

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: P192705

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192705
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24165)
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-AFL-7030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33752.4 lumens
Efficiency: N/A
Efficacy: 114.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B3 - U0 - G3

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



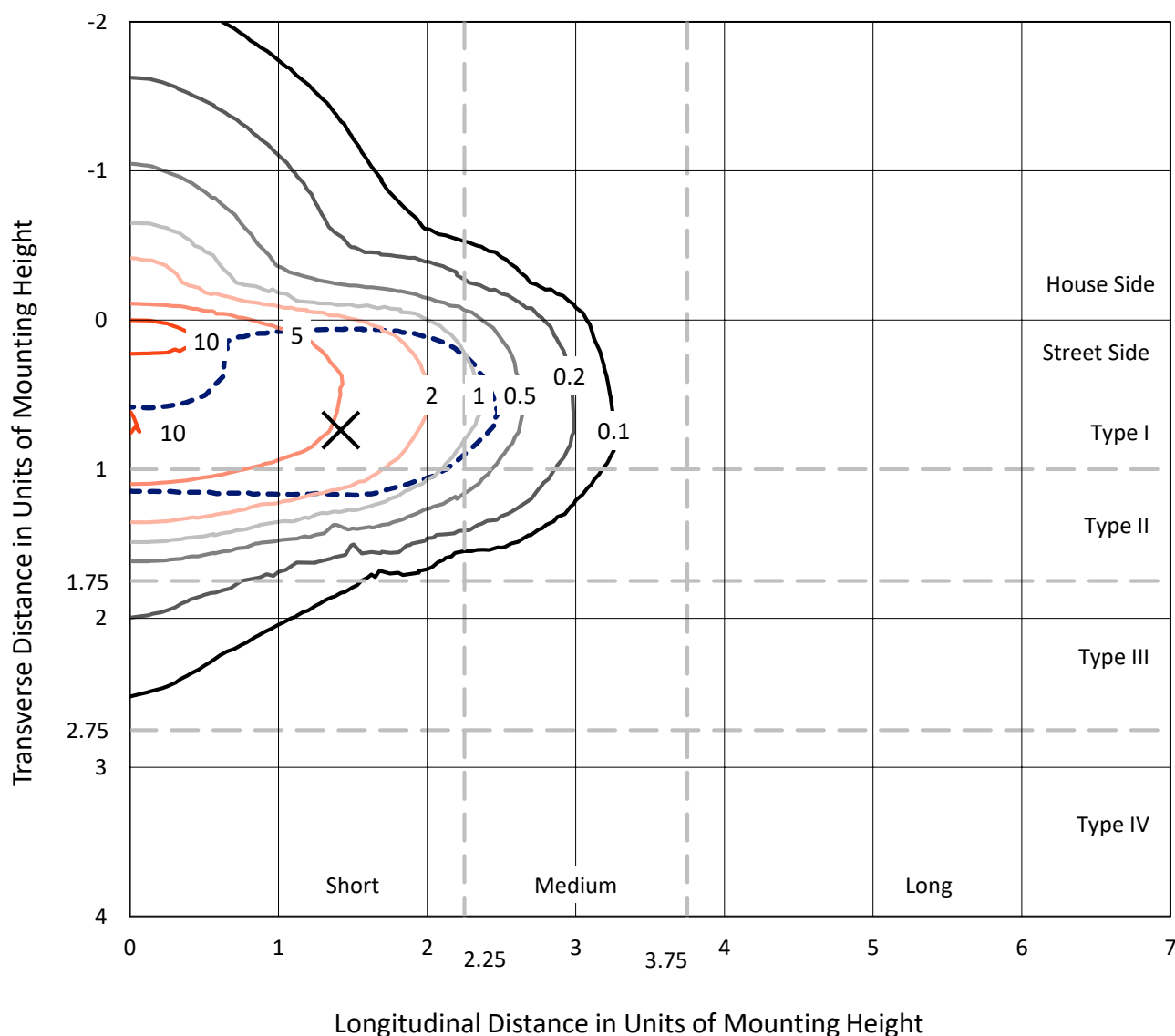
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

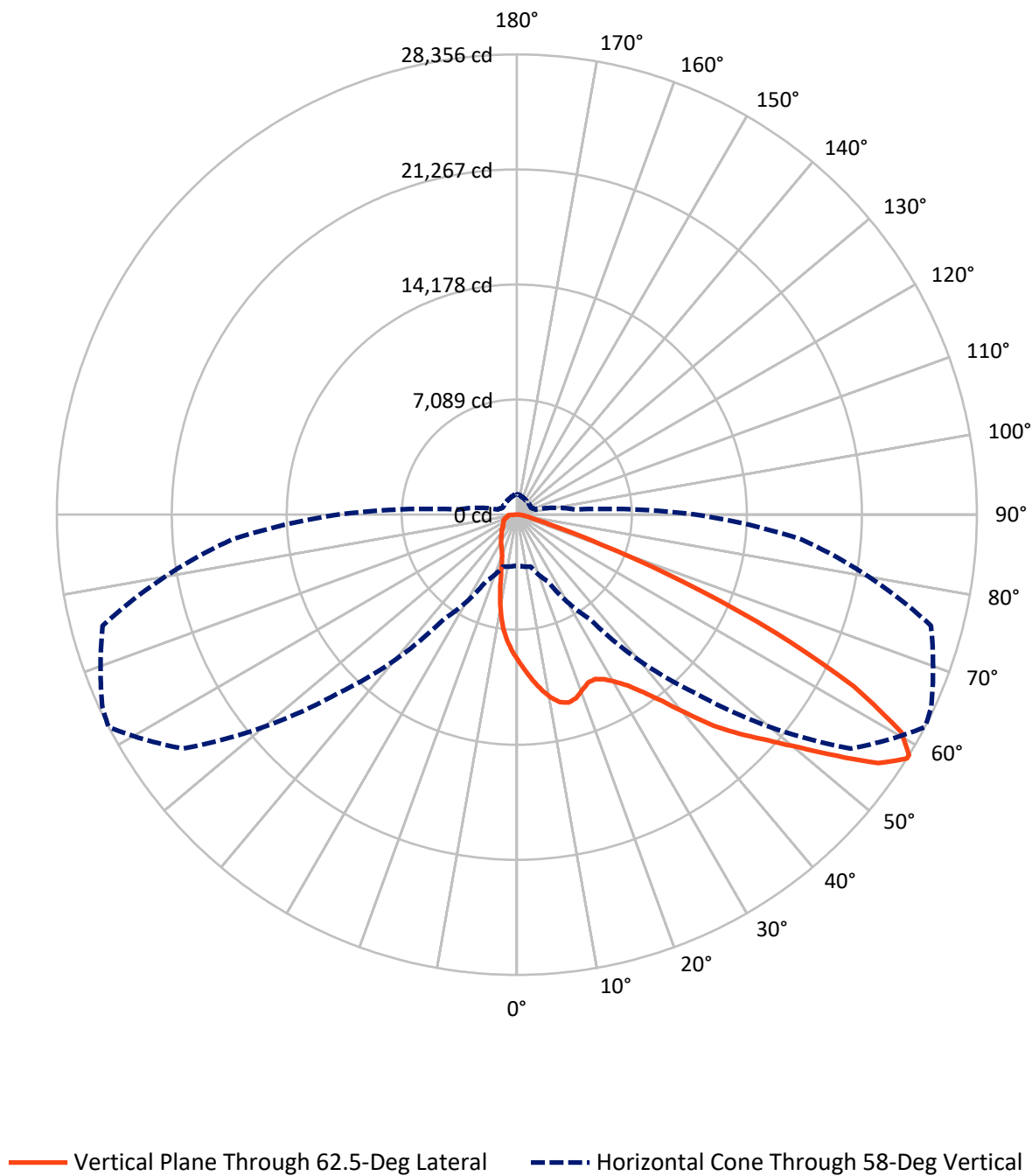


Based on 30 foot mounting height. Maximum calculated value = 12.1 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5147.4	0.0	5147.4
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	28605.0	0.0	28605.0
	% Fixture	84.7	0.0	84.7
Total	Lumens	33752.4	0.0	33752.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	801.8	2.4
10°-20°	2049.6	6.1
20°-30°	3313.3	9.8
30°-40°	5259.8	15.6
40°-50°	7696.3	22.8
50°-60°	8049.6	23.8
60°-70°	4755.7	14.1
70°-80°	1339.7	4.0
80°-90°	486.4	1.4
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°	33752.4	100.0
0°-180°	33752.4	100.0

Coefficient of Utilization



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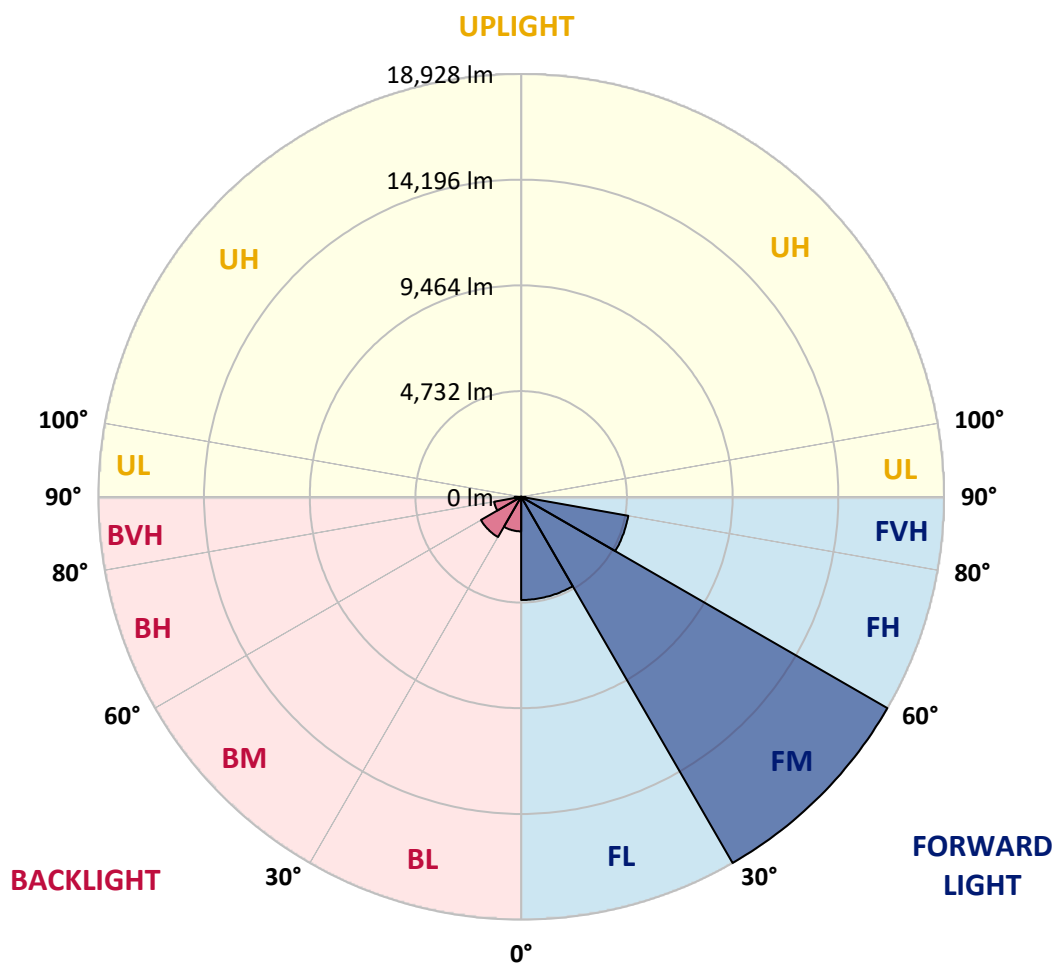
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4617.7	13.7			
FM	(30°-60°)	18928.1	56.1			
FH	(60°-80°)	4867.2	14.4			G2/5000
FVH	(80°-90°)	191.9	0.6			G2/225
BL	(0°-30°)	1547.0	4.6	B3/2500		
BM	(30°-60°)	2077.6	6.2	B2/2500		
BH	(60°-80°)	1228.2	3.6	B3/2500		G3/2500
BVH	(80°-90°)	294.5	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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	8965.6	8965.6	8965.6	8965.6	8965.6	8965.6	8965.6	8965.6	8965.6	8965.6	8965.6
2.5°	10245.0	10162.4	10110.0	10063.9	10003.4	9874.8	9701.4	9591.9	9536.2	9347.1	9122.9
5°	11249.6	11176.4	11122.4	11060.5	10952.3	10750.4	10470.8	10248.3	10138.6	9760.3	9312.1
7.5°	11014.3	11044.5	11138.3	11302.0	11441.8	11414.9	11165.3	10882.4	10737.8	10211.7	9531.4
10°	9596.6	9649.0	9811.2	10194.2	10814.1	11449.9	11643.8	11448.1	11302.0	10658.4	9757.2
12.5°	9312.1	9310.5	9323.2	9424.9	9793.7	10688.5	11659.6	11856.7	11769.3	11084.3	9987.6
15°	9428.1	9431.4	9421.8	9464.7	9579.1	9933.6	11173.3	12014.0	12076.0	11513.4	10226.0
17.5°	9733.3	9725.3	9688.8	9688.8	9730.1	9868.4	10601.1	11867.8	12153.9	11893.2	10435.8
20°	10245.0	10208.5	10111.6	10022.6	9978.1	10052.7	10365.9	11530.9	12018.8	12225.4	10609.1
22.5°	10865.0	10836.4	10679.0	10488.3	10334.1	10332.5	10486.7	11236.9	11785.1	12538.5	10755.3
25°	11665.9	11619.8	11386.2	11081.1	10810.8	10707.6	10750.4	11222.6	11658.1	12878.6	10885.6
27.5°	12606.9	12522.6	12246.1	11805.8	11408.6	11200.2	11138.3	11481.6	11774.0	13299.8	11066.8
30°	13748.1	13651.1	13296.7	12722.9	12161.8	11820.1	11688.2	11941.0	12158.7	13813.2	11357.6
32.5°	15046.5	14906.7	14496.6	13864.0	13126.6	12605.2	12390.8	12548.1	12721.3	14431.5	11721.6
35°	16841.0	16674.0	16081.3	15208.7	14375.8	13659.0	13315.8	13430.1	13598.6	15353.3	12247.6
37.5°	18064.8	17990.1	17595.8	16775.7	15869.8	15045.0	14514.1	14580.8	14676.2	16505.6	12921.5
40°	18053.7	18083.8	18091.8	18099.8	17483.0	16693.1	16122.6	16052.6	16033.6	17770.7	13687.7
42.5°	17149.4	17273.3	17673.8	18485.9	18861.0	18498.6	17975.8	17773.9	17673.8	19261.6	14499.8
45°	15764.9	15831.6	16581.8	18168.0	19566.7	20286.7	19890.9	19255.2	19074.1	20631.7	15173.7
47.5°	15051.3	15124.4	15596.4	17325.7	19558.8	21731.4	21960.3	20749.2	20424.9	21823.7	15755.4
50°	13352.2	13504.9	14099.3	15860.3	18845.1	22395.8	24123.5	22529.3	21858.6	22983.9	16338.7
52.5°	10232.3	10467.6	11133.5	13450.8	17034.8	22066.8	25854.2	24687.6	23740.4	24185.4	16839.4
55°	6454.4	6629.3	7188.7	9499.6	13627.3	20355.0	26510.6	27022.4	26180.0	25323.4	17273.3
57.5°	3509.3	3587.2	3797.0	5244.9	8863.8	16570.8	25553.9	28351.1	28001.5	26289.8	17600.7
58°	3140.5	3193.0	3323.3	4545.6	7860.9	15536.1	25129.5	28355.9	28181.1	26431.2	17626.1
60°	2330.1	2302.9	2187.0	2593.9	4375.5	10733.0	22564.2	27221.1	27734.5	26604.4	17502.1
62.5°	2047.1	1982.0	1745.1	1718.1	2128.2	4944.5	17265.3	23317.7	24530.4	25615.9	16748.8
65°	1923.2	1853.2	1548.1	1449.6	1535.3	2091.7	10170.4	17487.8	19008.8	22618.3	14822.4
67.5°	1830.9	1740.4	1422.4	1287.4	1293.7	1382.7	4076.7	11014.3	12726.1	17173.2	11529.2
70°	1741.9	1643.4	1316.0	1160.3	1123.7	1093.4	1621.2	5513.6	7066.4	10847.5	7350.9
72.5°	1646.5	1549.7	1222.2	1060.2	988.6	888.5	1058.5	2255.3	3150.2	5132.1	3334.5
75°	1508.4	1420.9	1128.4	971.1	869.3	735.9	799.4	1177.7	1412.9	2043.9	1606.8
77.5°	1338.2	1266.8	1023.5	898.0	770.9	597.6	615.1	816.9	906.0	1169.7	955.3
80°	961.6	987.0	910.6	807.4	686.5	484.8	472.0	596.0	643.6	751.8	621.4
82.5°	675.4	689.8	753.4	659.6	567.4	381.5	348.1	419.5	448.2	494.3	335.3
85°	465.7	449.8	516.6	459.3	410.0	254.2	238.4	284.5	302.0	306.8	173.2
87.5°	279.7	279.7	298.9	246.4	220.9	131.8	128.7	162.1	173.2	165.3	95.4
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°	8965.6	8965.6	8965.6	8965.6	8965.6	8965.6	8965.6	8965.6	8965.6	8965.6	8965.6
2.5°	8989.6	8876.7	8636.6	8444.3	8201.1	7948.4	7807.0	7656.1	7552.6	7478.0	7597.3
5°	9057.8	8827.4	8331.4	7860.9	7341.3	6801.0	6390.9	6009.4	5744.0	5578.7	5734.5
7.5°	9165.9	8811.4	8021.6	7217.3	6284.4	5384.8	4580.5	4076.7	3782.7	3638.2	3728.7
10°	9289.9	8786.1	7657.6	6344.8	5009.6	3876.5	3275.7	3072.3	3005.5	2978.5	2991.2
12.5°	9393.1	8732.0	7211.0	5289.5	3762.1	3061.1	2887.8	2883.2	2897.4	2900.7	2905.3
15°	9466.3	8652.6	6548.2	4189.5	3008.7	2789.4	2779.8	2808.4	2835.4	2846.5	2852.9
17.5°	9515.5	8488.8	5799.6	3312.2	2695.5	2657.4	2679.7	2716.1	2744.8	2752.8	2759.2
20°	9510.8	8248.8	4907.9	2762.3	2525.5	2525.5	2563.7	2592.2	2593.9	2584.3	2589.1
22.5°	9461.6	7919.8	4043.3	2470.0	2374.5	2401.5	2439.6	2412.7	2301.4	2228.4	2233.0
25°	9378.9	7527.2	3302.7	2283.9	2234.7	2282.3	2271.2	2067.7	1908.9	1837.3	1837.3
27.5°	9305.7	7063.2	2733.6	2121.9	2094.8	2153.6	1956.5	1772.1	1705.4	1672.0	1660.8
30°	9253.2	6562.5	2353.9	1966.0	1962.9	1919.9	1697.5	1646.5	1635.5	1608.4	1598.9
32.5°	9266.1	6055.4	2110.7	1829.3	1840.5	1643.4	1573.5	1584.6	1575.1	1546.4	1533.8
35°	9370.9	5574.0	1951.7	1705.4	1672.0	1484.5	1500.3	1521.0	1517.8	1478.1	1465.3
37.5°	9558.4	5117.8	1846.8	1602.1	1459.0	1405.0	1430.4	1462.2	1454.2	1427.3	1417.7
40°	9755.5	4688.7	1761.0	1521.0	1333.5	1351.0	1373.2	1390.7	1398.6	1406.6	1400.2
42.5°	9947.8	4240.5	1656.2	1438.4	1281.1	1300.0	1309.7	1327.2	1370.0	1400.2	1398.6
45°	10062.3	3819.2	1548.1	1320.7	1239.6	1250.8	1244.5	1279.4	1331.9	1381.1	1382.7
47.5°	10189.4	3491.8	1462.2	1212.7	1200.0	1208.0	1188.8	1223.8	1271.4	1331.9	1338.2
50°	10343.6	3296.4	1393.9	1126.9	1145.9	1145.9	1141.2	1173.0	1239.6	1309.7	1322.4
52.5°	10518.4	3258.2	1336.7	1064.8	1091.9	1090.3	1095.1	1142.8	1215.8	1284.3	1295.4
55°	10731.5	3361.5	1274.7	1018.8	1039.5	1045.8	1061.7	1115.7	1177.7	1255.6	1260.5
57.5°	10979.4	3571.3	1225.5	982.2	991.7	1012.4	1037.9	1087.1	1153.9	1239.6	1244.5
58°	11020.7	3615.8	1217.4	979.1	982.2	1006.1	1034.6	1082.3	1149.1	1243.0	1247.6
60°	11022.3	3763.7	1200.0	964.8	945.6	985.4	1017.2	1064.8	1141.2	1254.0	1265.1
62.5°	10631.3	3762.1	1187.2	944.1	907.5	956.8	993.3	1049.0	1133.2	1281.1	1303.3
65°	9361.4	3418.7	1126.9	912.4	877.4	931.3	972.7	1037.9	1155.4	1398.6	1412.9
67.5°	7322.2	2802.1	1014.0	867.8	837.6	906.0	960.0	1036.3	1179.4	1425.7	1435.2
70°	4841.2	2096.3	890.0	816.9	796.3	875.7	966.3	1090.3	1152.2	1368.5	1343.1
72.5°	2512.8	1471.7	790.0	753.4	748.7	848.7	1058.5	1084.0	1125.3	1287.4	1255.6
75°	1319.2	1022.0	702.5	683.4	691.4	842.4	1249.3	1055.3	1090.3	1231.8	1292.2
77.5°	807.4	824.9	627.8	619.8	635.8	823.3	1247.6	1018.8	1039.5	1133.2	1200.0
80°	540.4	669.1	570.6	572.2	583.3	753.4	1120.5	961.6	977.5	1071.3	1139.6
82.5°	341.8	395.7	518.1	545.2	530.9	621.4	952.0	875.7	898.0	1225.5	1295.4
85°	173.2	247.9	449.8	524.5	478.4	435.5	772.5	767.6	778.8	883.7	923.5
87.5°	79.4	136.7	351.3	457.7	360.8	271.7	561.0	569.0	613.5	627.8	627.8
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)