

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: P317563

Luminaire Tested: **GAN-SA9B-827-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317563
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-SA9B-827-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39126 lumens
Efficiency: N/A
Efficacy: 104.6 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): 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: 24 FT

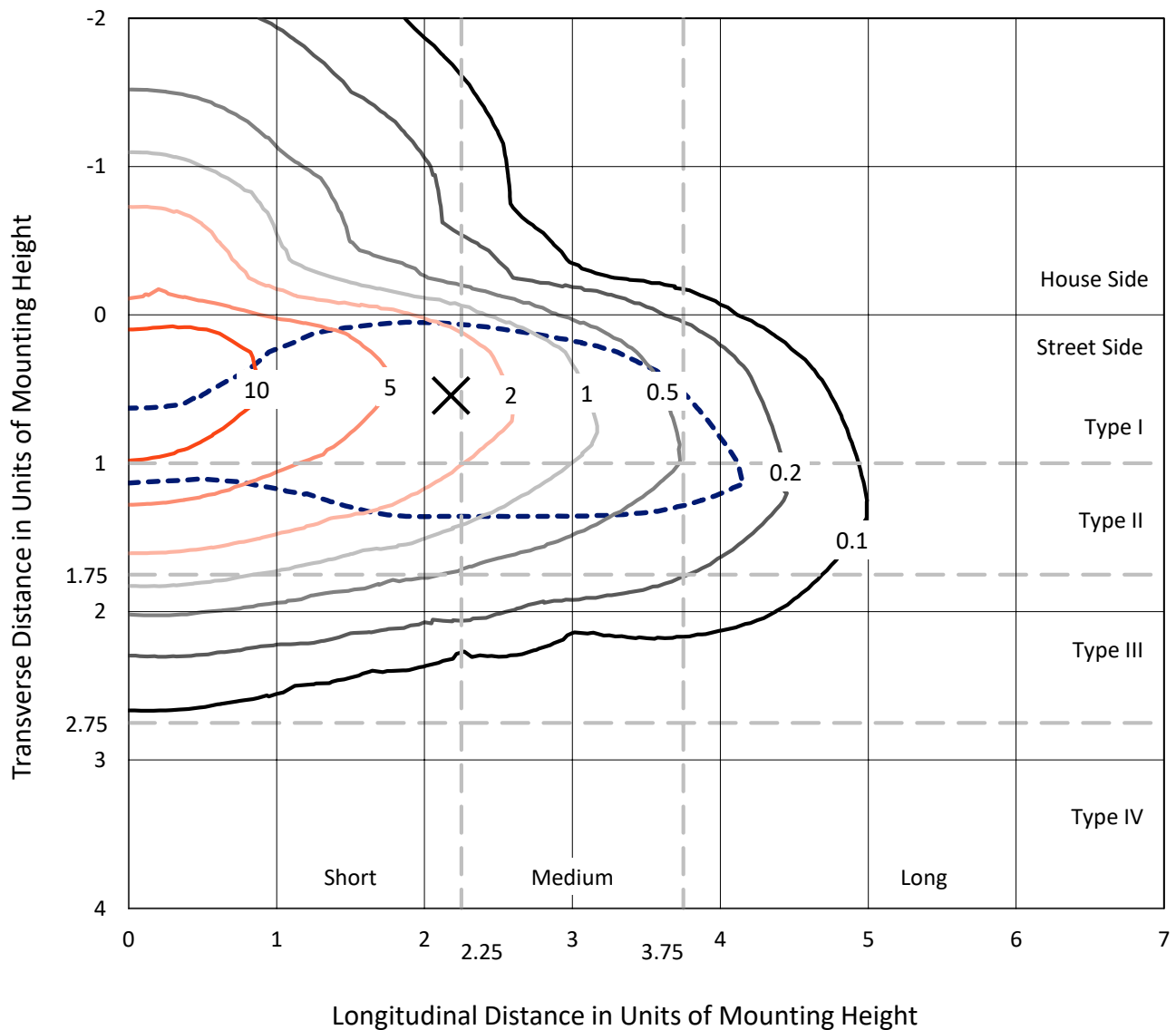


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Iso-Footcandle Lines of Horizontal Illumination

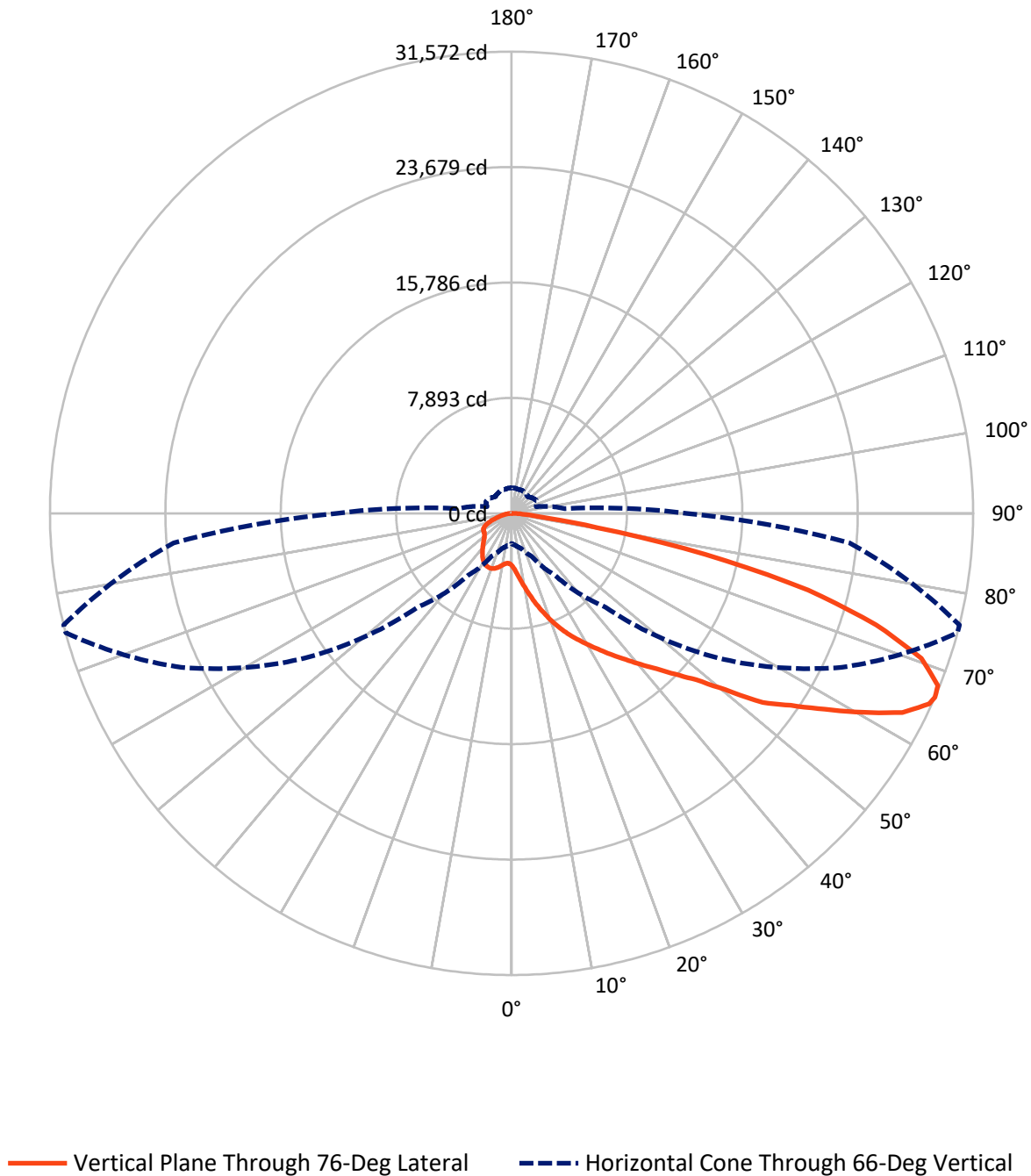
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.2 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	6583.6	0.0	6583.6
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	32542.4	0.0	32542.4
	% Fixture	83.2	0.0	83.2
Total	Lumens	39126.0	0.0	39126.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	432.1	1.1
10°-20°	1706.3	4.4
20°-30°	3315.7	8.5
30°-40°	5411.9	13.8
40°-50°	7394.0	18.9
50°-60°	8612.5	22.0
60°-70°	7721.3	19.7
70°-80°	3902.0	10.0
80°-90°	630.1	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°	39126.0	100.0
0°-180°	39126.0	100.0

Coefficient of Utilization



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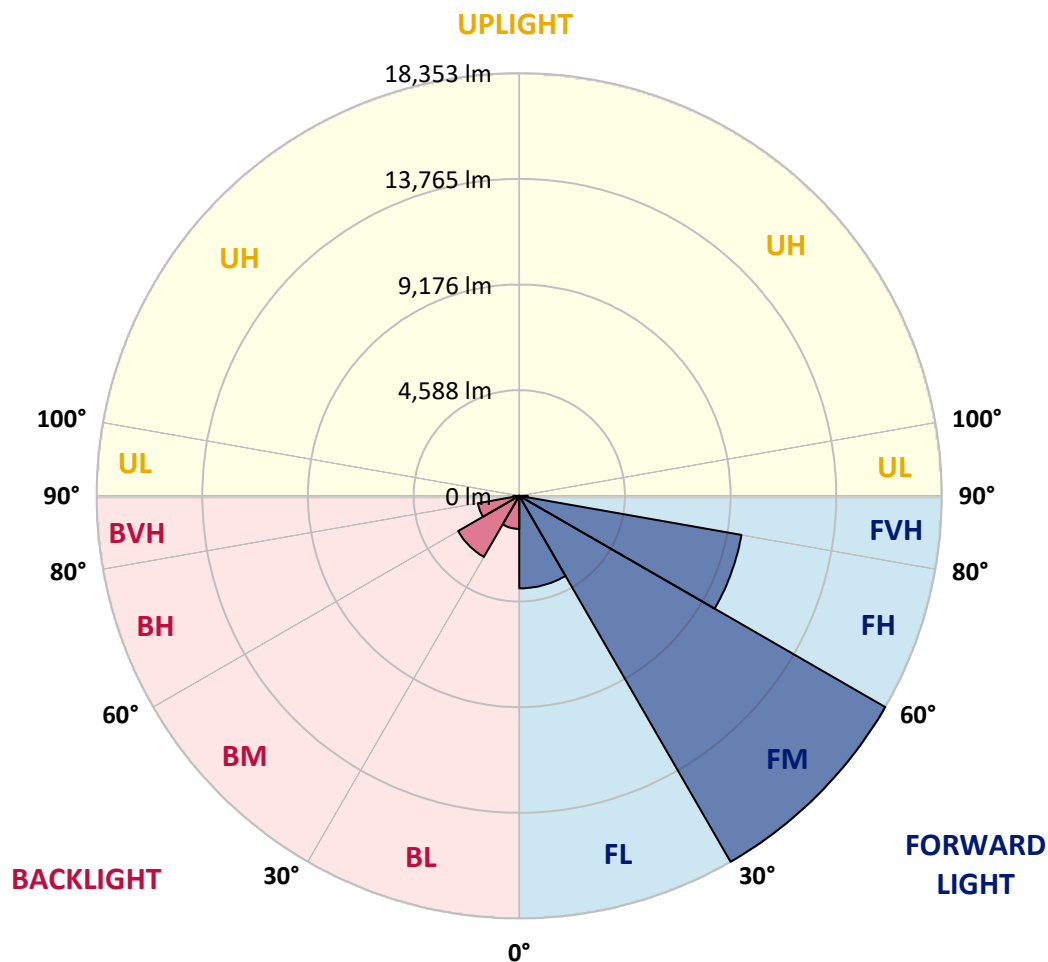
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4018.1	10.3			
FM	(30°-60°)	18352.8	46.9			
FH	(60°-80°)	9799.4	25.0			G4/12000
FVH	(80°-90°)	372.1	1.0			G3/500
BL	(0°-30°)	1435.9	3.7	B3/2500		
BM	(30°-60°)	3065.7	7.8	B3/5000		
BH	(60°-80°)	1824.0	4.7	B3/2500		G3/2500
BVH	(80°-90°)	258.0	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°	3573.1	3573.1	3573.1	3573.1	3573.1	3573.1	3573.1	3573.1	3573.1	3573.1	3573.1
2.5°	4743.3	4671.6	4664.9	4560.0	4536.1	4335.5	4188.1	4034.0	3858.7	3824.1	3686.0
5°	6092.8	6086.2	5994.5	5823.2	5689.0	5346.3	5007.6	4649.0	4255.8	4192.1	3881.2
7.5°	7306.9	7296.3	7225.9	7041.2	6847.3	6426.2	5942.7	5392.8	4755.3	4661.0	4145.6
10°	8228.7	8224.7	8200.8	8065.3	7900.6	7496.8	6962.9	6212.4	5335.7	5206.9	4476.3
12.5°	8940.7	8948.7	8964.6	8916.8	8838.4	8494.4	7947.1	7081.1	5954.7	5827.2	4844.3
15°	9422.9	9446.8	9529.1	9596.9	9638.0	9426.8	8896.9	7969.7	6648.1	6495.3	5252.0
17.5°	9665.9	9692.5	9834.6	10039.2	10227.8	10206.5	9785.5	8817.2	7313.5	7166.1	5690.4
20°	9875.8	9895.7	10055.1	10300.8	10634.2	10781.7	10545.3	9632.7	8042.8	7867.4	6155.3
22.5°	10484.2	10509.4	10557.2	10696.7	10991.6	11262.5	11148.3	10404.5	8710.9	8547.5	6596.3
25°	11658.4	11688.9	11585.3	11467.1	11522.9	11711.5	11732.7	11108.4	9388.3	9203.7	7070.5
27.5°	13073.0	13116.8	12940.2	12636.0	12370.3	12297.3	12272.0	11684.9	10035.2	9821.3	7539.3
30°	14458.4	14534.1	14304.3	13909.8	13422.3	13079.6	12825.9	12249.4	10672.8	10468.2	7981.7
32.5°	15811.9	15781.4	15448.0	15062.8	14491.6	14062.6	13448.9	12855.1	11390.0	11154.9	8421.3
35°	16739.0	16749.7	16440.2	15983.3	15438.7	15109.2	14283.0	13508.7	12121.9	11905.4	8920.8
37.5°	17528.0	17478.9	17128.2	16701.9	16233.0	16092.2	15259.3	14228.6	12914.9	12678.5	9452.1
40°	17791.0	17733.9	17504.1	17197.3	16821.4	16809.4	16336.6	15044.2	13811.5	13577.7	10051.1
42.5°	17631.7	17558.6	17464.3	17380.6	17265.0	17318.2	17348.7	16000.5	14797.1	14535.4	10744.5
45°	17043.2	16933.0	16999.4	17181.4	17432.4	17732.6	18262.6	17059.2	15900.9	15681.7	11558.7
47.5°	16138.7	16039.0	16246.3	16635.4	17318.2	18078.0	19127.3	18228.1	17218.6	17000.7	12718.3
50°	14866.2	14895.4	15191.6	15899.6	16931.6	18237.4	20192.6	19775.5	19133.9	18930.7	14300.3
52.5°	12778.1	12783.4	13617.6	14779.8	16246.3	18155.0	20783.7	21753.3	21749.3	21503.6	15806.6
55°	10838.8	10957.0	11617.2	13162.0	15135.8	17825.6	21196.8	22715.0	23466.8	23178.6	17210.6
57.5°	8944.7	9013.7	9639.4	11190.8	13551.2	16947.6	21620.5	23869.3	25446.0	25264.0	18956.0
60°	6790.2	6896.5	7543.3	8976.5	11524.2	15389.5	21660.3	25074.0	27811.6	27628.3	20904.5
62.5°	4407.2	4590.6	5196.3	6539.1	9072.2	13148.7	20735.9	25861.7	30053.8	29988.7	22634.0
65°	2533.0	2671.2	3092.2	4128.3	6258.9	10335.4	18537.5	25558.9	31433.9	31396.7	23280.8
66°	2069.5	2155.8	2478.6	3226.4	5164.4	9076.2	17259.7	24920.0	31570.7	31572.0	23206.5
67.5°	1655.0	1693.6	1838.3	2309.9	3810.8	7194.0	14976.4	23510.6	31400.7	31447.1	22727.0
70°	1369.5	1389.4	1434.5	1548.8	2080.1	4338.2	10630.3	19848.6	29693.8	29729.7	20855.4
72.5°	1228.7	1240.6	1257.9	1273.8	1467.8	2424.1	6492.7	15878.3	26034.4	26080.9	18003.6
75°	1113.1	1119.7	1117.1	1118.4	1231.3	1544.8	3355.2	11854.9	21050.7	20957.7	13791.6
77.5°	977.6	984.3	971.0	973.6	1089.2	1187.5	1669.7	8299.1	14206.0	13549.8	7770.5
80°	826.2	831.5	826.2	835.5	948.4	896.6	971.0	4668.9	6281.5	5941.4	2762.8
82.5°	624.3	646.9	662.8	700.0	781.0	637.6	649.5	1818.4	1912.7	1821.1	847.4
85°	273.6	333.4	499.4	535.3	587.1	382.5	426.4	741.2	778.4	754.5	308.2
87.5°	71.7	78.4	247.1	310.8	325.4	172.7	221.8	337.4	356.0	337.4	102.3
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°	3573.1	3573.1	3573.1	3573.1	3573.1	3573.1	3573.1	3573.1	3573.1	3573.1	3573.1
2.5°	3612.9	3547.8	3431.0	3327.4	3249.0	3195.9	3142.7	3116.2	3100.2	3084.3	3086.9
5°	3728.5	3597.0	3396.4	3254.3	3174.6	3124.1	3097.6	3086.9	3080.3	3064.4	3064.4
7.5°	3902.5	3716.5	3440.3	3294.1	3231.7	3193.2	3177.3	3171.9	3164.0	3145.4	3148.0
10°	4121.7	3861.3	3531.9	3389.8	3332.7	3290.2	3267.6	3259.6	3245.0	3223.7	3226.4
12.5°	4379.4	4040.6	3652.8	3504.0	3434.9	3377.8	3340.6	3318.1	3292.8	3264.9	3266.3
15°	4661.0	4235.9	3783.0	3606.3	3512.0	3432.3	3372.5	3334.0	3294.1	3259.6	3258.3
17.5°	4946.5	4424.5	3882.6	3662.1	3534.6	3429.6	3348.6	3288.8	3239.7	3197.2	3193.2
20°	5254.7	4594.5	3938.4	3656.8	3492.1	3367.2	3259.6	3185.2	3130.8	3088.3	3081.6
22.5°	5568.2	4753.9	3947.7	3602.3	3397.8	3245.0	3132.1	3049.7	2994.0	2950.1	2934.2
25°	5855.1	4877.5	3909.1	3497.4	3266.3	3101.5	2991.3	2907.6	2862.5	2810.7	2794.7
27.5°	6116.8	4963.8	3832.1	3363.2	3118.8	2956.8	2853.2	2781.4	2732.3	2692.4	2679.2
30°	6351.9	5010.3	3705.9	3203.8	2967.4	2819.9	2732.3	2683.1	2640.6	2590.2	2580.9
32.5°	6575.0	5010.3	3543.9	3029.8	2817.3	2699.1	2647.3	2616.7	2568.9	2519.8	2506.5
35°	6798.2	4979.7	3352.6	2847.8	2679.2	2612.7	2610.1	2574.2	2501.2	2434.7	2417.5
37.5°	7033.3	4917.3	3137.4	2677.8	2566.2	2574.2	2596.8	2517.1	2413.5	2319.2	2293.9
40°	7298.9	4831.0	2914.3	2530.4	2471.9	2556.9	2560.9	2434.7	2232.8	2146.5	2123.9
42.5°	7611.1	4744.6	2707.0	2400.2	2397.6	2505.1	2493.2	2256.8	2135.9	2092.0	2080.1
45°	8021.5	4695.5	2510.5	2276.7	2339.1	2421.5	2377.6	2158.5	2108.0	2082.8	2072.1
47.5°	8668.4	4720.7	2329.8	2178.4	2280.7	2337.8	2162.4	2118.6	2082.8	2052.2	2041.6
50°	9478.6	4706.1	2183.7	2110.6	2214.3	2250.1	2065.5	2066.8	2048.2	2013.7	1997.7
52.5°	10088.3	4591.9	2089.4	2072.1	2155.8	2094.7	2004.4	2016.3	2007.0	1956.6	1939.3
55°	10676.8	4493.6	2041.6	2057.5	2113.3	1900.8	1932.7	1961.9	1952.6	1903.4	1895.5
57.5°	11408.6	4475.0	2012.4	2061.5	2077.4	1803.8	1863.6	1902.1	1895.5	1874.2	1870.2
60°	12305.2	4480.3	1985.8	2068.1	2037.6	1732.1	1798.5	1847.6	1851.6	1847.6	1845.0
62.5°	12798.0	4335.5	1919.4	2049.5	1967.2	1669.7	1730.8	1802.5	1803.8	1811.8	1810.5
65°	12379.6	3902.5	1795.8	1984.5	1849.0	1617.9	1672.3	1750.7	1730.8	1766.6	1766.6
66°	11973.2	3652.8	1734.7	1942.0	1798.5	1597.9	1653.7	1724.1	1698.9	1748.0	1748.0
67.5°	11143.0	3231.7	1624.5	1851.6	1726.8	1570.0	1632.5	1680.3	1645.7	1718.8	1713.5
70°	9626.1	2499.8	1402.7	1647.1	1608.6	1528.9	1603.2	1592.6	1542.1	1653.7	1632.5
72.5°	8115.8	1899.4	1126.4	1378.8	1429.2	1477.1	1562.1	1481.0	1417.3	1495.6	1449.2
75°	6297.4	1427.9	890.0	1071.9	1207.4	1396.0	1512.9	1352.2	1260.5	1252.6	1227.3
77.5°	3404.4	980.3	705.3	818.2	959.0	1295.1	1479.7	1214.1	1075.9	1044.0	1024.1
80°	1348.2	637.6	512.7	620.3	670.8	1149.0	1400.0	1053.3	887.3	855.4	824.9
82.5°	556.6	377.2	330.7	415.8	437.0	982.9	1256.6	863.4	685.4	948.4	1006.8
85°	239.1	207.2	196.6	215.2	247.1	689.4	1000.2	658.8	739.9	660.2	524.7
87.5°	71.7	87.7	83.7	82.4	90.3	164.7	532.6	366.6	543.3	205.9	154.1
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)