

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: P193105

Luminaire Tested: **GAN-AF-07-LED-U-T2-7030-800-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193105
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: GAN-AF-07-LED-U-T2-7030-800-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32286.1 lumens
Efficiency: N/A
Efficacy: 109.4 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

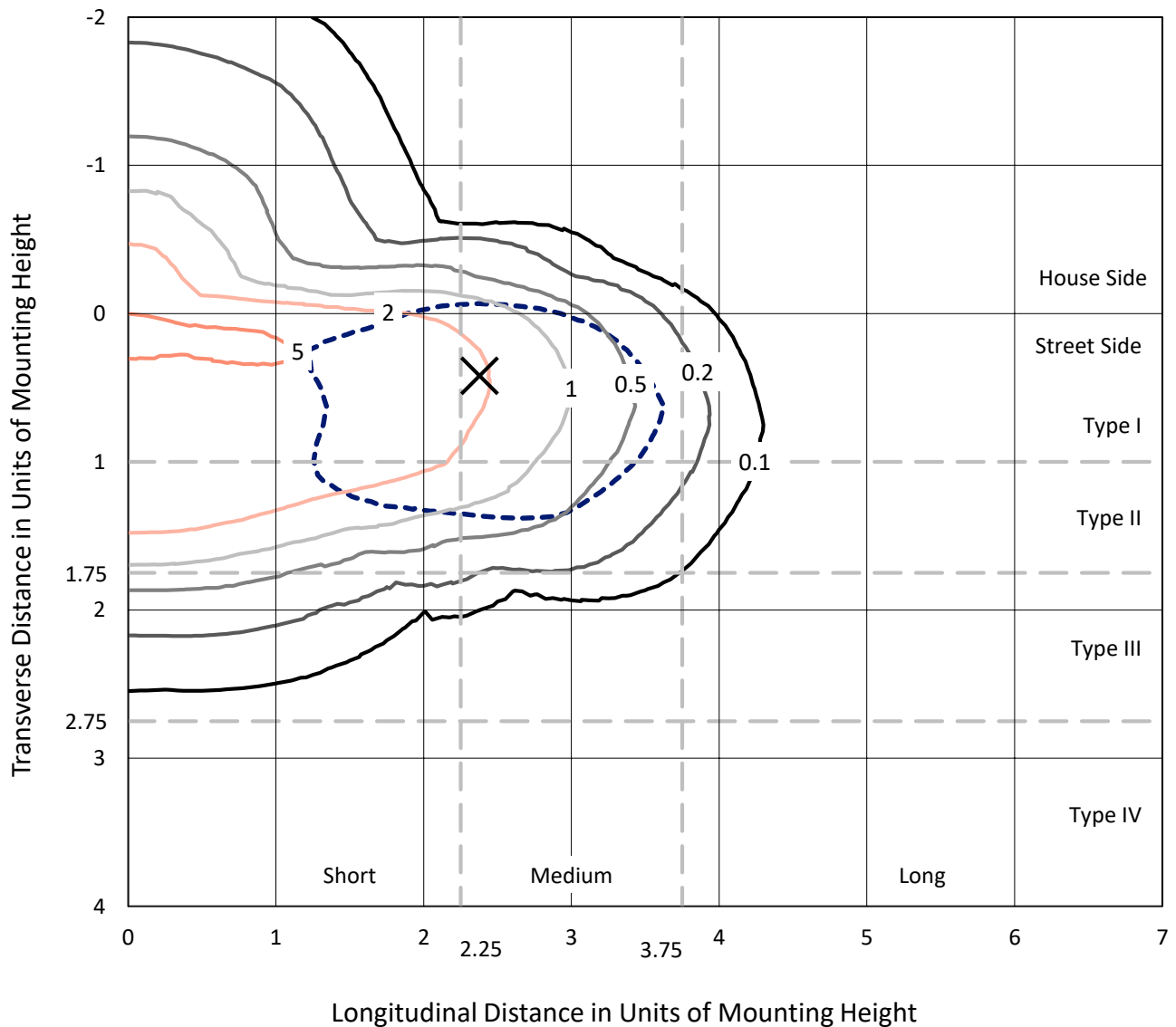
Input Watts (W): 295
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

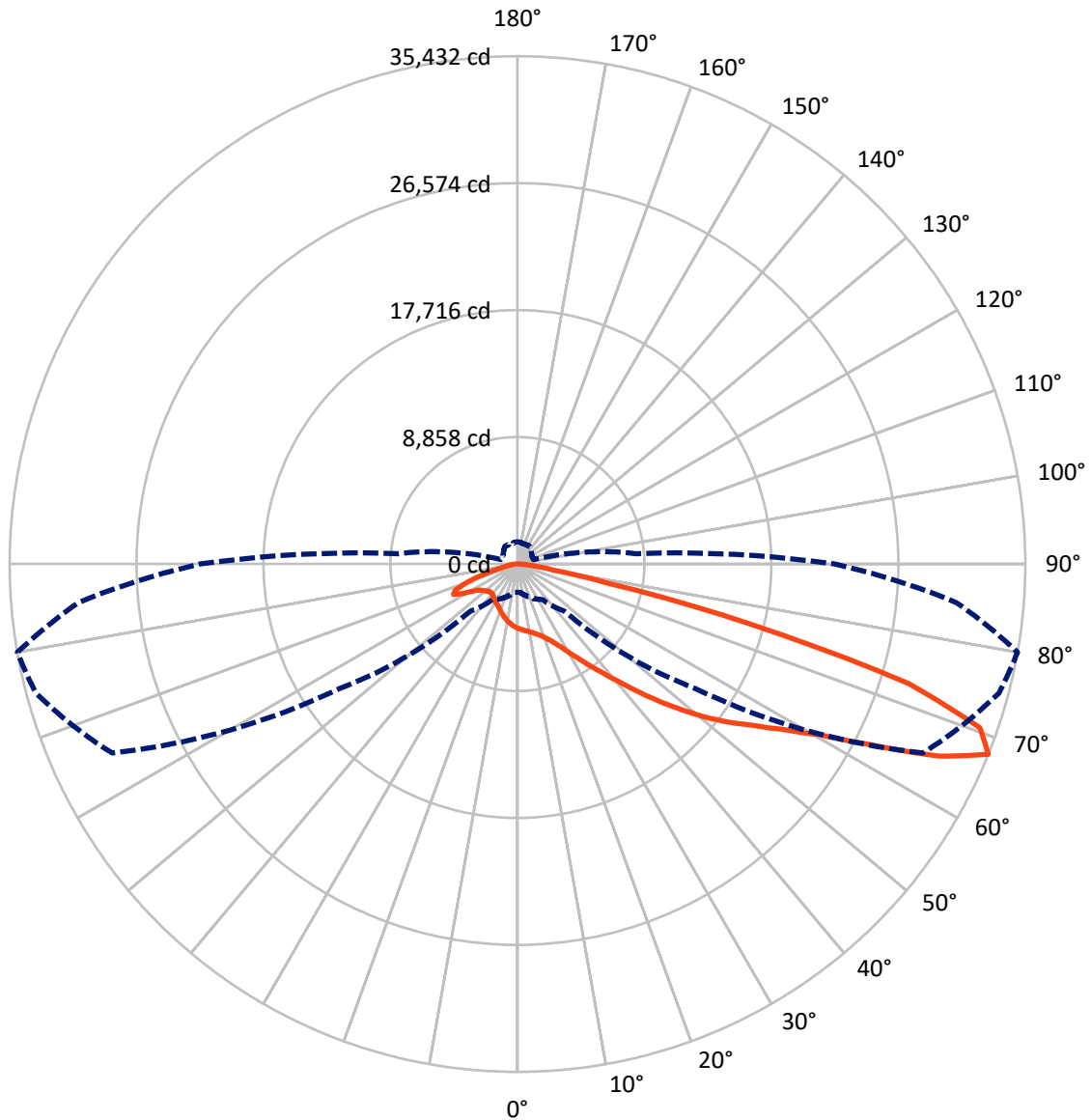


Based on 30 foot mounting height. Maximum calculated value = 6.1 fc
 Type II - Medium - Full Cutoff

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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
House Side	Lumens	5945.9	0.0	5945.9
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	26340.3	0.0	26340.3
	% Fixture	81.6	0.0	81.6
Total	Lumens	32286.1	0.0	32286.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	413.8	1.3
10°-20°	1191.9	3.7
20°-30°	1972.9	6.1
30°-40°	3227.2	10.0
40°-50°	5210.6	16.1
50°-60°	7522.6	23.3
60°-70°	8301.6	25.7
70°-80°	3826.5	11.9
80°-90°	618.9	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°	32286.1	100.0
0°-180°	32286.1	100.0

Coefficient of Utilization



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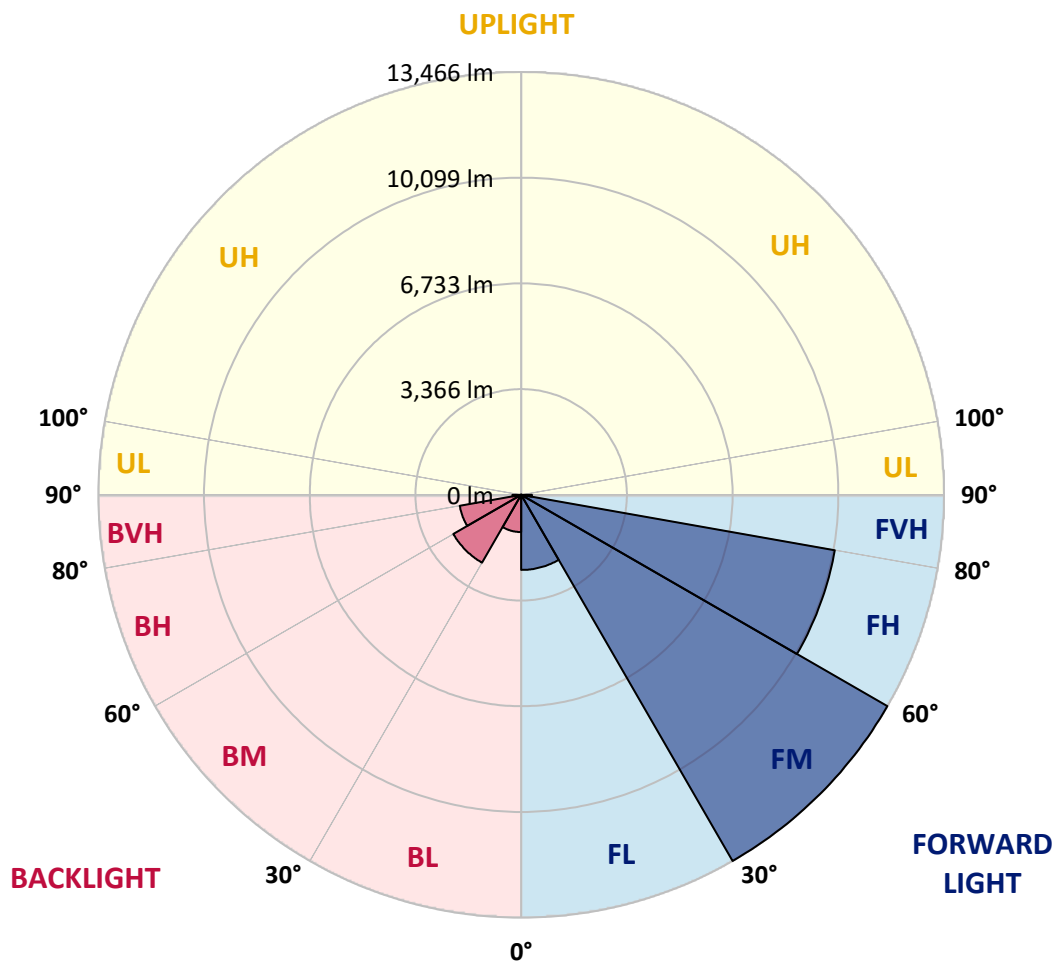
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2392.3	7.4			
FM (30°-60°)	13465.7	41.7			
FH (60°-80°)	10141.9	31.4			G4/12000
FVH (80°-90°)	340.3	1.1			G3/500
BL (0°-30°)	1186.3	3.7	B3/2500		
BM (30°-60°)	2494.7	7.7	B2/2500		
BH (60°-80°)	1986.3	6.2	B3/2500		G3/2500
BVH (80°-90°)	278.7	0.9			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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	4485.5	4485.5	4485.5	4485.5	4485.5	4485.5	4485.5	4485.5	4485.5	4485.5	4485.5
2.5°	4906.8	4878.1	4882.8	4874.9	4851.1	4809.7	4765.3	4684.2	4600.0	4555.4	4520.5
5°	5316.8	5308.8	5297.7	5272.3	5211.8	5126.0	5019.6	4876.5	4722.3	4641.3	4563.3
7.5°	5623.6	5618.7	5604.5	5588.6	5529.7	5426.5	5265.9	5062.4	4838.3	4727.1	4606.3
10°	5648.9	5656.9	5668.1	5711.0	5718.9	5663.2	5499.6	5253.1	4959.2	4816.0	4661.9
12.5°	5432.8	5450.3	5493.2	5603.0	5718.9	5787.3	5703.0	5453.4	5100.6	4927.4	4731.8
15°	5146.6	5156.3	5208.7	5359.7	5568.0	5779.3	5858.8	5674.4	5283.3	5070.4	4836.8
17.5°	5024.3	5029.1	5065.6	5165.8	5359.7	5661.7	5946.2	5914.4	5507.5	5248.4	4965.5
20°	4962.3	4973.5	5025.9	5124.5	5246.8	5510.7	5958.9	6173.4	5774.6	5470.9	5127.6
22.5°	5138.8	5134.0	5153.1	5202.4	5305.6	5464.6	5949.3	6440.5	6114.7	5757.1	5339.1
25°	5550.4	5568.0	5534.5	5479.0	5512.2	5623.6	6000.2	6729.9	6540.7	6124.2	5615.6
27.5°	6137.0	6119.5	6070.2	5939.9	5871.5	5919.2	6168.8	7041.3	7069.9	6607.5	5981.2
30°	6721.8	6707.5	6659.9	6500.9	6361.1	6321.3	6496.1	7398.9	7700.9	7187.6	6429.4
32.5°	7329.0	7313.2	7268.7	7109.7	6941.2	6849.0	6961.9	7812.2	8444.8	7880.6	6957.1
35°	8077.6	8047.5	7953.7	7732.8	7567.4	7495.9	7548.4	8332.0	9303.2	8700.8	7597.7
37.5°	8781.8	8827.9	8732.5	8427.3	8212.8	8187.4	8246.2	8966.2	10228.2	9617.9	8333.5
40°	9489.1	9497.1	9411.3	9161.7	8940.8	8899.3	9047.2	9735.5	11320.3	10714.6	9228.5
42.5°	10220.3	10236.2	10091.5	9861.0	9699.0	9706.9	9875.4	10636.7	12572.7	12006.8	10258.5
45°	11086.5	11110.3	10951.4	10649.4	10501.7	10798.8	10728.9	11647.6	13946.0	13475.5	11441.0
47.5°	11992.6	12029.1	11908.2	11625.4	11441.0	11849.5	11582.5	12768.1	15424.2	15050.7	12739.6
50°	12486.9	12539.3	12656.9	12636.3	12596.5	12528.2	12534.6	13969.9	16948.6	16691.0	14074.8
52.5°	12221.4	12219.9	12649.0	13170.3	13726.7	13768.0	13694.9	15236.6	18372.7	18294.8	15332.1
55°	11007.1	11089.7	11739.8	12749.1	14268.6	15217.5	15433.8	16687.8	19771.4	19862.0	16608.4
57.5°	8985.3	9053.7	9931.0	11337.8	13537.6	16079.0	17906.9	18797.1	21335.4	21758.2	18307.5
60°	6094.1	6176.7	7106.6	8796.1	11569.8	15599.1	20260.9	22561.0	23207.9	24169.5	20691.7
62.5°	3581.1	3655.9	4414.0	5548.8	8146.1	13369.1	21294.1	27915.8	26181.7	27807.8	24328.4
65°	2465.2	2516.1	2884.9	3453.9	4681.0	9004.4	20013.0	31613.0	30757.8	32315.5	28545.3
67.5°	1983.7	1977.3	2269.8	2657.6	3013.6	4642.9	15133.3	31194.9	34782.3	35432.4	30734.0
70°	1634.0	1627.6	1826.3	2147.4	2408.1	2614.7	8242.9	26324.8	33962.1	34226.0	28718.5
72.5°	1367.0	1373.3	1500.4	1738.9	1975.7	1969.4	3622.4	18518.9	26717.3	28542.2	22893.1
75°	1154.0	1157.2	1241.4	1409.9	1603.8	1586.3	1964.6	10032.7	15530.6	16800.7	12690.4
77.5°	982.2	985.5	1039.5	1133.2	1271.6	1265.2	1433.7	4334.6	6478.6	6399.2	4340.9
80°	875.8	875.8	901.3	918.8	995.1	966.4	1063.3	2082.2	2738.7	2528.8	1732.6
82.5°	686.7	689.9	845.5	839.2	783.6	747.0	747.0	1227.1	1451.2	1341.4	1014.0
85°	386.2	384.7	545.2	658.1	689.9	526.1	521.3	686.7	790.0	696.2	491.1
87.5°	165.3	168.5	252.7	292.5	391.0	327.4	322.7	354.4	402.2	348.1	227.3
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°	4485.5	4485.5	4485.5	4485.5	4485.5	4485.5	4485.5	4485.5	4485.5	4485.5	4485.5
2.5°	4487.1	4445.8	4355.2	4242.3	4140.6	4073.8	4013.4	3926.0	3930.7	3870.4	3825.8
5°	4483.9	4398.0	4188.2	3938.7	3698.7	3525.5	3395.1	3277.4	3248.9	3193.2	3159.9
7.5°	4487.1	4347.2	3994.3	3595.4	3298.1	3078.8	2967.6	2905.5	2891.2	2872.2	2873.7
10°	4498.2	4301.1	3781.4	3274.3	2962.8	2818.2	2791.1	2810.1	2832.4	2838.8	2840.4
12.5°	4523.7	4259.8	3547.6	2988.2	2753.0	2708.4	2754.5	2819.8	2862.6	2883.3	2881.7
15°	4580.8	4228.0	3323.5	2764.0	2637.0	2660.8	2746.6	2838.8	2900.9	2929.3	2931.0
17.5°	4642.9	4181.9	3093.1	2592.4	2551.1	2611.6	2718.1	2826.1	2902.4	2934.1	2940.5
20°	4724.0	4124.6	2851.5	2463.7	2470.1	2538.4	2638.5	2746.6	2830.8	2857.9	2870.6
22.5°	4830.4	4062.7	2640.1	2358.8	2377.8	2430.3	2508.1	2602.0	2675.1	2687.8	2698.9
25°	4973.5	3995.9	2471.7	2263.5	2271.4	2301.5	2354.0	2409.6	2460.5	2446.2	2457.3
27.5°	5165.8	3938.7	2346.1	2176.0	2161.7	2168.0	2195.0	2212.5	2239.6	2199.8	2204.7
30°	5391.5	3876.7	2249.1	2099.6	2060.0	2048.8	2055.1	2064.7	2085.4	2031.3	2023.4
32.5°	5653.7	3802.0	2158.5	2032.9	1977.3	1955.0	1958.3	1983.7	2063.2	2029.7	2012.2
35°	5958.9	3717.8	2063.2	1959.8	1921.7	1889.8	1886.7	1966.1	2203.0	2182.4	2166.4
37.5°	6316.5	3633.5	1967.8	1877.2	1880.4	1845.4	1834.3	1924.8	2230.0	2148.9	2137.8
40°	6771.2	3589.0	1886.7	1789.7	1829.4	1824.7	1802.4	1848.5	2052.0	1904.2	1885.2
42.5°	7333.8	3595.4	1826.3	1695.9	1769.1	1819.9	1785.0	1786.6	1859.7	1748.3	1730.8
45°	8028.4	3670.1	1783.3	1621.3	1700.7	1815.2	1778.6	1753.2	1759.5	1700.7	1691.3
47.5°	8839.1	3824.3	1753.2	1559.2	1635.6	1797.7	1777.0	1743.7	1729.3	1697.6	1689.5
50°	9740.3	4048.4	1730.8	1500.4	1576.7	1769.1	1778.6	1734.2	1718.2	1705.5	1700.7
52.5°	10625.6	4304.3	1697.6	1449.6	1530.6	1734.2	1783.3	1724.5	1707.0	1697.6	1692.8
55°	11612.6	4623.8	1646.6	1406.7	1492.5	1689.5	1783.3	1710.2	1691.3	1692.8	1691.3
57.5°	12946.2	5140.3	1586.3	1370.1	1446.4	1635.6	1753.2	1694.4	1670.6	1672.1	1673.8
60°	15030.0	6051.1	1513.1	1333.6	1389.2	1572.0	1711.9	1659.4	1635.6	1641.9	1643.5
62.5°	18094.5	7387.9	1417.8	1279.5	1328.8	1503.6	1654.6	1614.9	1591.1	1606.9	1606.9
65°	21279.8	8567.2	1300.1	1211.1	1265.2	1428.9	1583.0	1559.2	1535.4	1572.0	1570.4
67.5°	22136.5	8303.3	1182.5	1136.6	1201.7	1346.3	1497.3	1484.7	1471.8	1535.4	1532.3
70°	19664.9	6666.2	1074.4	1060.2	1131.7	1257.2	1405.1	1405.1	1397.1	1444.9	1433.7
72.5°	14982.2	4727.1	971.2	979.1	1052.2	1160.4	1305.0	1316.0	1303.4	1327.2	1317.6
75°	8020.5	2705.3	867.8	890.1	953.8	1061.8	1193.6	1204.8	1196.8	1195.3	1200.0
77.5°	2665.5	1322.5	759.8	794.8	850.4	960.1	1077.7	1095.1	1076.1	1072.9	1071.3
80°	1187.3	831.3	640.6	686.7	736.0	844.0	955.3	969.5	948.9	977.6	940.9
82.5°	762.9	546.8	513.4	564.3	612.0	728.0	832.9	836.1	817.0	948.9	809.1
85°	370.4	338.6	386.2	432.3	473.6	572.2	689.9	691.4	643.7	586.5	565.9
87.5°	184.4	197.1	257.6	298.9	319.5	392.6	502.3	492.8	472.1	429.2	395.7
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)