
87.5°	79.6	97.2	92.8	91.4	100.2	182.7	590.9	406.7	602.7	228.4	170.9
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)