

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: P317512

Luminaire Tested: **GAN-SA8A-760-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317512
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-SA8A-760-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 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: 38909 lumens
Efficiency: N/A
Efficacy: 151.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 257
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

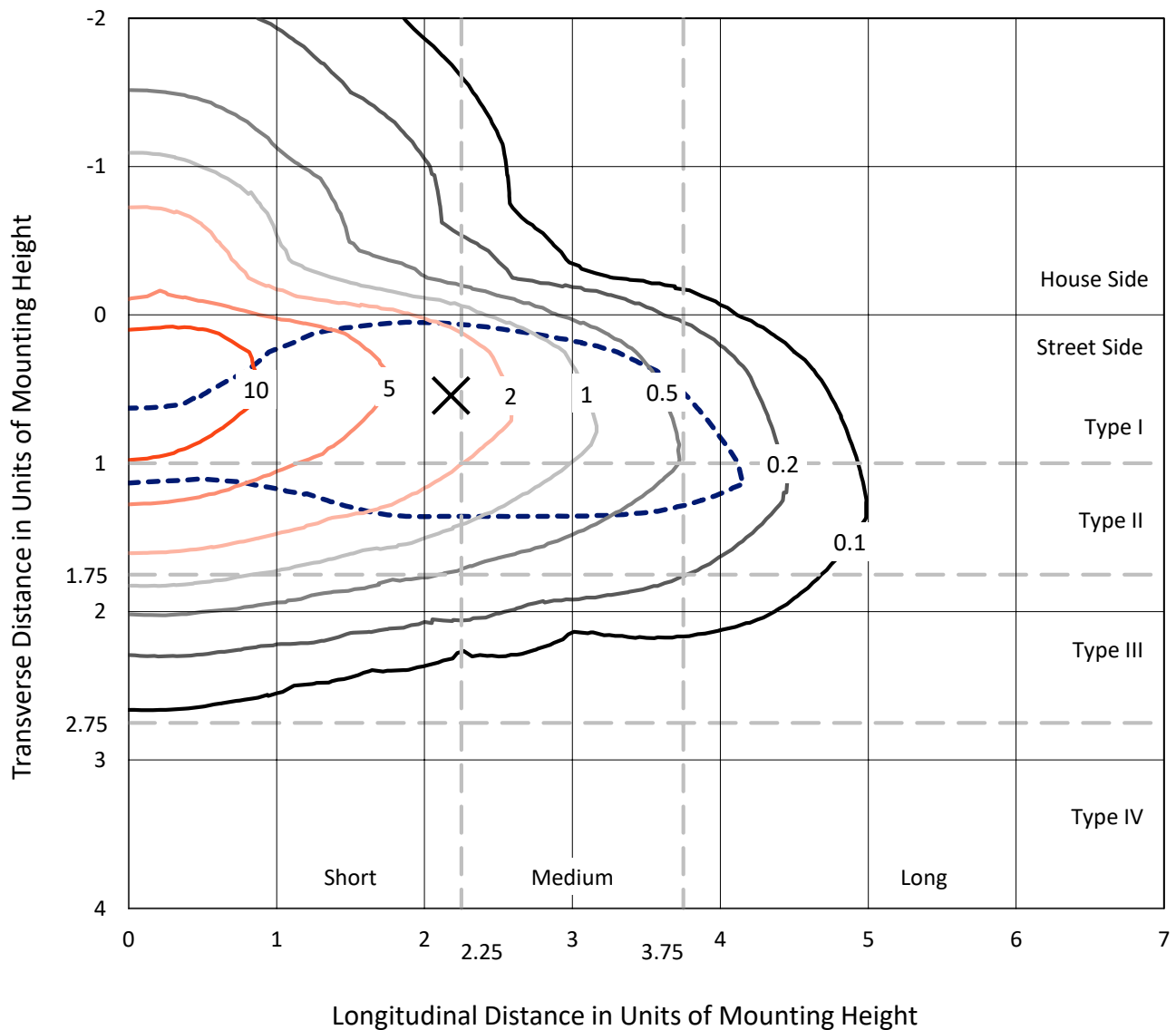


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Iso-Footcandle Lines of Horizontal Illumination

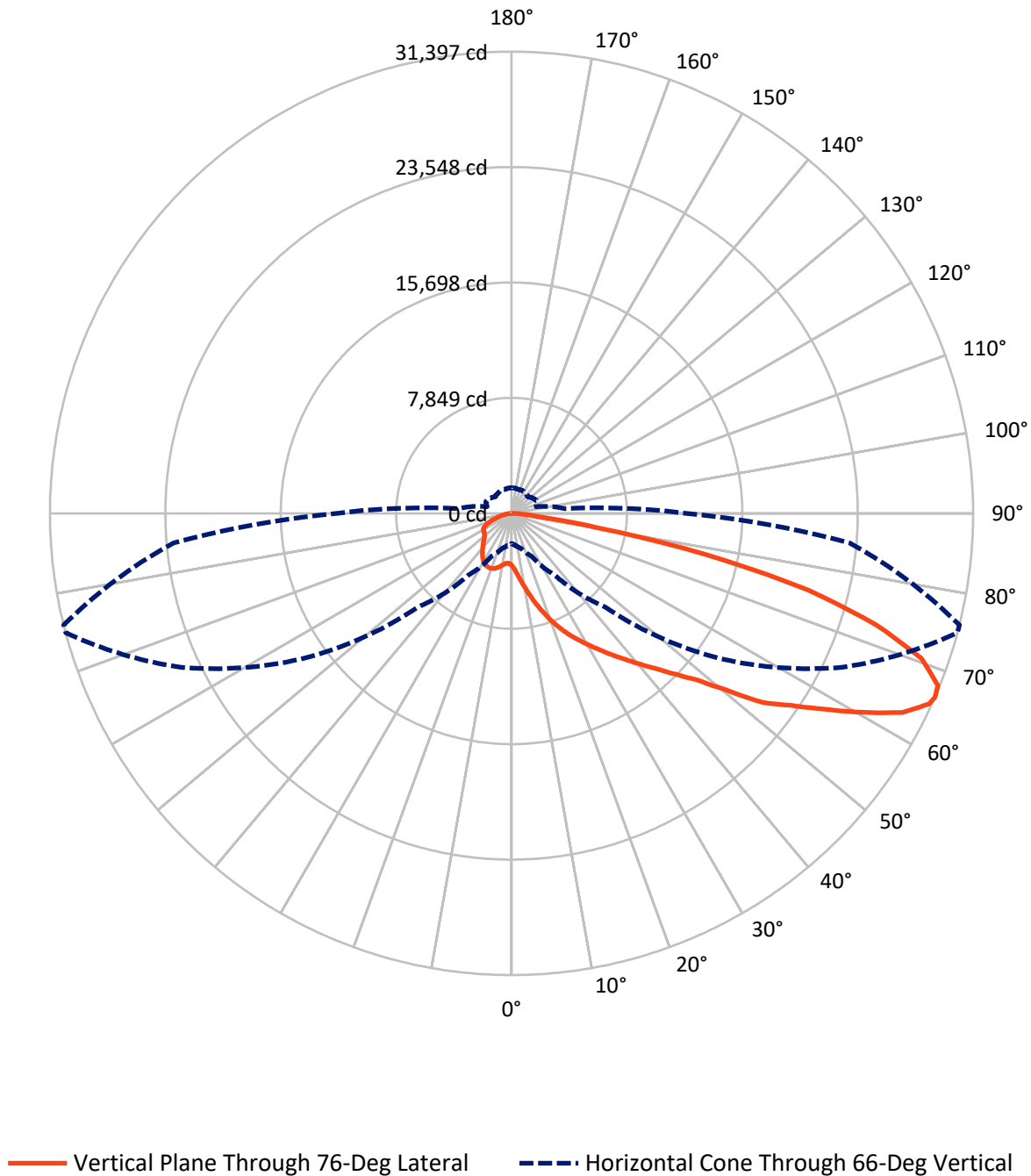
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.1 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	6547.1	0.0	6547.1
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	32361.9	0.0	32361.9
	% Fixture	83.2	0.0	83.2
Total	Lumens	38909.0	0.0	38909.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	429.7	1.1
10°-20°	1696.8	4.4
20°-30°	3297.3	8.5
30°-40°	5381.9	13.8
40°-50°	7353.0	18.9
50°-60°	8564.8	22.0
60°-70°	7678.5	19.7
70°-80°	3880.4	10.0
80°-90°	626.6	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°	38909.0	100.0
0°-180°	38909.0	100.0

Coefficient of Utilization



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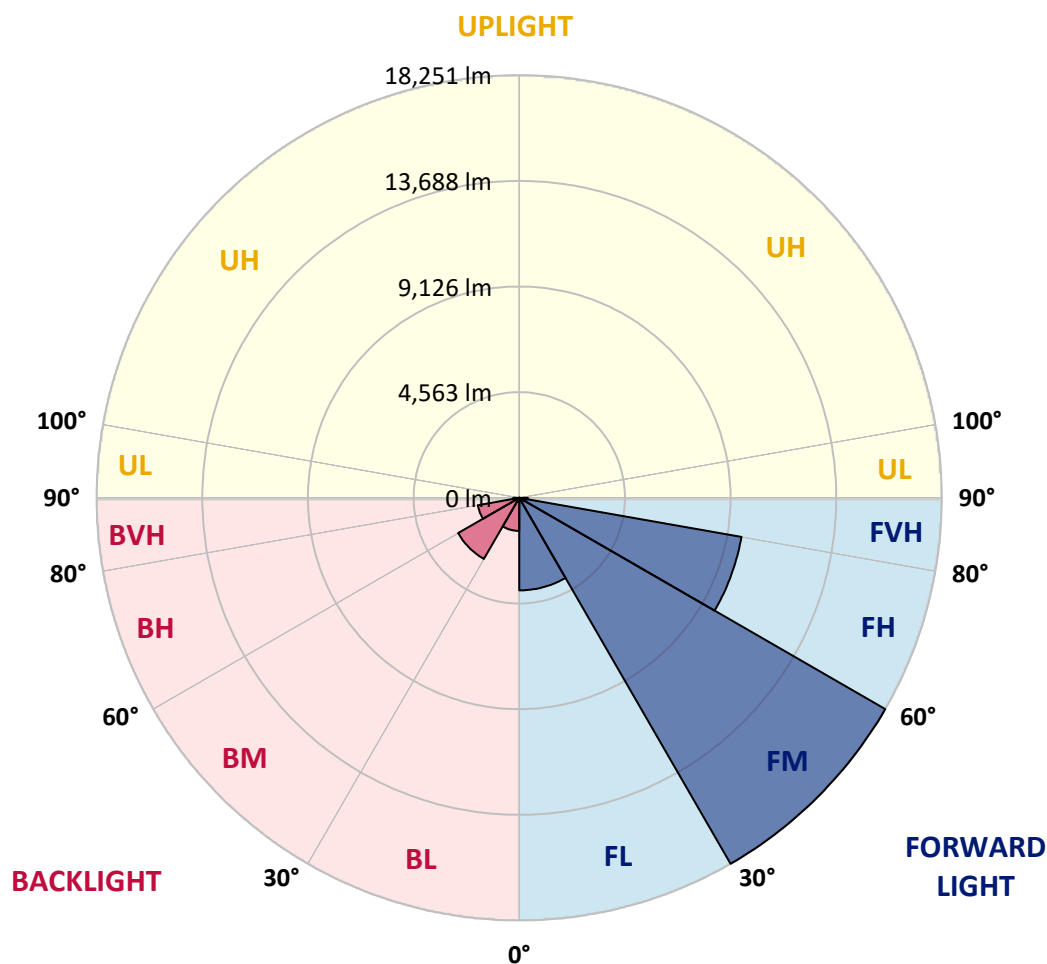
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3995.9	10.3			
FM	(30°-60°)	18251.0	46.9			
FH	(60°-80°)	9745.0	25.0			G4/12000
FVH	(80°-90°)	370.1	1.0			G3/500
BL	(0°-30°)	1427.9	3.7	B3/2500		
BM	(30°-60°)	3048.7	7.8	B3/5000		
BH	(60°-80°)	1813.8	4.7	B3/2500		G3/2500
BVH	(80°-90°)	256.6	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°	3553.3	3553.3	3553.3	3553.3	3553.3	3553.3	3553.3	3553.3	3553.3	3553.3	3553.3
2.5°	4717.0	4645.7	4639.1	4534.7	4510.9	4311.5	4164.9	4011.6	3837.3	3802.9	3665.5
5°	6059.1	6052.4	5961.3	5790.9	5657.5	5316.7	4979.9	4623.2	4232.2	4168.8	3859.7
7.5°	7266.4	7255.8	7185.8	7002.2	6809.3	6390.6	5909.8	5362.9	4728.9	4635.1	4122.6
10°	8183.1	8179.1	8155.3	8020.6	7856.8	7455.3	6924.3	6177.9	5306.1	5178.0	4451.5
12.5°	8891.1	8899.0	8914.9	8867.3	8789.4	8447.3	7903.1	7041.8	5921.7	5794.9	4817.4
15°	9370.6	9394.4	9476.3	9543.6	9584.6	9374.6	8847.5	7925.5	6611.2	6459.3	5222.9
17.5°	9612.3	9638.7	9780.1	9983.5	10171.1	10149.9	9731.2	8768.3	7273.0	7126.4	5658.8
20°	9821.0	9840.8	9999.3	10243.7	10575.3	10721.9	10486.8	9579.3	7998.2	7823.8	6121.1
22.5°	10426.0	10451.1	10498.7	10637.4	10930.6	11200.1	11086.5	10346.8	8662.6	8500.1	6559.7
25°	11593.7	11624.1	11521.0	11403.5	11459.0	11646.5	11667.7	11046.8	9336.2	9152.6	7031.2
27.5°	13000.5	13044.1	12868.4	12565.9	12301.7	12229.1	12204.0	11620.1	9979.5	9766.9	7497.5
30°	14378.2	14453.5	14225.0	13832.7	13347.9	13007.1	12754.8	12181.5	10613.6	10410.2	7937.4
32.5°	15724.2	15693.8	15362.3	14979.2	14411.2	13984.6	13374.3	12783.8	11326.9	11093.1	8374.6
35°	16646.2	16656.8	16349.0	15894.6	15353.0	15025.4	14203.8	13433.7	12054.7	11839.4	8871.3
37.5°	17430.8	17382.0	17033.2	16609.2	16142.9	16002.9	15174.7	14149.7	12843.3	12608.2	9399.7
40°	17692.4	17635.6	17407.1	17101.9	16728.1	16716.2	16246.0	14960.7	13734.9	13502.4	9995.4
42.5°	17533.9	17461.2	17367.4	17284.2	17169.3	17222.1	17252.5	15911.8	14715.0	14454.8	10684.9
45°	16948.7	16839.1	16905.1	17086.1	17335.7	17634.3	18161.3	16964.5	15812.7	15594.8	11494.6
47.5°	16049.2	15950.1	16156.1	16543.2	17222.1	17977.7	19021.2	18127.0	17123.1	16906.4	12647.8
50°	14783.7	14812.8	15107.3	15811.4	16837.7	18136.2	20080.6	19665.8	19027.8	18825.7	14221.0
52.5°	12707.2	12712.5	13542.1	14697.9	16156.1	18054.3	20668.4	21632.7	21628.7	21384.3	15718.9
55°	10778.7	10896.3	11552.7	13089.0	15051.9	17726.7	21079.2	22589.0	23336.7	23050.0	17115.1
57.5°	8895.1	8963.7	9585.9	11128.7	13476.0	16853.6	21500.6	23736.9	25304.8	25123.9	18850.8
60°	6752.5	6858.2	7501.5	8926.8	11460.3	15304.2	21540.2	24935.0	27657.4	27475.1	20788.6
62.5°	4382.8	4565.1	5167.4	6502.9	9021.9	13075.8	20620.8	25718.3	29887.1	29822.4	22508.4
65°	2519.0	2656.4	3075.1	4105.4	6224.2	10278.1	18434.7	25417.1	31259.5	31222.5	23151.7
66°	2058.0	2143.8	2464.8	3208.5	5135.7	9025.8	17164.0	24781.7	31395.6	31396.9	23077.8
67.5°	1645.9	1684.2	1828.2	2297.1	3789.7	7154.1	14893.3	23380.2	31226.5	31272.7	22600.9
70°	1361.9	1381.7	1426.6	1540.2	2068.6	4314.1	10571.3	19738.5	29529.1	29564.8	20739.7
72.5°	1221.8	1233.7	1250.9	1266.8	1459.6	2410.7	6456.6	15790.3	25890.0	25936.2	17903.7
75°	1106.9	1113.5	1110.9	1112.2	1224.5	1536.2	3336.6	11789.2	20933.9	20841.4	13715.1
77.5°	972.2	978.8	965.6	968.2	1083.2	1180.9	1660.4	8253.1	14127.2	13474.7	7727.4
80°	821.6	826.9	821.6	830.9	943.1	891.6	965.6	4643.0	6246.6	5908.5	2747.5
82.5°	620.8	643.3	659.1	696.1	776.7	634.0	645.9	1808.3	1902.1	1811.0	842.7
85°	272.1	331.6	496.7	532.3	583.8	380.4	424.0	737.1	774.1	750.3	306.5
87.5°	71.3	77.9	245.7	309.1	323.6	171.7	220.6	335.5	354.0	335.5	101.7
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°	3553.3	3553.3	3553.3	3553.3	3553.3	3553.3	3553.3	3553.3	3553.3	3553.3	3553.3
2.5°	3592.9	3528.2	3411.9	3308.9	3231.0	3178.1	3125.3	3098.9	3083.0	3067.2	3069.8
5°	3707.8	3577.0	3377.6	3236.2	3157.0	3106.8	3080.4	3069.8	3063.2	3047.4	3047.4
7.5°	3880.9	3695.9	3421.2	3275.9	3213.8	3175.5	3159.6	3154.4	3146.4	3127.9	3130.6
10°	4098.8	3839.9	3512.3	3371.0	3314.2	3271.9	3249.5	3241.5	3227.0	3205.9	3208.5
12.5°	4355.1	4018.2	3632.5	3484.6	3415.9	3359.1	3322.1	3299.7	3274.6	3246.8	3248.1
15°	4635.1	4212.4	3762.0	3586.3	3492.5	3413.3	3353.8	3315.5	3275.9	3241.5	3240.2
17.5°	4919.1	4400.0	3861.0	3641.8	3515.0	3410.6	3330.0	3270.6	3221.7	3179.4	3175.5
20°	5225.6	4569.1	3916.5	3636.5	3472.7	3348.5	3241.5	3167.6	3113.4	3071.1	3064.5
22.5°	5537.3	4727.6	3925.8	3582.3	3378.9	3227.0	3114.7	3032.8	2977.3	2933.8	2917.9
25°	5822.6	4850.4	3887.5	3478.0	3248.1	3084.3	2974.7	2891.5	2846.6	2795.1	2779.2
27.5°	6082.8	4936.3	3810.8	3344.6	3101.5	2940.4	2837.3	2766.0	2717.1	2677.5	2664.3
30°	6316.6	4982.5	3685.4	3186.1	2950.9	2804.3	2717.1	2668.3	2626.0	2575.8	2566.5
32.5°	6538.5	4982.5	3524.2	3013.0	2801.7	2684.1	2632.6	2602.2	2554.7	2505.8	2492.6
35°	6760.5	4952.1	3334.0	2832.0	2664.3	2598.2	2595.6	2559.9	2487.3	2421.2	2404.1
37.5°	6994.3	4890.0	3120.0	2663.0	2552.0	2559.9	2582.4	2503.1	2400.1	2306.3	2281.2
40°	7258.4	4804.2	2898.1	2516.3	2458.2	2542.8	2546.7	2421.2	2220.5	2134.6	2112.1
42.5°	7568.9	4718.3	2692.0	2386.9	2384.3	2491.3	2479.4	2244.2	2124.0	2080.4	2068.6
45°	7977.0	4669.4	2496.5	2264.1	2326.1	2408.0	2364.4	2146.5	2096.3	2071.2	2060.6
47.5°	8620.3	4694.5	2316.9	2166.3	2268.0	2324.8	2150.5	2106.9	2071.2	2040.8	2030.3
50°	9426.1	4680.0	2171.6	2098.9	2202.0	2237.6	2054.0	2055.3	2036.9	2002.5	1986.7
52.5°	10032.4	4566.4	2077.8	2060.6	2143.8	2083.1	1993.3	2005.2	1995.9	1945.7	1928.5
55°	10617.5	4468.7	2030.3	2046.1	2101.6	1890.2	1921.9	1951.0	1941.7	1892.9	1884.9
57.5°	11345.4	4450.2	2001.2	2050.1	2065.9	1793.8	1853.2	1891.6	1884.9	1863.8	1859.9
60°	12237.0	4455.5	1974.8	2056.7	2026.3	1722.5	1788.5	1837.4	1841.4	1837.4	1834.8
62.5°	12727.0	4311.5	1908.7	2038.2	1956.3	1660.4	1721.2	1792.5	1793.8	1801.7	1800.4
65°	12311.0	3880.9	1785.9	1973.5	1838.7	1608.9	1663.0	1741.0	1721.2	1756.8	1756.8
66°	11906.8	3632.5	1725.1	1931.2	1788.5	1589.1	1644.5	1714.6	1689.5	1738.3	1738.3
67.5°	11081.2	3213.8	1615.5	1841.4	1717.2	1561.3	1623.4	1671.0	1636.6	1709.3	1704.0
70°	9572.7	2486.0	1394.9	1637.9	1599.6	1520.4	1594.3	1583.8	1533.6	1644.5	1623.4
72.5°	8070.8	1888.9	1120.1	1371.1	1421.3	1468.9	1553.4	1472.8	1409.4	1487.4	1441.1
75°	6262.5	1420.0	885.0	1066.0	1200.7	1388.3	1504.5	1344.7	1253.6	1245.6	1220.5
77.5°	3385.5	974.8	701.4	813.7	953.7	1287.9	1471.5	1207.3	1069.9	1038.2	1018.4
80°	1340.7	634.0	509.9	616.9	667.1	1142.6	1392.2	1047.5	882.4	850.7	820.3
82.5°	553.5	375.1	328.9	413.4	434.6	977.5	1249.6	858.6	681.6	943.1	1001.3
85°	237.8	206.1	195.5	214.0	245.7	685.6	994.7	655.2	735.8	656.5	521.8
87.5°	71.3	87.2	83.2	81.9	89.8	163.8	529.7	364.6	540.3	204.7	153.2
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)