

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: P318119

Luminaire Tested: **GAN-SA5B-750-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318119
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-SA5B-750-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28029 lumens
Efficiency: N/A
Efficacy: 133.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

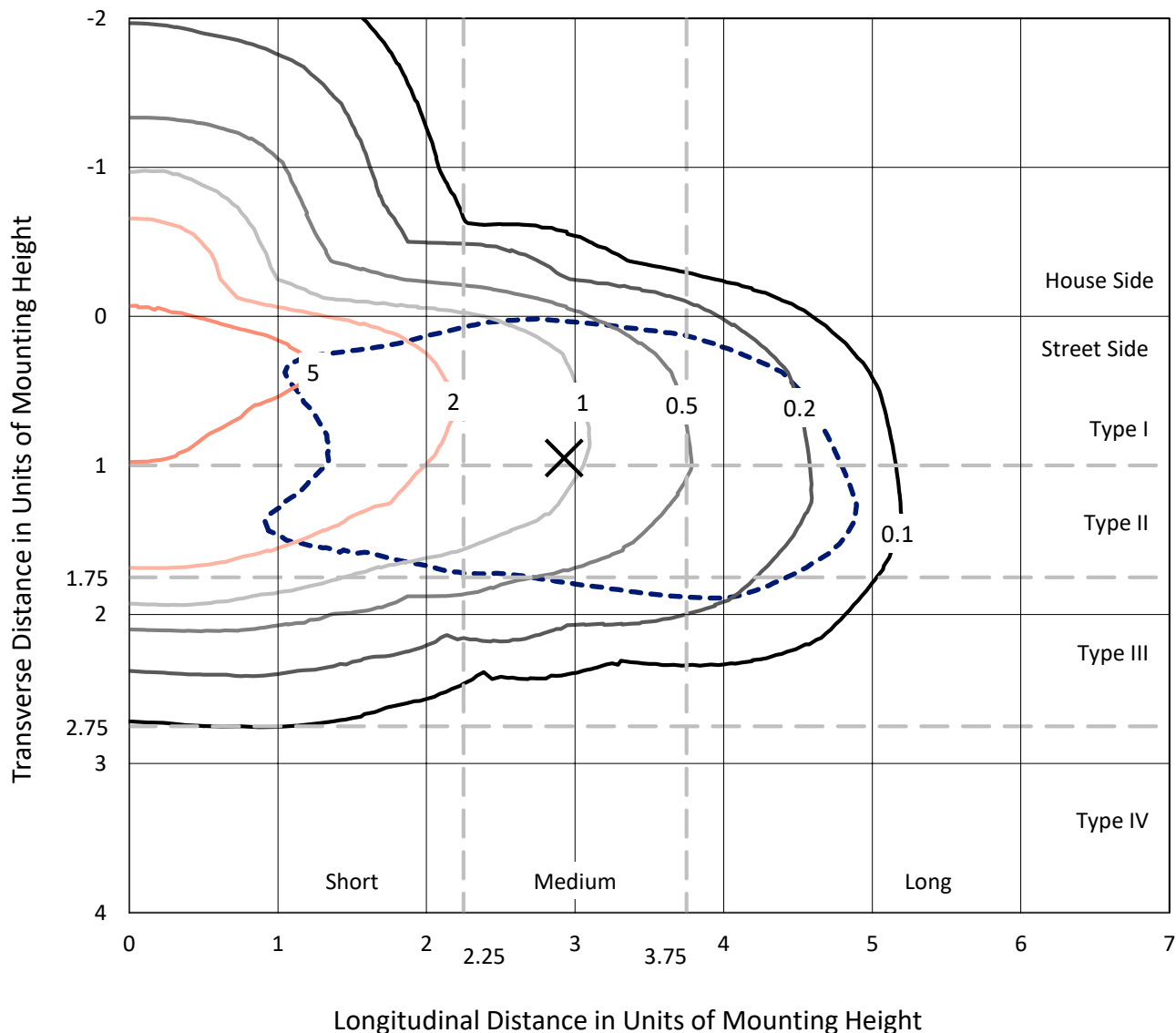
Input Watts (W): 210
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

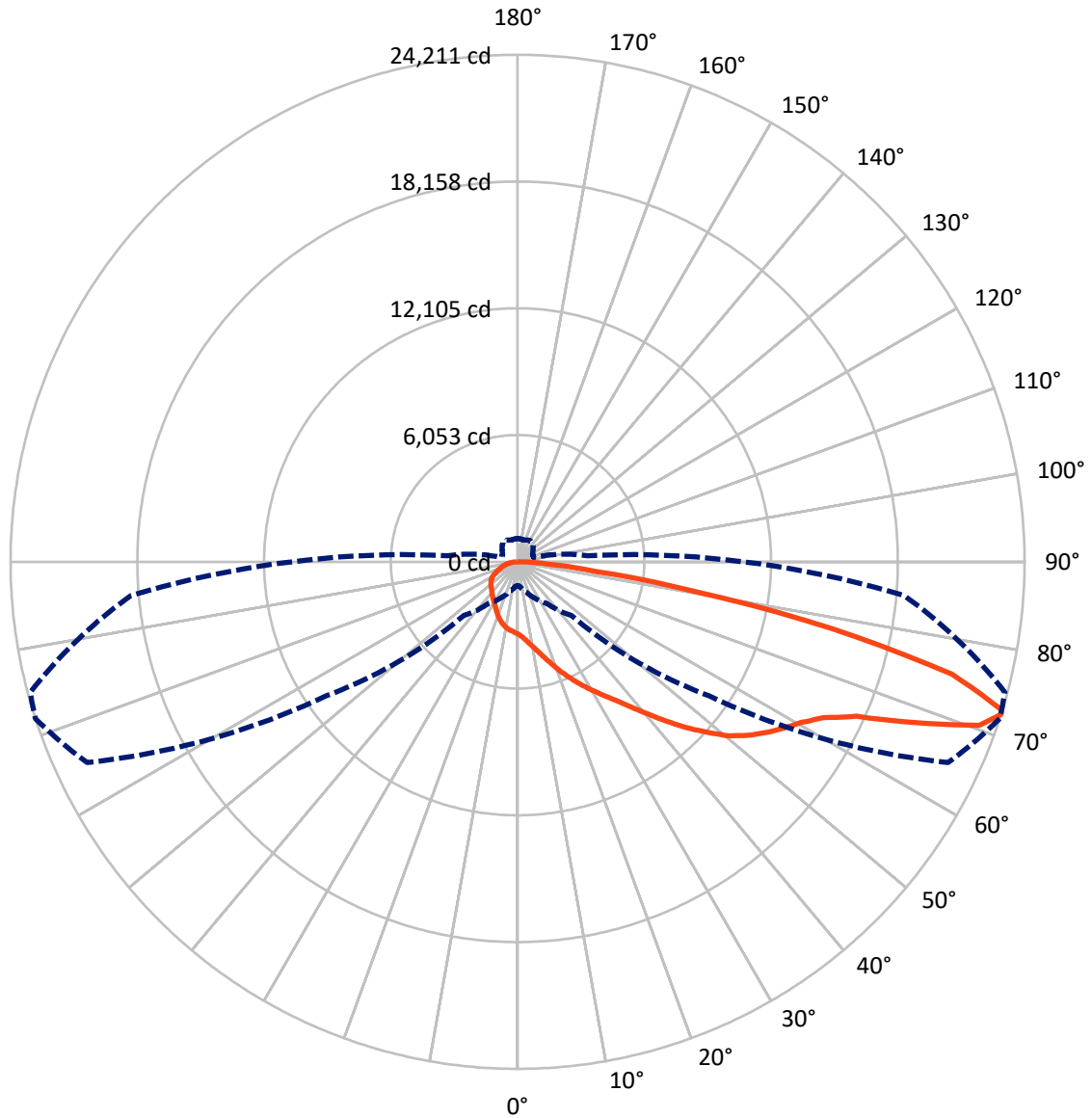
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5199.6	0.0	5199.6
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	22829.4	0.0	22829.4
	% Fixture	81.4	0.0	81.4
Total	Lumens	28029.0	0.0	28029.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	345.5	1.2
10°-20°	1116.6	4.0
20°-30°	1956.6	7.0
30°-40°	2901.0	10.4
40°-50°	4243.0	15.1
50°-60°	5838.3	20.8
60°-70°	6499.8	23.2
70°-80°	4404.2	15.7
80°-90°	723.9	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°	28029.0	100.0
0°-180°	28029.0	100.0

Coefficient of Utilization

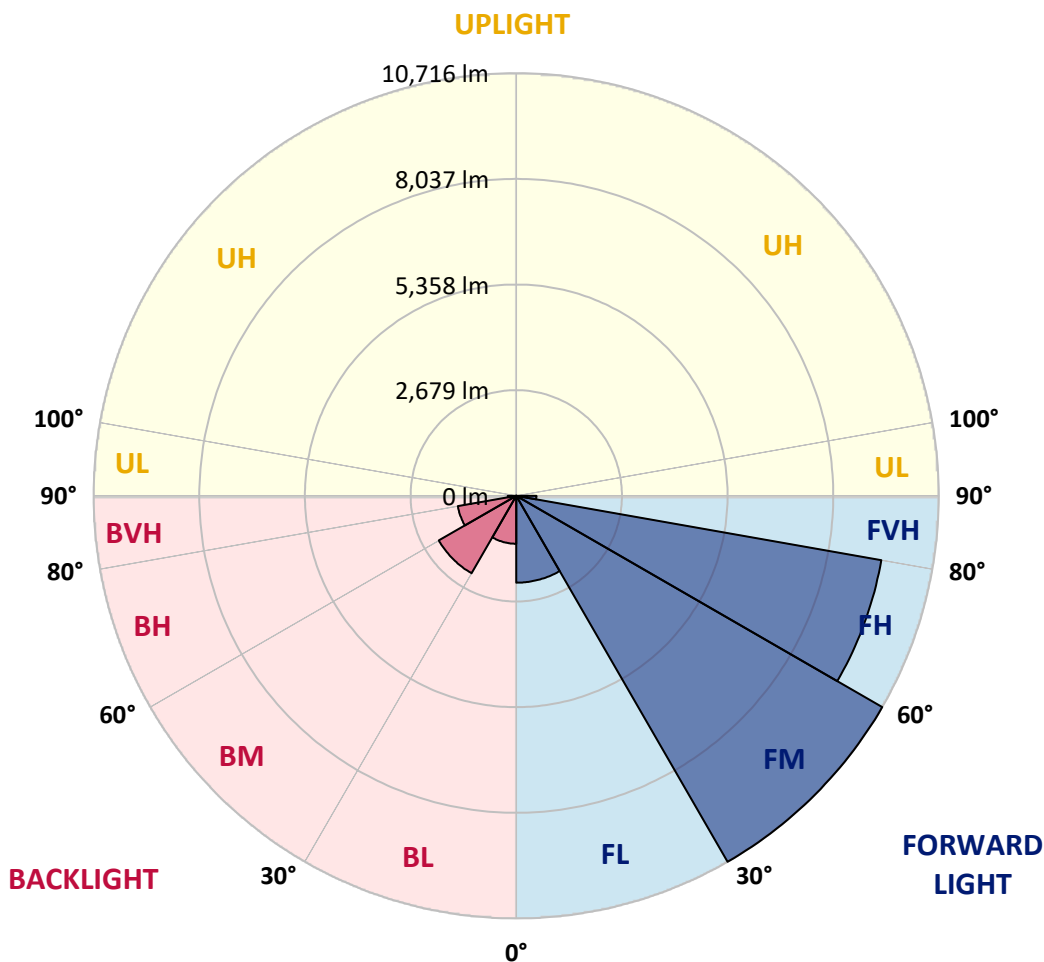


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2203.2	7.9			
FM (30°-60°)	10715.8	38.2			
FH (60°-80°)	9399.7	33.5			G4/12000
FVH (80°-90°)	510.6	1.8			G4/750
BL (0°-30°)	1215.5	4.3	B3/2500		
BM (30°-60°)	2266.5	8.1	B2/2500		
BH (60°-80°)	1504.3	5.4	B3/2500		G3/2500
BVH (80°-90°)	213.3	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°	3448.3	3448.3	3448.3	3448.3	3448.3	3448.3	3448.3	3448.3	3448.3	3448.3	3448.3
2.5°	3809.2	3803.5	3783.2	3783.2	3744.6	3711.8	3650.0	3608.5	3559.3	3541.9	3484.0
5°	4177.9	4179.8	4154.8	4137.4	4080.4	4011.0	3905.8	3810.2	3714.7	3676.1	3557.4
7.5°	4487.7	4483.8	4477.1	4462.6	4409.5	4338.1	4196.2	4054.4	3913.5	3855.6	3651.0
10°	4686.5	4695.2	4701.0	4707.8	4685.6	4634.4	4500.3	4327.5	4143.2	4064.0	3762.9
12.5°	4786.9	4802.3	4829.4	4875.7	4912.4	4906.6	4809.1	4625.7	4406.6	4307.2	3902.9
15°	4845.8	4866.0	4908.5	4991.5	5094.8	5153.6	5127.6	4961.6	4717.4	4594.8	4073.7
17.5°	4882.4	4898.8	4964.5	5075.5	5228.9	5385.3	5453.8	5314.8	5068.7	4928.8	4269.6
20°	4907.5	4920.1	5002.1	5132.4	5331.2	5580.2	5771.3	5736.5	5455.7	5274.3	4474.2
22.5°	4963.5	4974.1	5052.3	5183.5	5403.6	5725.0	6077.2	6129.3	5863.9	5658.4	4693.3
25°	5119.8	5119.8	5185.5	5277.2	5483.7	5850.4	6335.9	6566.5	6280.9	6041.5	4895.9
27.5°	5418.1	5415.2	5439.3	5471.1	5627.5	5977.8	6566.5	6952.6	6713.2	6451.7	5092.8
30°	5771.3	5790.6	5793.5	5778.0	5851.4	6137.1	6779.8	7359.8	7148.5	6866.7	5294.5
32.5°	6225.9	6238.4	6223.9	6172.8	6162.2	6362.9	6989.2	7786.4	7619.5	7300.0	5478.9
35°	6803.0	6778.9	6733.5	6629.3	6529.9	6665.0	7228.6	8213.0	8148.3	7824.1	5732.7
37.5°	7421.6	7422.6	7366.6	7130.2	6993.1	7051.0	7558.7	8696.5	8788.2	8447.5	6057.9
40°	7917.7	7943.7	7978.5	7667.7	7490.1	7570.2	7978.5	9257.2	9544.8	9186.8	6481.6
42.5°	8264.1	8294.1	8392.5	8197.5	8013.2	8161.8	8472.6	9855.6	10394.1	10039.9	6977.7
45°	8630.9	8647.3	8716.8	8632.8	8515.1	8850.0	9029.5	10475.2	11292.6	10949.0	7532.6
47.5°	9016.9	9034.3	9105.7	9049.7	8988.0	9492.7	9610.5	11059.1	12153.5	11947.9	8125.2
50°	9493.7	9505.3	9572.8	9471.5	9490.8	9977.2	10129.7	11594.7	13055.9	12845.5	8719.7
52.5°	10144.2	10147.0	10240.7	10149.0	10058.3	10332.3	10576.5	12099.4	13763.3	13663.9	9314.2
55°	10653.7	10684.6	10991.5	10972.2	10920.1	10654.7	10950.0	12580.1	14394.4	14441.7	9945.3
57.5°	10328.5	10449.1	11070.6	11508.8	11935.4	11456.7	11454.8	13121.5	14981.2	15205.1	10639.2
60°	9045.9	9209.9	10125.8	11097.7	12432.4	12852.2	12502.9	13782.6	15573.8	15961.8	11508.8
62.5°	6460.4	6730.6	7971.7	9523.6	11751.0	13776.8	14635.7	14831.6	16379.7	16838.1	12638.9
65°	3265.9	3470.5	4510.9	6380.3	9388.5	13172.6	16953.9	17128.6	17780.0	18187.3	14379.0
67.5°	1984.2	2061.5	2569.1	3548.7	5755.8	10260.9	17710.5	20957.1	20490.0	20706.2	16860.3
70°	1462.1	1519.1	1835.6	2356.8	3310.3	6021.3	15388.5	23689.3	23382.4	23358.3	18694.0
72°	1138.8	1180.3	1460.2	1904.1	2420.5	3612.4	11153.6	22680.8	24210.5	24088.9	18526.0
72.5°	1079.9	1116.6	1371.4	1792.2	2287.3	3274.6	10028.3	22000.4	24150.6	24095.6	18308.9
75°	850.3	876.3	1015.3	1385.9	1790.3	1857.8	5495.3	17049.4	21424.2	22315.0	16467.5
77.5°	703.6	707.4	780.8	1008.5	1395.5	1313.5	2699.4	11829.2	15341.2	16320.8	11665.1
80°	573.3	578.1	612.8	707.4	1055.8	971.9	1281.7	6802.0	8589.4	8600.0	5547.4
82.5°	456.5	457.5	496.1	517.3	758.6	694.9	734.4	3193.5	3753.3	3610.4	1993.9
85°	321.4	314.6	484.5	424.6	496.1	445.9	405.3	1264.3	1551.9	1484.3	624.4
87.5°	107.1	111.0	215.2	275.1	289.5	252.9	180.5	484.5	585.8	581.0	197.8
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°	3448.3	3448.3	3448.3	3448.3	3448.3	3448.3	3448.3	3448.3	3448.3	3448.3	3448.3
2.5°	3465.7	3434.8	3389.4	3339.2	3299.7	3259.1	3229.2	3213.8	3196.4	3181.9	3199.3
5°	3502.3	3444.4	3347.9	3253.3	3183.9	3122.1	3077.7	3054.5	3033.3	3018.8	3020.8
7.5°	3562.2	3468.6	3306.4	3168.4	3071.9	3005.3	2960.0	2944.5	2931.0	2927.1	2932.0
10°	3625.9	3487.9	3251.4	3068.0	2958.0	2903.0	2882.8	2893.4	2903.0	2911.7	2921.4
12.5°	3698.3	3505.2	3171.3	2950.3	2856.7	2835.5	2855.7	2902.1	2935.8	2956.1	2968.6
15°	3792.8	3520.7	3078.7	2832.6	2769.8	2794.0	2862.5	2942.6	3001.5	3039.1	3044.9
17.5°	3879.7	3519.7	2960.0	2713.9	2699.4	2769.8	2873.1	2986.0	3065.2	3118.2	3128.9
20°	3969.5	3493.7	2821.9	2598.0	2628.0	2743.8	2877.9	3014.0	3109.5	3171.3	3185.8
22.5°	4053.4	3448.3	2670.4	2492.9	2568.1	2709.0	2859.6	2997.6	3093.1	3143.3	3158.8
25°	4110.4	3369.2	2517.0	2404.1	2515.0	2666.6	2799.8	2910.7	2982.2	3007.2	3011.1
27.5°	4139.3	3265.9	2372.2	2326.9	2460.0	2597.1	2688.8	2743.8	2764.0	2762.1	2758.3
30°	4143.2	3129.8	2247.7	2264.1	2396.3	2494.8	2538.2	2527.6	2501.5	2457.1	2461.0
32.5°	4130.6	2976.4	2143.5	2204.3	2315.3	2370.3	2372.2	2321.1	2251.6	2181.1	2161.8
35°	4134.5	2825.8	2051.8	2136.7	2216.8	2241.0	2218.8	2143.5	2048.9	1958.2	1938.9
37.5°	4176.9	2694.6	1972.7	2058.6	2107.8	2113.6	2081.7	2002.6	1933.1	1844.3	1836.6
40°	4278.3	2600.9	1897.4	1970.7	1998.7	2001.6	1956.3	1900.3	1906.1	1858.8	1857.8
42.5°	4460.7	2560.4	1830.8	1879.0	1896.4	1902.2	1867.5	1831.8	1881.9	1851.1	1840.4
45°	4696.2	2570.1	1774.8	1789.3	1821.1	1848.2	1826.9	1783.5	1802.8	1668.7	1624.3
47.5°	4968.3	2631.8	1730.4	1712.1	1767.1	1818.2	1785.4	1719.8	1651.3	1518.1	1493.0
50°	5286.8	2727.4	1689.9	1635.8	1708.2	1777.7	1744.9	1651.3	1548.0	1483.4	1474.7
52.5°	5618.8	2844.1	1649.4	1551.9	1633.9	1746.8	1730.4	1635.8	1508.4	1444.8	1433.2
55°	5995.2	2961.9	1598.2	1454.4	1553.8	1732.4	1723.7	1579.9	1478.5	1442.8	1434.1
57.5°	6463.3	3096.0	1530.6	1353.1	1478.5	1680.2	1653.2	1546.1	1447.6	1420.6	1417.7
60°	7073.2	3293.9	1433.2	1245.0	1386.8	1600.1	1594.3	1496.9	1398.4	1379.1	1375.3
62.5°	7988.1	3621.1	1299.0	1136.9	1284.5	1464.1	1517.1	1430.3	1346.3	1345.3	1347.3
65°	9406.8	4113.3	1153.3	1042.3	1181.3	1349.2	1427.4	1361.8	1293.2	1312.5	1315.4
67.5°	11051.3	4521.5	1010.5	949.7	1076.1	1240.2	1346.3	1293.2	1222.8	1273.0	1273.9
70°	11598.6	4156.7	885.0	858.0	967.0	1135.0	1258.5	1218.0	1146.5	1196.7	1191.9
72°	10793.7	3355.6	803.9	788.5	885.0	1048.1	1180.3	1147.5	1077.1	1110.8	1098.3
72.5°	10539.8	3199.3	783.7	771.1	862.8	1025.9	1160.0	1130.1	1059.7	1088.6	1077.1
75°	9402.0	2778.5	673.6	676.5	752.8	917.8	1046.2	1036.5	964.1	967.0	963.2
77.5°	6819.4	2037.3	567.5	586.8	640.8	806.8	931.3	925.5	846.4	831.9	829.0
80°	3164.6	1039.4	462.3	471.0	526.9	674.6	794.3	786.6	722.9	704.5	693.9
82.5°	1083.8	494.1	347.4	353.2	408.2	543.4	689.1	684.3	631.2	595.5	573.3
85°	387.0	246.1	243.2	237.4	291.5	427.5	600.3	574.2	496.1	422.7	420.8
87.5°	125.5	105.2	125.5	124.5	169.9	289.5	436.2	371.6	360.0	299.2	293.4
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)