

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: P299019

Luminaire Tested: **GAA-AF-08-LED-U-T2-8030-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P299019  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24139)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAA-AF-08-LED-U-T2-8030-600  
Description: GALLEONAIRE AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 3000K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Type II OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

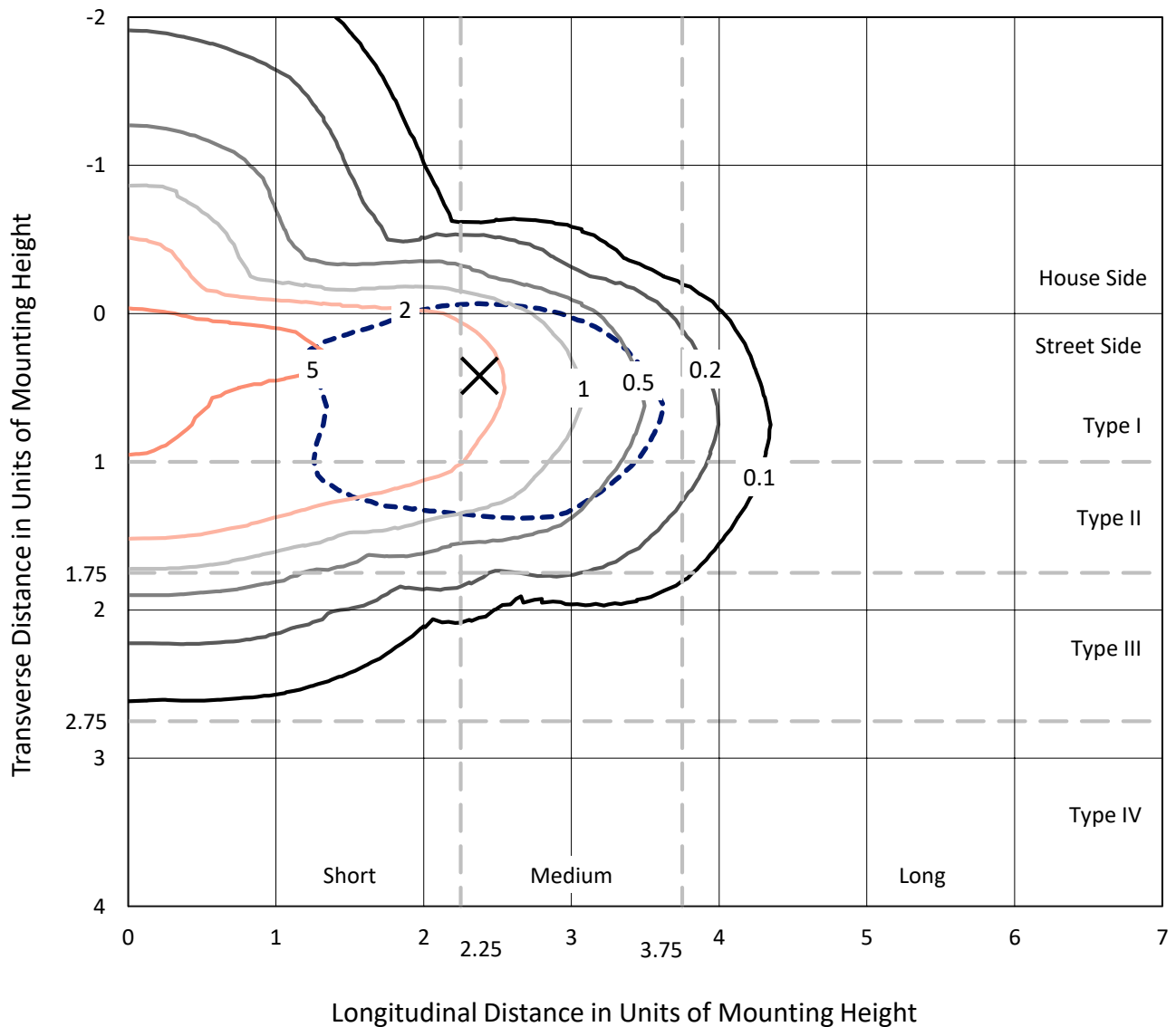
Lumens per Lamp: N/A  
Luminaire Lumens: 25080.5 lumens  
Efficiency: N/A  
Efficacy: 97.6 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Medium - Full Cutoff  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 257  
Input Voltage (V): NR  
Input Current (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: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

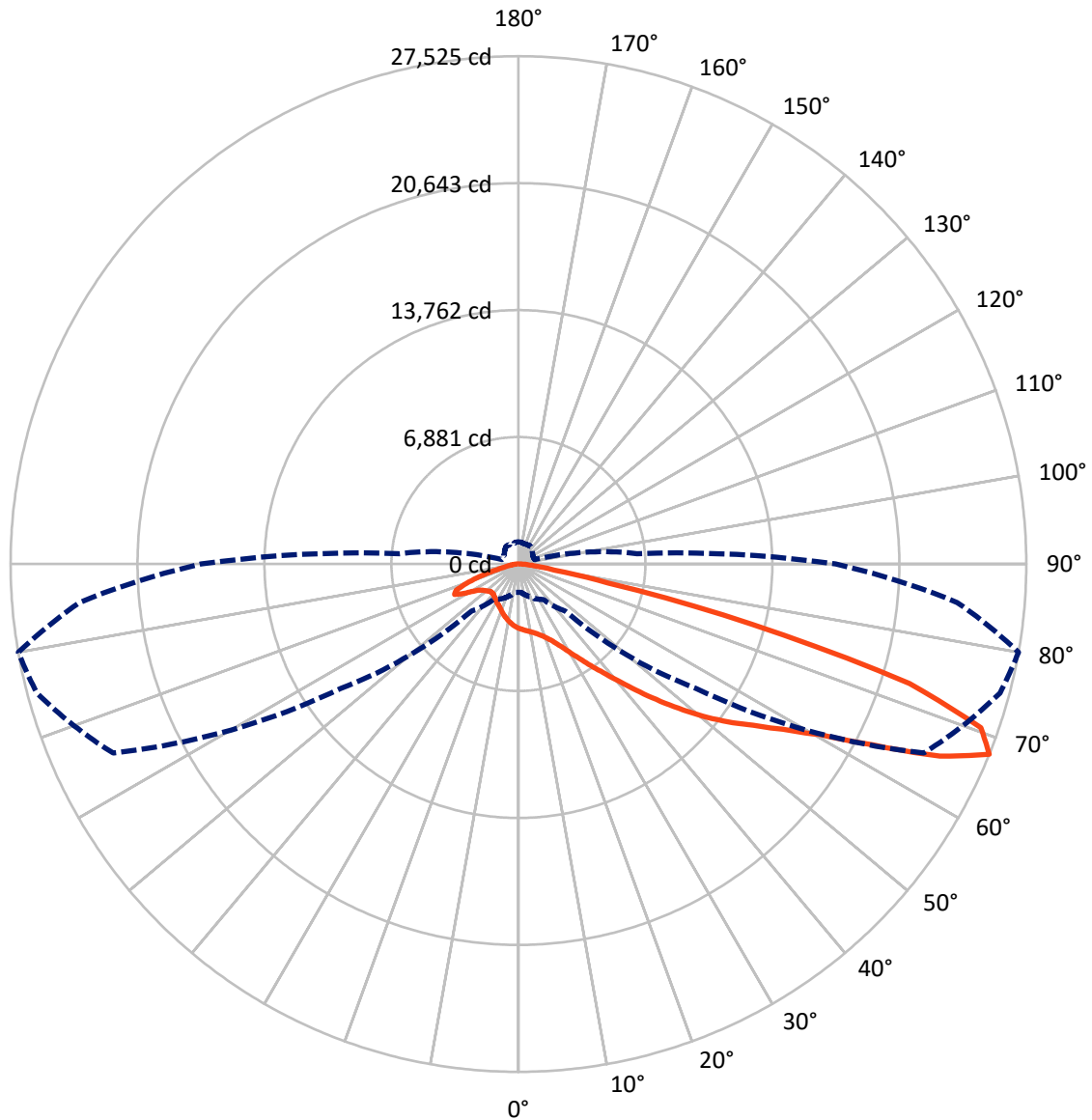
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 fc  
 Type II - Medium - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 80-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4618.9	0.0	4618.9
	% Fixture	18.4	0.0	18.4
<b>Street Side</b>	Lumens	20461.6	0.0	20461.6
	% Fixture	81.6	0.0	81.6
<b>Total</b>	Lumens	25080.5	0.0	25080.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	321.4	1.3
10°-20°	925.9	3.7
20°-30°	1532.6	6.1
30°-40°	2506.9	10.0
40°-50°	4047.7	16.1
50°-60°	5843.7	23.3
60°-70°	6448.9	25.7
70°-80°	2972.5	11.9
80°-90°	480.8	1.9
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°	25080.5	100.0
0°-180°	25080.5	100.0



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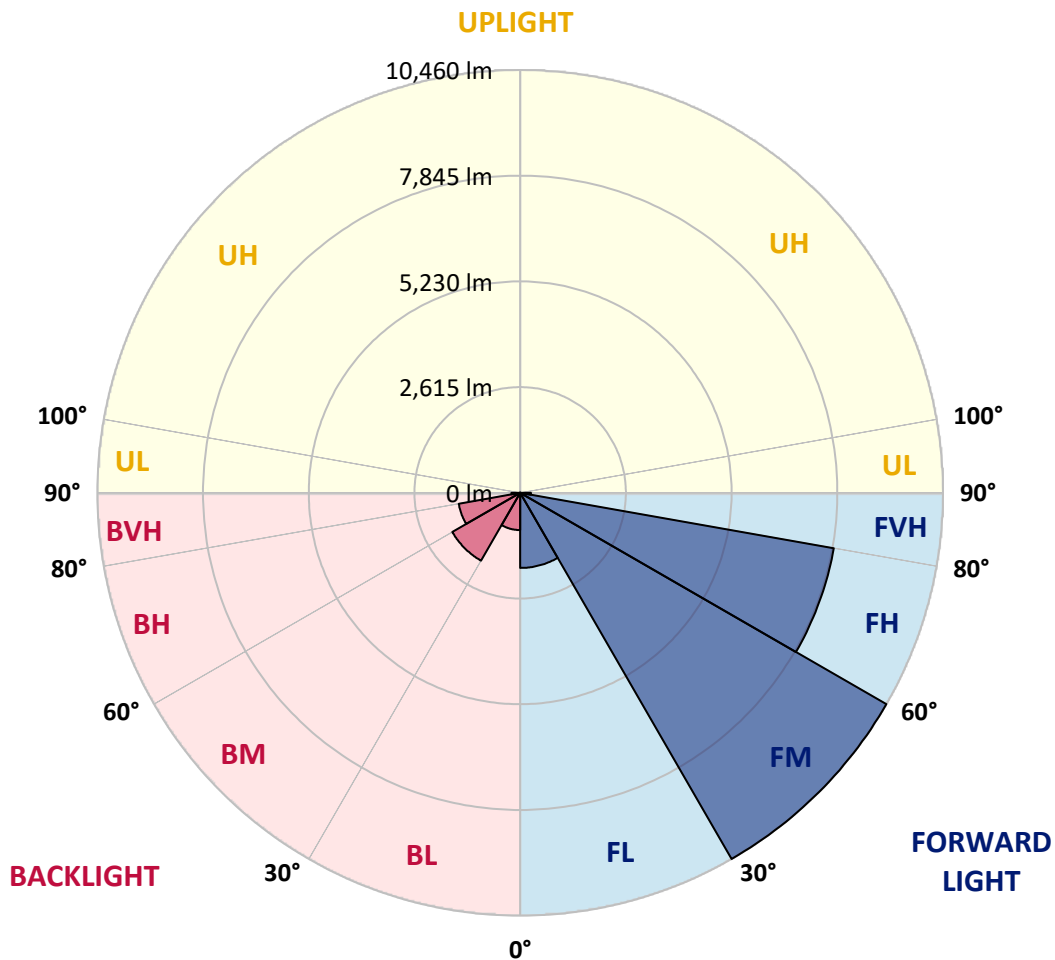
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1858.4	7.4			
FM	(30°-60°)	10460.4	41.7			
FH	(60°-80°)	7878.4	31.4			G4/12000
FVH	(80°-90°)	264.3	1.1			G3/500
BL	(0°-30°)	921.5	3.7	B2/1000		
BM	(30°-60°)	1937.9	7.7	B2/2500		
BH	(60°-80°)	1543.0	6.2	B3/2500		G3/2500
BVH	(80°-90°)	216.5	0.9			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 II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	3484.4	3484.4	3484.4	3484.4	3484.4	3484.4	3484.4	3484.4	3484.4	3484.4	3484.4
2.5°	3811.6	3789.4	3793.1	3786.9	3768.4	3736.3	3701.7	3638.8	3573.3	3538.7	3511.6
5°	4130.2	4124.0	4115.4	4095.6	4048.7	3982.0	3899.3	3788.2	3668.4	3605.4	3544.9
7.5°	4368.5	4364.8	4353.7	4341.3	4295.6	4215.4	4090.7	3932.6	3758.5	3672.1	3578.3
10°	4388.2	4394.4	4403.1	4436.4	4442.6	4399.3	4272.2	4080.8	3852.4	3741.2	3621.5
12.5°	4220.3	4233.9	4267.2	4352.4	4442.6	4495.7	4430.2	4236.4	3962.3	3827.7	3675.8
15°	3998.1	4005.5	4046.2	4163.5	4325.3	4489.5	4551.2	4408.0	4104.2	3938.8	3757.3
17.5°	3903.0	3906.7	3935.1	4012.9	4163.5	4398.1	4619.1	4594.4	4278.3	4077.1	3857.3
20°	3854.8	3863.5	3904.2	3980.8	4075.8	4280.8	4629.0	4795.7	4485.8	4249.9	3983.2
22.5°	3991.9	3988.2	4003.0	4041.3	4121.5	4245.0	4621.6	5003.1	4750.0	4472.2	4147.5
25°	4311.7	4325.3	4299.3	4256.1	4282.0	4368.5	4661.1	5227.9	5080.9	4757.4	4362.3
27.5°	4767.3	4753.7	4715.4	4614.2	4561.1	4598.1	4792.0	5469.9	5492.1	5132.8	4646.3
30°	5221.7	5210.6	5173.5	5050.0	4941.4	4910.5	5046.3	5747.7	5982.3	5583.5	4994.5
32.5°	5693.3	5681.0	5646.4	5523.0	5392.1	5320.5	5408.1	6068.7	6560.1	6121.8	5404.4
35°	6274.9	6251.4	6178.6	6007.0	5878.6	5823.0	5863.7	6472.5	7226.9	6758.9	5902.0
37.5°	6821.9	6857.7	6783.6	6546.5	6379.9	6360.1	6405.8	6965.1	7945.5	7471.4	6473.7
40°	7371.3	7377.5	7310.8	7117.0	6945.4	6913.3	7028.1	7562.7	8793.8	8323.3	7168.8
42.5°	7939.3	7951.7	7839.3	7660.3	7534.3	7540.5	7671.4	8262.8	9766.7	9327.2	7969.0
45°	8612.2	8630.8	8507.3	8272.7	8157.9	8388.8	8334.4	9048.1	10833.5	10468.0	8887.6
47.5°	9316.0	9344.4	9250.6	9030.8	8887.6	9204.9	8997.5	9918.6	11981.8	11691.7	9896.4
50°	9700.0	9740.8	9832.2	9816.1	9785.2	9732.1	9737.1	10852.1	13165.9	12965.9	10933.5
52.5°	9493.8	9492.6	9826.0	10231.0	10663.1	10695.2	10638.4	11836.1	14272.3	14211.8	11910.2
55°	8550.5	8614.7	9119.7	9903.8	11084.2	11821.3	11989.2	12963.4	15358.8	15429.2	12901.7
57.5°	6979.9	7033.0	7714.6	8807.3	10516.2	12490.5	13910.5	14601.9	16573.8	16902.2	14221.6
60°	4734.0	4798.2	5520.5	6833.0	8987.6	12117.7	15739.1	17525.8	18028.3	18775.3	16073.7
62.5°	2781.8	2839.9	3428.8	4310.4	6328.0	10385.3	16541.7	21685.6	20338.5	21601.6	18898.8
65°	1915.1	1954.6	2241.0	2683.1	3636.3	6994.8	15546.5	24557.6	23893.3	25103.3	22174.5
67.5°	1540.9	1536.0	1763.2	2064.5	2341.1	3606.6	11755.9	24232.8	27019.6	27524.6	23874.8
70°	1269.3	1264.4	1418.7	1668.1	1870.6	2031.1	6403.3	20449.6	26382.5	26587.5	22309.1
72.5°	1061.9	1066.8	1165.6	1350.8	1534.8	1529.8	2814.0	14385.9	20754.6	22172.1	17783.8
75°	896.4	898.9	964.3	1095.2	1245.8	1232.3	1526.1	7793.6	12064.6	13051.1	9858.1
77.5°	763.1	765.5	807.5	880.4	987.8	982.8	1113.7	3367.1	5032.8	4971.0	3372.1
80°	680.3	680.3	700.1	713.7	772.9	750.7	826.0	1617.5	2127.4	1964.5	1345.9
82.5°	533.4	535.9	656.9	651.9	608.7	580.3	580.3	953.2	1127.3	1042.1	787.8
85°	300.0	298.8	423.5	511.2	535.9	408.7	405.0	533.4	613.7	540.8	381.5
87.5°	128.4	130.9	196.3	227.2	303.7	254.4	250.7	275.3	312.4	270.4	176.6
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°	3484.4	3484.4	3484.4	3484.4	3484.4	3484.4	3484.4	3484.4	3484.4	3484.4	3484.4
2.5°	3485.6	3453.5	3383.2	3295.5	3216.5	3164.6	3117.7	3049.8	3053.5	3006.6	2972.0
5°	3483.2	3416.5	3253.5	3059.7	2873.2	2738.6	2637.4	2546.0	2523.8	2480.6	2454.6
7.5°	3485.6	3377.0	3102.9	2793.0	2562.1	2391.7	2305.2	2257.1	2246.0	2231.2	2232.4
10°	3494.3	3341.2	2937.4	2543.5	2301.5	2189.2	2168.2	2183.0	2200.3	2205.2	2206.5
12.5°	3514.0	3309.1	2755.9	2321.3	2138.6	2104.0	2139.8	2190.4	2223.8	2239.8	2238.6
15°	3558.5	3284.4	2581.8	2147.2	2048.4	2066.9	2133.6	2205.2	2253.4	2275.6	2276.8
17.5°	3606.6	3248.6	2402.8	2013.8	1981.7	2028.7	2111.4	2195.4	2254.6	2279.3	2284.3
20°	3669.6	3204.1	2215.1	1913.8	1918.8	1971.9	2049.7	2133.6	2199.1	2220.0	2229.9
22.5°	3752.3	3156.0	2050.9	1832.3	1847.2	1887.9	1948.4	2021.3	2078.1	2087.9	2096.6
25°	3863.5	3104.1	1920.0	1758.3	1764.4	1787.9	1828.6	1871.9	1911.4	1900.3	1908.9
27.5°	4012.9	3059.7	1822.5	1690.3	1679.2	1684.2	1705.2	1718.7	1739.7	1708.9	1712.6
30°	4188.2	3011.5	1747.1	1631.1	1600.2	1591.6	1596.5	1603.9	1620.0	1578.0	1571.8
32.5°	4391.9	2953.5	1676.8	1579.2	1536.0	1518.7	1521.2	1540.9	1602.7	1576.8	1563.2
35°	4629.0	2888.0	1602.7	1522.4	1492.8	1468.1	1465.6	1527.4	1711.3	1695.3	1682.9
37.5°	4906.8	2822.6	1528.6	1458.2	1460.7	1433.5	1424.9	1495.3	1732.3	1669.4	1660.7
40°	5260.0	2788.0	1465.6	1390.3	1421.2	1417.5	1400.2	1436.0	1594.0	1479.2	1464.4
42.5°	5697.0	2793.0	1418.7	1317.5	1374.3	1413.8	1386.6	1387.8	1444.6	1358.2	1344.6
45°	6236.6	2851.0	1385.4	1259.4	1321.2	1410.1	1381.7	1361.9	1366.8	1321.2	1313.8
47.5°	6866.3	2970.8	1361.9	1211.3	1270.5	1396.5	1380.4	1354.5	1343.4	1318.7	1312.5
50°	7566.4	3144.9	1344.6	1165.6	1224.9	1374.3	1381.7	1347.1	1334.7	1324.9	1321.2
52.5°	8254.2	3343.7	1318.7	1126.1	1189.0	1347.1	1385.4	1339.7	1326.1	1318.7	1315.0
55°	9020.9	3591.8	1279.2	1092.7	1159.4	1312.5	1385.4	1328.6	1313.8	1315.0	1313.8
57.5°	10056.9	3993.1	1232.3	1064.3	1123.6	1270.5	1361.9	1316.2	1297.7	1298.9	1300.2
60°	11675.6	4700.6	1175.5	1035.9	1079.2	1221.1	1329.8	1289.1	1270.5	1275.5	1276.7
62.5°	14056.2	5739.0	1101.4	994.0	1032.2	1168.1	1285.4	1254.5	1236.0	1248.3	1248.3
65°	16530.6	6655.2	1010.0	940.9	982.8	1110.0	1229.8	1211.3	1192.8	1221.1	1219.9
67.5°	17196.1	6450.2	918.6	882.8	933.5	1045.8	1163.1	1153.2	1143.4	1192.8	1190.3
70°	15276.1	5178.5	834.7	823.6	879.1	976.7	1091.5	1091.5	1085.3	1122.4	1113.7
72.5°	11638.6	3672.1	754.4	760.6	817.4	901.4	1013.7	1022.4	1012.5	1031.0	1023.6
75°	6230.5	2101.5	674.2	691.4	740.8	824.8	927.3	935.9	929.8	928.5	932.2
77.5°	2070.6	1027.3	590.2	617.4	660.6	745.8	837.1	850.7	835.9	833.4	832.2
80°	922.3	645.8	497.6	533.4	571.7	655.6	742.1	753.2	737.1	759.4	731.0
82.5°	592.7	424.7	398.8	438.3	475.4	565.5	647.0	649.5	634.7	737.1	628.5
85°	287.7	263.0	300.0	335.8	367.9	444.5	535.9	537.1	500.1	455.6	439.6
87.5°	143.2	153.1	200.0	232.1	248.2	305.0	390.2	382.8	366.7	333.4	307.4
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)