

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: P317571

Luminaire Tested: **GAN-SA7C-827-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317571
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-SA7C-827-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 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: 38316 lumens
Efficiency: N/A
Efficacy: 98.0 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): 391
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

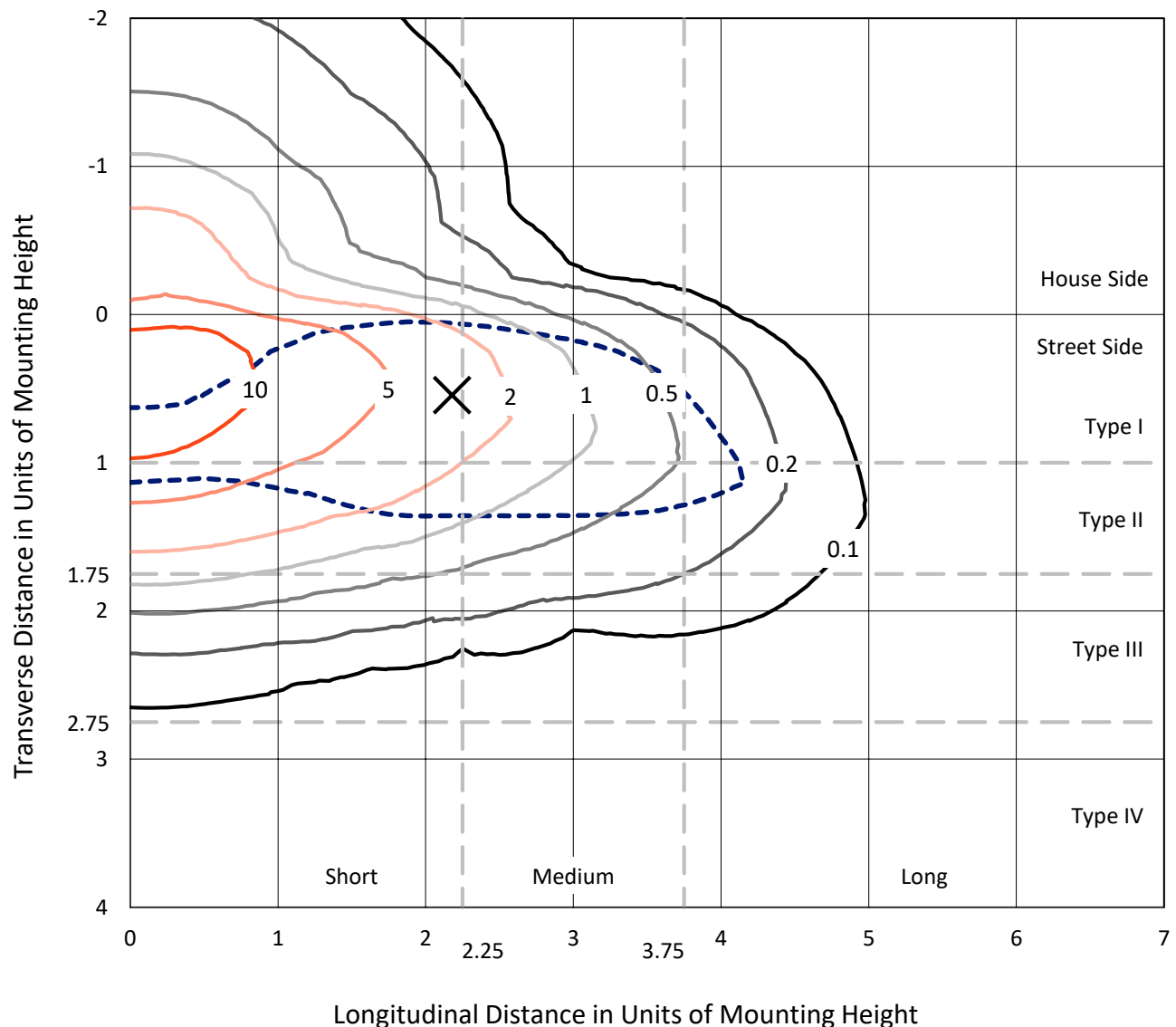


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Iso-Footcandle Lines of Horizontal Illumination

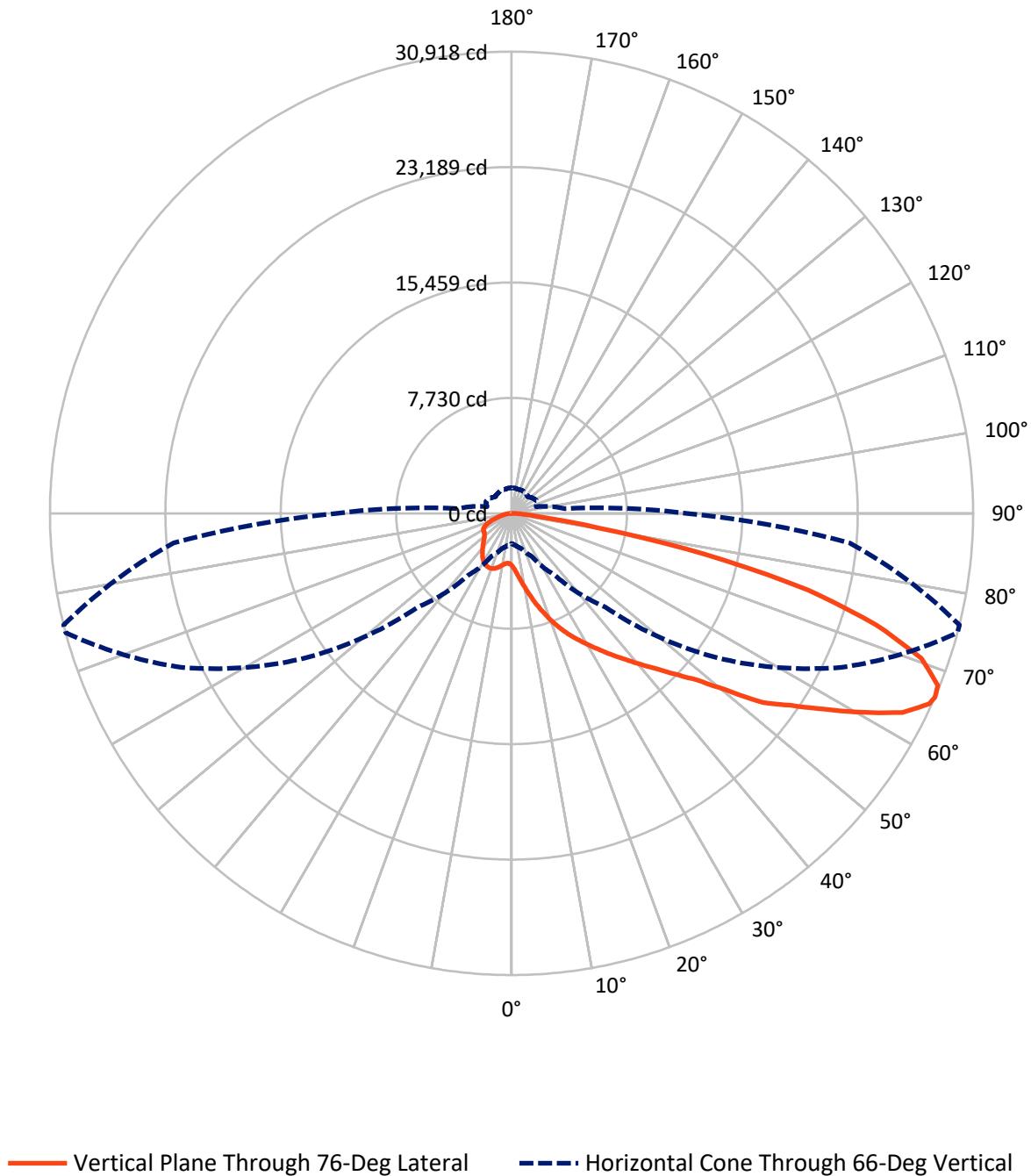
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.9 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	6447.3	0.0	6447.3
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	31868.7	0.0	31868.7
	% Fixture	83.2	0.0	83.2
Total	Lumens	38316.0	0.0	38316.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	423.1	1.1
10°-20°	1670.9	4.4
20°-30°	3247.0	8.5
30°-40°	5299.9	13.8
40°-50°	7240.9	18.9
50°-60°	8434.2	22.0
60°-70°	7561.5	19.7
70°-80°	3821.2	10.0
80°-90°	617.1	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°	38316.0	100.0
0°-180°	38316.0	100.0

Coefficient of Utilization



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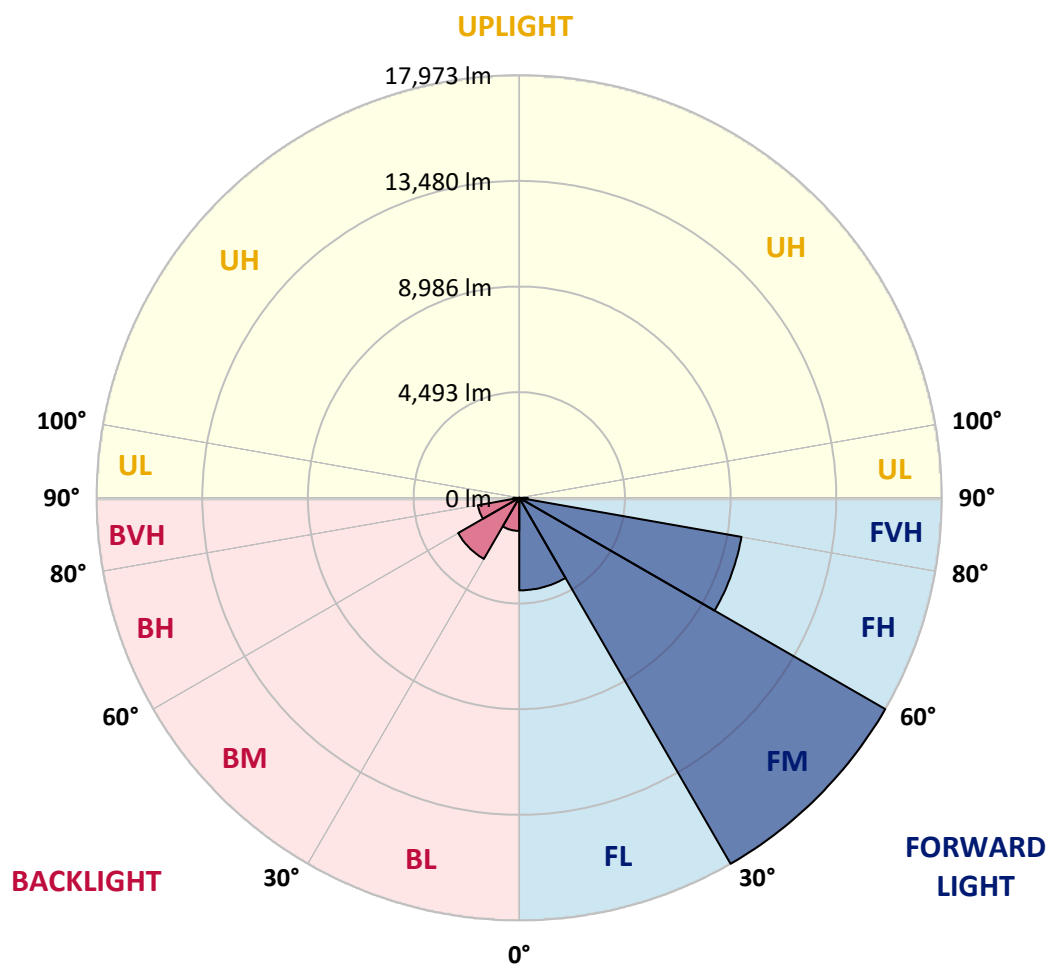
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3935.0	10.3			
FM	(30°-60°)	17972.9	46.9			
FH	(60°-80°)	9596.5	25.0			G4/12000
FVH	(80°-90°)	364.4	1.0			G3/500
BL	(0°-30°)	1406.2	3.7	B3/2500		
BM	(30°-60°)	3002.2	7.8	B3/5000		
BH	(60°-80°)	1786.2	4.7	B3/2500		G3/2500
BVH	(80°-90°)	252.7	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°	3499.1	3499.1	3499.1	3499.1	3499.1	3499.1	3499.1	3499.1	3499.1	3499.1	3499.1
2.5°	4645.1	4574.9	4568.4	4465.6	4442.2	4245.8	4101.4	3950.5	3778.8	3745.0	3609.7
5°	5966.7	5960.2	5870.4	5702.6	5571.3	5235.7	4904.0	4552.8	4167.7	4105.3	3800.9
7.5°	7155.6	7145.2	7076.3	6895.5	6705.6	6293.2	5819.7	5281.2	4656.8	4564.5	4059.8
10°	8058.4	8054.5	8031.1	7898.4	7737.1	7341.6	6818.7	6083.8	5225.3	5099.1	4383.6
12.5°	8755.6	8763.4	8779.0	8732.2	8655.4	8318.5	7782.6	6934.5	5831.4	5706.5	4744.0
15°	9227.8	9251.2	9331.8	9398.2	9438.5	9231.7	8712.7	7804.7	6510.4	6360.8	5143.3
17.5°	9465.8	9491.8	9631.0	9831.3	10016.1	9995.2	9582.9	8634.6	7162.1	7017.7	5572.6
20°	9671.3	9690.9	9847.0	10087.6	10414.1	10558.5	10326.9	9433.3	7876.3	7704.6	6027.8
22.5°	10267.1	10291.8	10338.6	10475.2	10764.0	11029.4	10917.5	10189.1	8530.6	8370.6	6459.7
25°	11417.0	11446.9	11345.5	11229.7	11284.3	11469.0	11489.8	10878.5	9194.0	9013.1	6924.1
27.5°	12802.3	12845.3	12672.3	12374.4	12114.2	12042.7	12018.0	11443.0	9827.4	9618.0	7383.3
30°	14159.1	14233.2	14008.2	13621.8	13144.4	12808.8	12560.4	11995.9	10451.8	10251.5	7816.4
32.5°	15484.6	15454.6	15128.1	14750.9	14191.6	13771.4	13170.5	12589.0	11154.2	10924.0	8247.0
35°	16392.5	16402.9	16099.8	15652.4	15119.0	14796.4	13987.4	13229.0	11871.0	11658.9	8736.1
37.5°	17165.2	17117.0	16773.6	16356.1	15896.9	15759.0	14943.4	13934.0	12647.5	12416.0	9256.4
40°	17422.7	17366.8	17141.8	16841.3	16473.2	16461.4	15998.4	14732.7	13525.6	13296.6	9843.0
42.5°	17266.6	17195.1	17102.7	17020.8	16907.6	16959.7	16989.6	15669.3	14490.8	14234.5	10522.1
45°	16690.4	16582.4	16647.5	16825.7	17071.5	17365.5	17884.5	16706.0	15571.7	15357.1	11319.4
47.5°	15804.6	15707.0	15909.9	16291.0	16959.7	17703.7	18731.3	17850.7	16862.1	16648.8	12455.0
50°	14558.4	14587.0	14877.1	15570.4	16581.1	17859.8	19774.6	19366.1	18737.8	18538.8	14004.3
52.5°	12513.6	12518.8	13335.7	14473.8	15909.9	17779.1	20353.4	21303.0	21299.1	21058.4	15479.4
55°	10614.4	10730.2	11376.7	12889.5	14822.5	17456.6	20757.9	22244.7	22981.0	22698.7	16854.3
57.5°	8759.5	8827.1	9439.8	10959.1	13270.6	16596.7	21172.9	23375.1	24919.2	24741.0	18563.5
60°	6649.6	6753.7	7387.2	8790.7	11285.6	15070.9	21211.9	24554.9	27235.9	27056.4	20471.8
62.5°	4316.0	4495.5	5088.7	6403.8	8884.4	12876.5	20306.6	25326.3	29431.6	29367.9	22165.4
65°	2480.6	2615.9	3028.2	4042.8	6129.3	10121.4	18153.8	25029.7	30783.1	30746.7	22798.9
66°	2026.6	2111.2	2427.3	3159.6	5057.5	8888.3	16902.4	24404.1	30917.1	30918.4	22726.0
67.5°	1620.8	1658.5	1800.3	2262.1	3732.0	7045.1	14666.4	23023.9	30750.6	30796.1	22256.5
70°	1341.1	1360.6	1404.8	1516.7	2037.0	4248.4	10410.2	19437.6	29079.1	29114.2	20423.6
72.5°	1203.2	1214.9	1231.8	1247.5	1437.4	2373.9	6358.2	15549.6	25495.4	25540.9	17630.9
75°	1090.1	1096.6	1094.0	1095.3	1205.8	1512.8	3285.8	11609.5	20614.9	20523.8	13506.1
77.5°	957.4	963.9	950.9	953.5	1066.6	1162.9	1635.1	8127.3	13911.9	13269.3	7609.6
80°	809.1	814.3	809.1	818.2	928.8	878.0	950.9	4572.3	6151.4	5818.4	2705.6
82.5°	611.4	633.5	649.1	685.5	764.9	624.4	636.1	1780.8	1873.1	1783.4	829.9
85°	268.0	326.5	489.1	524.2	574.9	374.6	417.6	725.8	762.3	738.8	301.8
87.5°	70.2	76.7	241.9	304.4	318.7	169.1	217.2	330.4	348.6	330.4	100.2
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°	3499.1	3499.1	3499.1	3499.1	3499.1	3499.1	3499.1	3499.1	3499.1	3499.1	3499.1
2.5°	3538.1	3474.4	3359.9	3258.5	3181.7	3129.7	3077.7	3051.6	3036.0	3020.4	3023.0
5°	3651.3	3522.5	3326.1	3186.9	3108.9	3059.4	3033.4	3023.0	3016.5	3000.9	3000.9
7.5°	3821.7	3639.6	3369.0	3225.9	3164.8	3127.1	3111.5	3106.3	3098.5	3080.3	3082.9
10°	4036.3	3781.4	3458.8	3319.6	3263.7	3222.0	3199.9	3192.1	3177.8	3157.0	3159.6
12.5°	4288.7	3957.0	3577.2	3431.5	3363.8	3307.9	3271.5	3249.4	3224.6	3197.3	3198.6
15°	4564.5	4148.2	3704.6	3531.6	3439.3	3361.2	3302.7	3265.0	3225.9	3192.1	3190.8
17.5°	4844.1	4332.9	3802.2	3586.3	3461.4	3358.6	3279.3	3220.7	3172.6	3131.0	3127.1
20°	5145.9	4499.4	3856.8	3581.1	3419.8	3297.5	3192.1	3119.3	3066.0	3024.3	3017.8
22.5°	5452.9	4655.5	3865.9	3527.7	3327.4	3177.8	3067.3	2986.6	2932.0	2889.0	2873.4
25°	5733.9	4776.5	3828.2	3425.0	3198.6	3037.3	2929.4	2847.4	2803.2	2752.5	2736.9
27.5°	5990.1	4861.0	3752.8	3293.6	3054.2	2895.6	2794.1	2723.8	2675.7	2636.7	2623.7
30°	6220.4	4906.6	3629.2	3137.5	2906.0	2761.6	2675.7	2627.6	2586.0	2536.5	2527.4
32.5°	6438.9	4906.6	3470.5	2967.1	2759.0	2643.2	2592.5	2562.5	2515.7	2467.6	2454.6
35°	6657.4	4876.6	3283.2	2788.9	2623.7	2558.6	2556.0	2520.9	2449.4	2384.3	2367.4
37.5°	6887.7	4815.5	3072.5	2622.4	2513.1	2520.9	2543.0	2465.0	2363.5	2271.2	2246.5
40°	7147.8	4731.0	2853.9	2478.0	2420.8	2504.0	2507.9	2384.3	2186.6	2102.1	2080.0
42.5°	7453.5	4646.4	2651.0	2350.5	2347.9	2453.3	2441.6	2210.0	2091.7	2048.7	2037.0
45°	7855.4	4598.3	2458.5	2229.5	2290.7	2371.3	2328.4	2113.8	2064.3	2039.6	2029.2
47.5°	8488.9	4623.0	2281.6	2133.3	2233.4	2289.4	2117.7	2074.8	2039.6	2009.7	1999.3
50°	9282.4	4608.7	2138.5	2066.9	2168.4	2203.5	2022.7	2024.0	2005.8	1972.0	1956.4
52.5°	9879.5	4496.8	2046.1	2029.2	2111.2	2051.3	1962.9	1974.6	1965.5	1916.1	1899.1
55°	10455.7	4400.6	1999.3	2014.9	2069.6	1861.4	1892.6	1921.3	1912.2	1864.0	1856.2
57.5°	11172.5	4382.3	1970.7	2018.8	2034.4	1766.5	1825.0	1862.7	1856.2	1835.4	1831.5
60°	12050.5	4387.6	1944.7	2025.3	1995.4	1696.2	1761.3	1809.4	1813.3	1809.4	1806.8
62.5°	12533.1	4245.8	1879.6	2007.1	1926.5	1635.1	1694.9	1765.2	1766.5	1774.3	1773.0
65°	12123.3	3821.7	1758.7	1943.4	1810.7	1584.4	1637.7	1714.4	1694.9	1730.0	1730.0
66°	11725.3	3577.2	1698.8	1901.7	1761.3	1564.8	1619.5	1688.4	1663.7	1711.8	1711.8
67.5°	10912.3	3164.8	1590.9	1813.3	1691.0	1537.5	1598.7	1645.5	1611.7	1683.2	1678.0
70°	9426.8	2448.1	1373.6	1613.0	1575.3	1497.2	1570.0	1559.6	1510.2	1619.5	1598.7
72.5°	7947.8	1860.1	1103.1	1350.2	1399.6	1446.5	1529.7	1450.4	1387.9	1464.7	1419.2
75°	6167.0	1398.3	871.5	1049.7	1182.4	1367.1	1481.6	1324.2	1234.4	1226.6	1201.9
77.5°	3333.9	960.0	690.7	801.3	939.2	1268.3	1449.1	1188.9	1053.6	1022.4	1002.9
80°	1320.3	624.4	502.1	607.5	656.9	1125.2	1371.0	1031.5	868.9	837.7	807.8
82.5°	545.0	369.4	323.9	407.1	428.0	962.6	1230.5	845.5	671.2	928.8	986.0
85°	234.1	202.9	192.5	210.7	241.9	675.1	979.5	645.2	724.5	646.5	513.8
87.5°	70.2	85.9	81.9	80.6	88.5	161.3	521.6	359.0	532.0	201.6	150.9
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)