

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: P317991

Luminaire Tested: **GAN-SA7A-727-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317991
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7A-727-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27052 lumens
Efficiency: N/A
Efficacy: 119.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

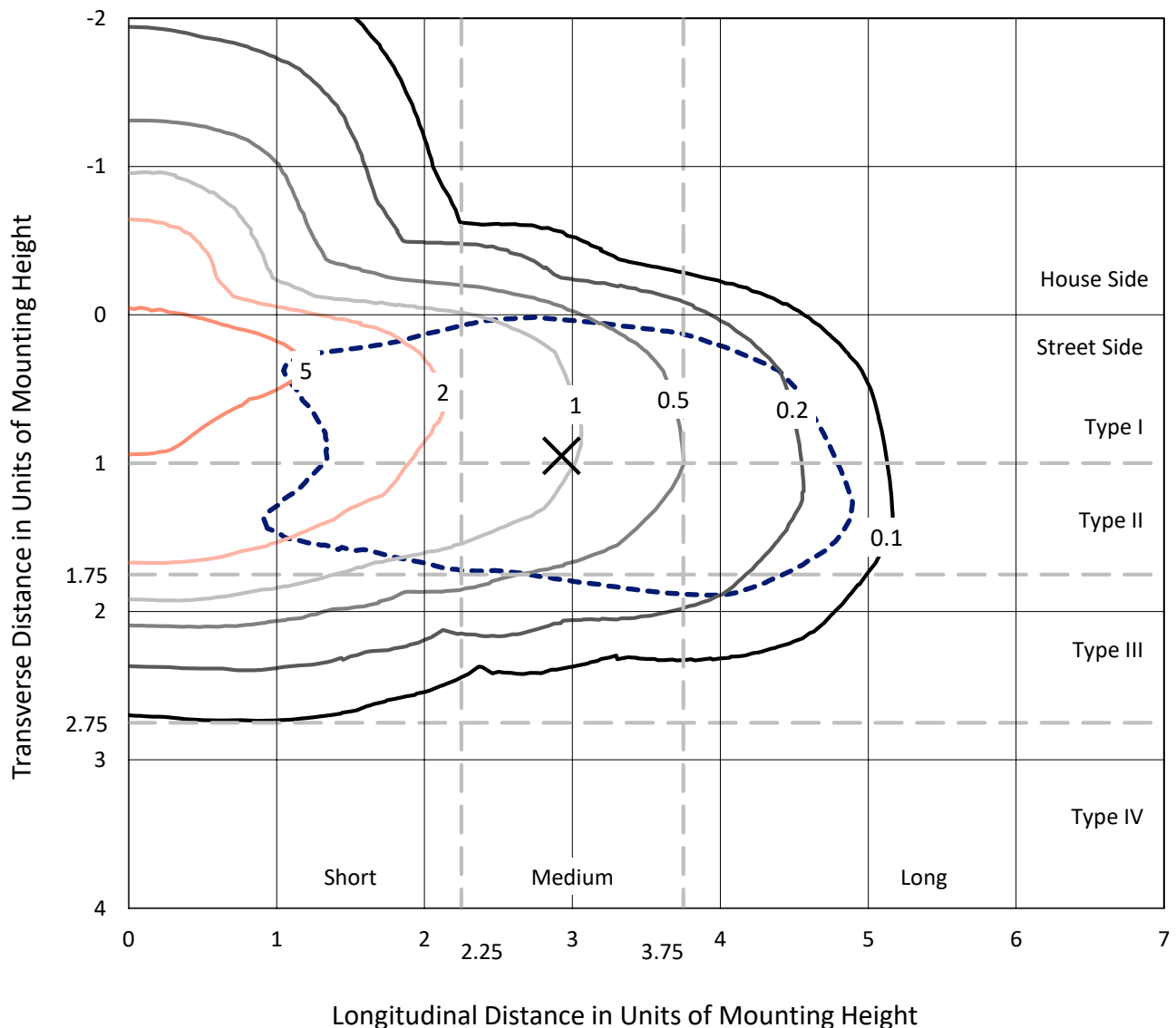
Input Watts (W): 226
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

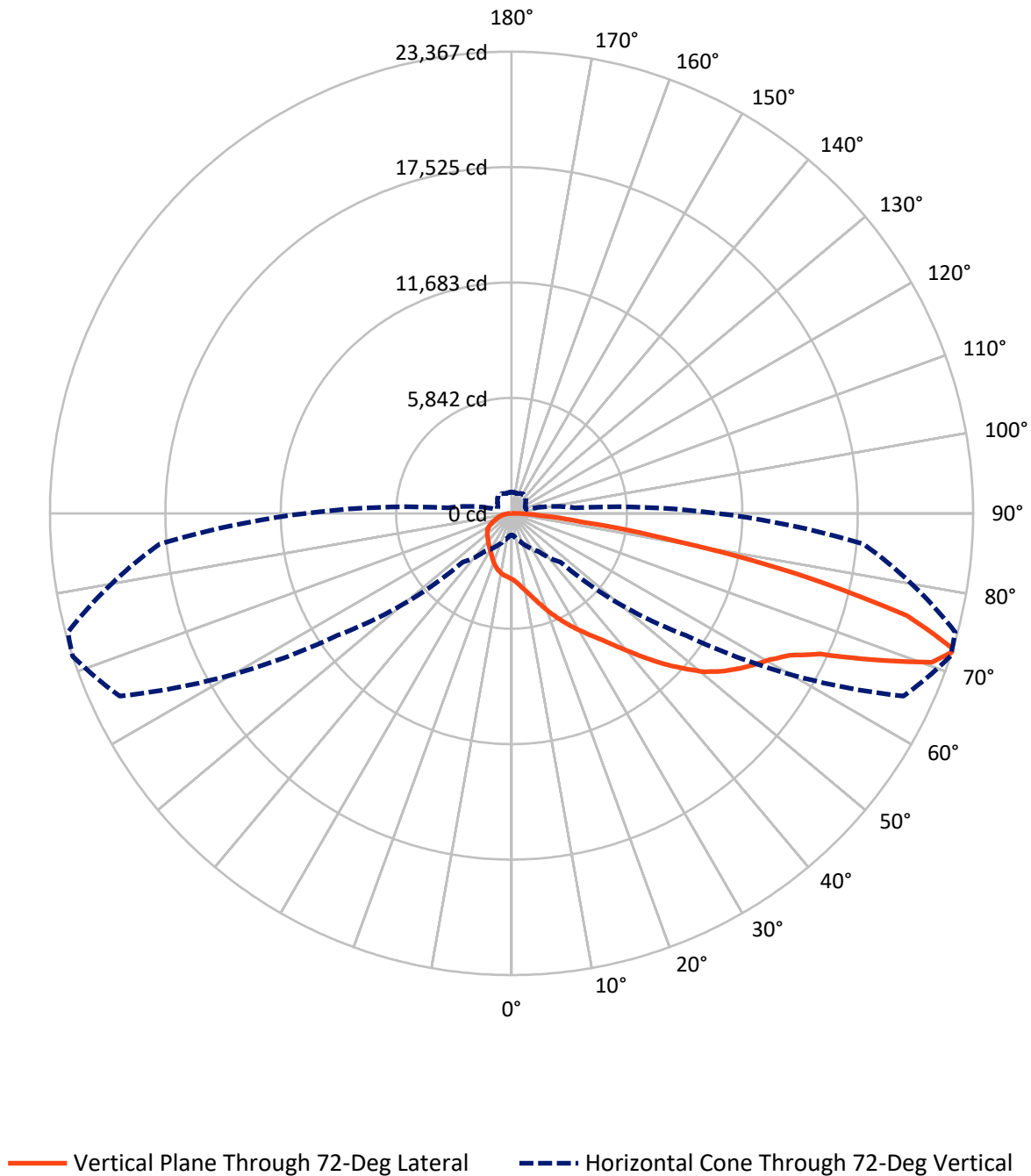
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5018.3	0.0	5018.3
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	22033.7	0.0	22033.7
	% Fixture	81.4	0.0	81.4
Total	Lumens	27052.0	0.0	27052.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	333.5	1.2
10°-20°	1077.7	4.0
20°-30°	1888.4	7.0
30°-40°	2799.9	10.4
40°-50°	4095.1	15.1
50°-60°	5634.8	20.8
60°-70°	6273.2	23.2
70°-80°	4250.7	15.7
80°-90°	698.6	2.6
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°	27052.0	100.0
0°-180°	27052.0	100.0

Coefficient of Utilization



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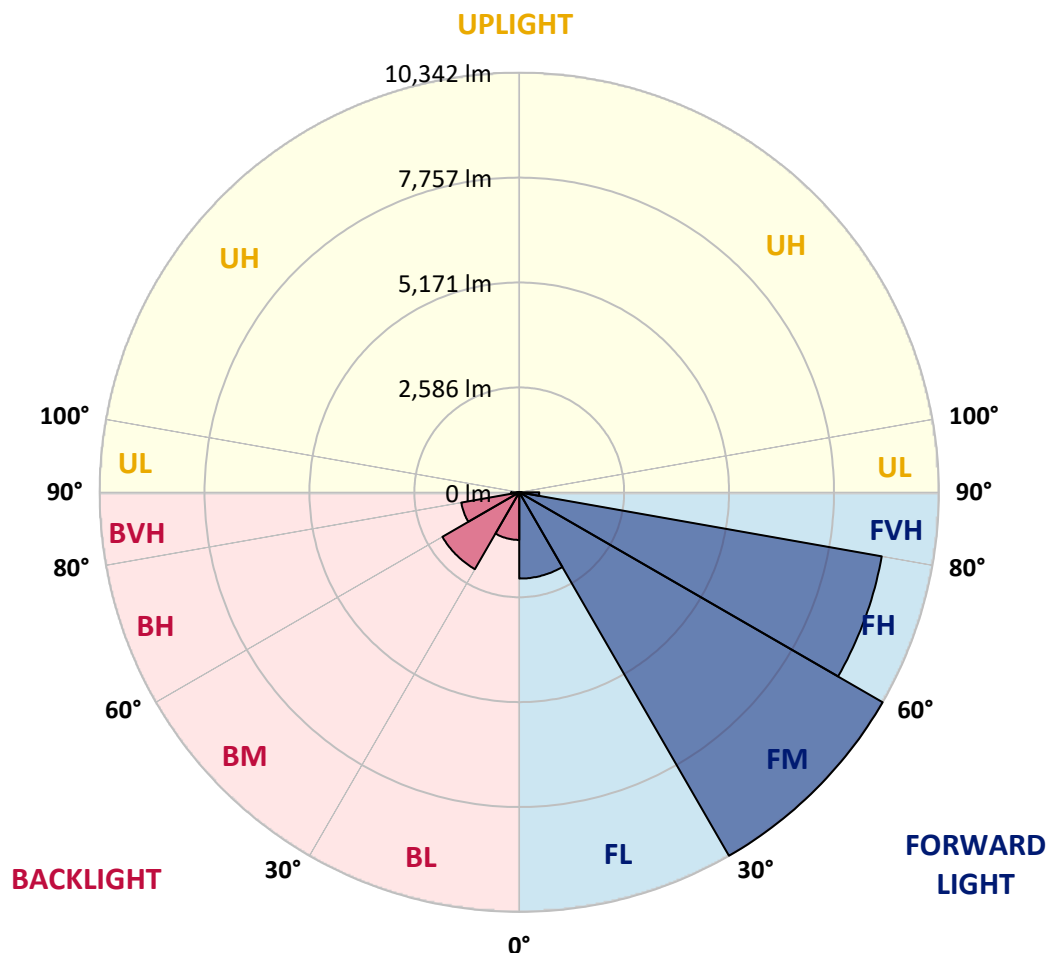
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2126.4	7.9			
FM	(30°-60°)	10342.3	38.2			
FH	(60°-80°)	9072.1	33.5			G4/12000
FVH	(80°-90°)	492.8	1.8			G3/500
BL	(0°-30°)	1173.1	4.3	B3/2500		
BM	(30°-60°)	2187.5	8.1	B2/2500		
BH	(60°-80°)	1451.9	5.4	B3/2500		G3/2500
BVH	(80°-90°)	205.8	0.8			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	3328.1	3328.1	3328.1	3328.1	3328.1	3328.1	3328.1	3328.1	3328.1	3328.1	3328.1
2.5°	3676.5	3670.9	3651.3	3651.3	3614.1	3582.4	3522.8	3482.7	3435.2	3418.5	3362.6
5°	4032.3	4034.1	4009.9	3993.2	3938.2	3871.1	3769.6	3677.4	3585.2	3547.9	3433.4
7.5°	4331.3	4327.6	4321.0	4307.1	4255.8	4186.9	4050.0	3913.1	3777.1	3721.2	3523.7
10°	4523.2	4531.5	4537.1	4543.7	4522.2	4472.9	4343.4	4176.7	3998.8	3922.4	3631.8
12.5°	4620.0	4634.9	4661.0	4705.7	4741.1	4735.5	4641.5	4464.5	4253.0	4157.1	3766.8
15°	4676.9	4696.4	4737.4	4817.5	4917.2	4974.0	4948.8	4788.6	4553.0	4434.7	3931.7
17.5°	4712.2	4728.1	4791.4	4898.5	5046.6	5197.5	5263.7	5129.5	4892.0	4757.0	4120.8
20°	4736.5	4748.6	4827.8	4953.5	5145.4	5385.7	5570.1	5536.6	5265.5	5090.4	4318.2
22.5°	4790.5	4800.7	4876.2	5002.9	5215.2	5525.4	5865.4	5915.7	5659.5	5461.1	4529.7
25°	4941.4	4941.4	5004.7	5093.2	5292.5	5646.5	6115.0	6337.6	6061.9	5830.9	4725.3
27.5°	5229.2	5226.4	5249.7	5280.4	5431.3	5769.5	6337.6	6710.2	6479.2	6226.8	4915.3
30°	5570.1	5588.8	5591.5	5576.6	5647.4	5923.1	6543.5	7103.3	6899.3	6627.3	5110.0
32.5°	6008.8	6020.9	6007.0	5957.6	5947.4	6141.1	6745.6	7515.0	7353.9	7045.6	5287.9
35°	6565.9	6542.6	6498.8	6398.2	6302.2	6432.7	6976.6	7926.7	7864.3	7551.3	5532.9
37.5°	7162.9	7163.8	7109.8	6881.6	6749.3	6805.2	7295.2	8393.4	8481.9	8153.1	5846.8
40°	7641.7	7666.8	7700.4	7400.4	7229.1	7306.4	7700.4	8934.6	9212.1	8866.6	6255.7
42.5°	7976.1	8005.0	8100.0	7911.8	7733.9	7877.3	8177.3	9512.1	10031.8	9690.0	6734.4
45°	8330.0	8345.9	8412.9	8331.9	8218.3	8541.5	8714.7	10110.1	10899.0	10567.4	7270.0
47.5°	8702.6	8719.4	8788.3	8734.3	8674.7	9161.8	9275.5	10673.6	11729.9	11531.5	7842.0
50°	9162.8	9173.9	9239.1	9141.3	9160.0	9629.4	9776.6	11190.5	12600.8	12397.7	8415.7
52.5°	9790.6	9793.4	9883.7	9795.2	9707.7	9972.2	10207.9	11677.7	13283.5	13187.6	8989.5
55°	10282.4	10312.2	10608.4	10589.8	10539.5	10283.3	10568.3	12141.6	13892.7	13938.3	9598.7
57.5°	9968.5	10084.9	10684.8	11107.6	11519.3	11057.3	11055.5	12664.1	14459.0	14675.1	10268.4
60°	8730.6	8888.9	9772.9	10710.8	11999.1	12404.2	12067.0	13302.2	15030.9	15405.4	11107.6
62.5°	6235.2	6496.0	7693.8	9191.6	11341.4	13296.6	14125.6	14314.7	15808.7	16251.2	12198.4
65°	3152.1	3349.5	4353.6	6157.9	9061.2	12713.5	16362.9	16531.5	17160.3	17553.3	13877.8
67.5°	1915.1	1989.6	2479.5	3425.0	5555.2	9903.3	17093.2	20226.6	19775.8	19984.4	16272.6
70°	1411.2	1466.1	1771.6	2274.6	3194.9	5811.4	14852.1	22863.6	22567.4	22544.1	18042.4
72°	1099.1	1139.2	1409.3	1837.8	2336.1	3486.4	10764.9	21890.2	23366.6	23249.2	17880.3
72.5°	1042.3	1077.7	1323.6	1729.7	2207.6	3160.4	9678.8	21233.5	23308.8	23255.7	17670.7
75°	820.6	845.8	979.9	1337.6	1727.9	1793.1	5303.7	16455.1	20677.5	21537.2	15893.5
77.5°	679.0	682.8	753.6	973.4	1346.9	1267.7	2605.3	11416.9	14806.5	15751.9	11258.5
80°	553.3	557.9	591.5	682.8	1019.0	938.0	1237.0	6564.9	8290.0	8300.2	5354.0
82.5°	440.6	441.5	478.8	499.3	732.1	670.7	708.8	3082.2	3622.4	3484.6	1924.4
85°	310.2	303.7	467.6	409.8	478.8	430.3	391.2	1220.2	1497.8	1432.6	602.7
87.5°	103.4	107.1	207.7	265.5	279.4	244.0	174.2	467.6	565.4	560.7	190.9
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°	3328.1	3328.1	3328.1	3328.1	3328.1	3328.1	3328.1	3328.1	3328.1	3328.1	3328.1
2.5°	3344.9	3315.1	3271.3	3222.8	3184.7	3145.5	3116.7	3101.8	3085.0	3071.0	3087.8
5°	3380.3	3324.4	3231.2	3139.9	3072.9	3013.3	2970.4	2948.1	2927.6	2913.6	2915.5
7.5°	3438.0	3347.7	3191.2	3058.0	2964.8	2900.6	2856.8	2841.9	2828.8	2825.1	2829.8
10°	3499.5	3366.3	3138.1	2961.1	2854.9	2801.8	2782.3	2792.5	2801.8	2810.2	2819.5
12.5°	3569.3	3383.1	3060.8	2847.5	2757.1	2736.6	2756.2	2800.9	2833.5	2853.1	2865.2
15°	3660.6	3398.0	2971.4	2733.8	2673.3	2696.6	2762.7	2840.0	2896.8	2933.2	2938.8
17.5°	3744.5	3397.0	2856.8	2619.3	2605.3	2673.3	2773.0	2881.9	2958.3	3009.5	3019.8
20°	3831.1	3371.9	2723.6	2507.5	2536.4	2648.1	2777.6	2908.9	3001.2	3060.8	3074.7
22.5°	3912.1	3328.1	2577.3	2406.0	2478.6	2614.6	2759.9	2893.1	2985.3	3033.8	3048.7
25°	3967.1	3251.7	2429.2	2320.3	2427.4	2573.6	2702.2	2809.3	2878.2	2902.4	2906.2
27.5°	3995.0	3152.1	2289.5	2245.7	2374.3	2506.6	2595.0	2648.1	2667.7	2665.8	2662.1
30°	3998.8	3020.7	2169.4	2185.2	2312.8	2407.8	2449.7	2439.5	2414.3	2371.5	2375.2
32.5°	3986.6	2872.6	2068.8	2127.5	2234.6	2287.7	2289.5	2240.2	2173.1	2105.1	2086.5
35°	3990.4	2727.3	1980.3	2062.2	2139.6	2162.8	2141.4	2068.8	1977.5	1889.9	1871.3
37.5°	4031.4	2600.6	1903.9	1986.8	2034.3	2039.9	2009.2	1932.8	1865.7	1780.0	1772.6
40°	4129.2	2510.3	1831.2	1902.0	1929.1	1931.8	1888.1	1834.0	1839.6	1794.0	1793.1
42.5°	4305.2	2471.2	1767.0	1813.5	1830.3	1835.9	1802.4	1767.9	1816.3	1786.5	1776.3
45°	4532.5	2480.5	1713.0	1726.9	1757.7	1783.7	1763.3	1721.3	1740.0	1610.5	1567.6
47.5°	4795.1	2540.1	1670.1	1652.4	1705.5	1754.9	1723.2	1659.9	1593.7	1465.2	1441.0
50°	5102.5	2632.3	1631.0	1578.8	1648.7	1715.7	1684.1	1593.7	1494.1	1431.7	1423.3
52.5°	5423.0	2745.0	1591.9	1497.8	1577.0	1685.9	1670.1	1578.8	1455.9	1394.4	1383.2
55°	5786.2	2858.6	1542.5	1403.7	1499.6	1672.0	1663.6	1524.8	1427.0	1392.5	1384.1
57.5°	6238.0	2988.1	1477.3	1305.9	1427.0	1621.7	1595.6	1492.2	1397.2	1371.1	1368.3
60°	6826.7	3179.1	1383.2	1201.6	1338.5	1544.4	1538.8	1444.7	1349.7	1331.1	1327.3
62.5°	7709.7	3494.8	1253.7	1097.3	1239.8	1413.0	1464.3	1380.4	1299.4	1298.5	1300.3
65°	9078.9	3969.9	1113.1	1006.0	1140.1	1302.2	1377.6	1314.3	1248.2	1266.8	1269.6
67.5°	10666.1	4363.9	975.2	916.6	1038.6	1196.9	1299.4	1248.2	1180.2	1228.6	1229.5
70°	11194.3	4011.8	854.1	828.1	933.3	1095.4	1214.6	1175.5	1106.6	1155.0	1150.4
72°	10417.4	3238.7	775.9	761.0	854.1	1011.6	1139.2	1107.5	1039.5	1072.1	1060.0
72.5°	10172.5	3087.8	756.3	744.2	832.7	990.1	1119.6	1090.7	1022.7	1050.7	1039.5
75°	9074.3	2681.7	650.2	653.0	726.5	885.8	1009.7	1000.4	930.5	933.3	929.6
77.5°	6581.7	1966.3	547.7	566.3	618.5	778.7	898.9	893.3	816.9	802.9	800.1
80°	3054.3	1003.2	446.2	454.6	508.6	651.1	766.6	759.1	697.7	680.0	669.7
82.5°	1046.0	476.9	335.3	340.9	394.0	524.4	665.1	660.4	609.2	574.7	553.3
85°	373.5	237.5	234.7	229.1	281.3	412.6	579.4	554.2	478.8	408.0	406.1
87.5°	121.1	101.5	121.1	120.2	163.9	279.4	421.0	358.6	347.4	288.8	283.2
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)