

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: P299011

Luminaire Tested: **GAA-AF-07-LED-U-T2-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299011
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-07-LED-U-T2-7027-600
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Type II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23566.9 lumens
Efficiency: N/A
Efficacy: 104.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B3 - U0 - G3

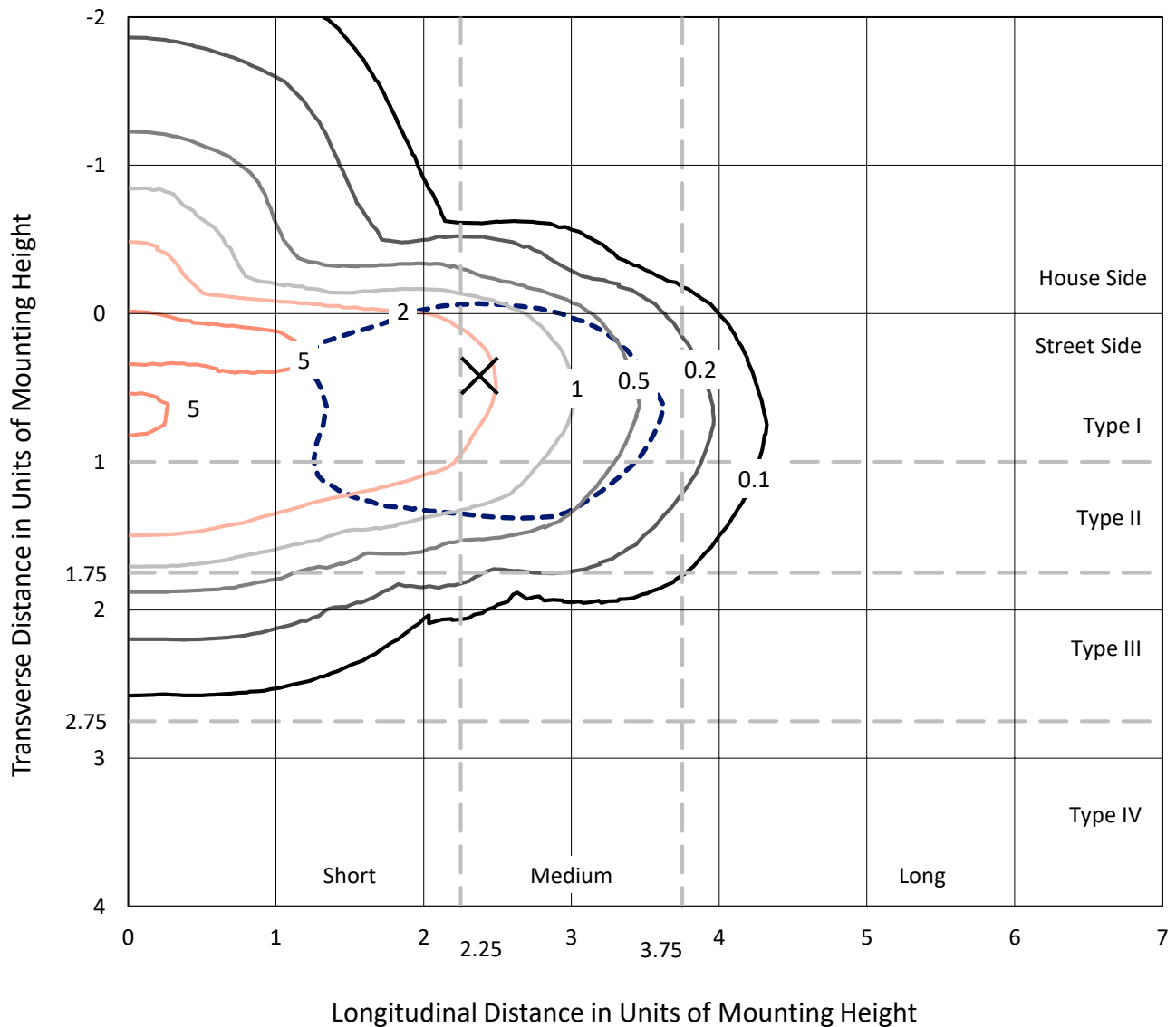
Input Watts (W): 226
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P299011
 CATALOG NUMBER: GAA-AF-07-LED-U-T2-7027-600

Iso-Footcandle Lines of Horizontal Illumination

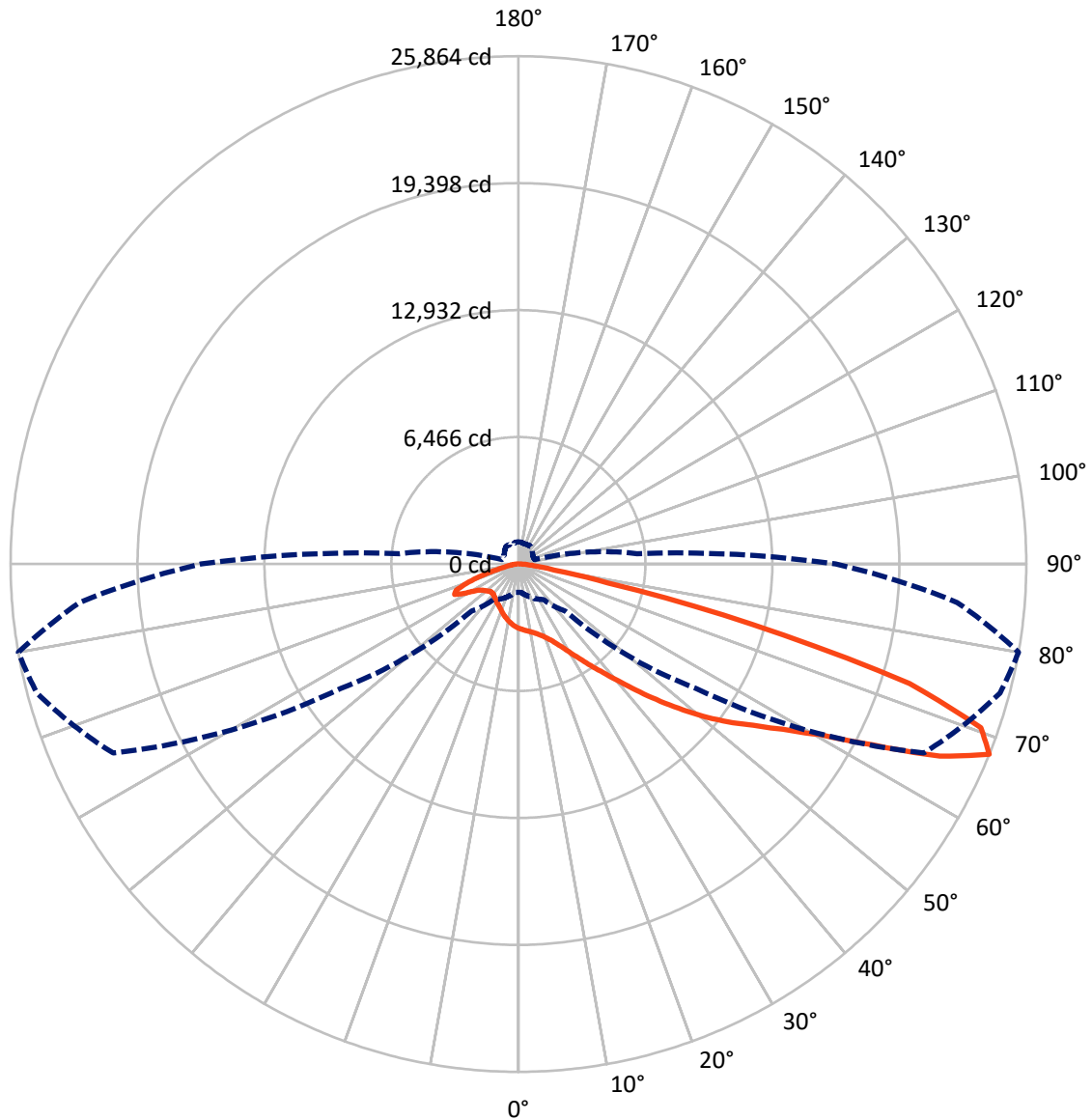
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc
 Type II - Medium - Full Cutoff

REPORT NUMBER: P299011
CATALOG NUMBER: GAA-AF-07-LED-U-T2-7027-600

Luminous Intensity Polar Plot



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



REPORT NUMBER: P299011

CATALOG NUMBER: GAA-AF-07-LED-U-T2-7027-600

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4340.1	0.0	4340.1
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	19226.8	0.0	19226.8
	% Fixture	81.6	0.0	81.6
Total	Lumens	23566.9	0.0	23566.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	302.0	1.3
10°-20°	870.0	3.7
20°-30°	1440.1	6.1
30°-40°	2355.6	10.0
40°-50°	3803.4	16.1
50°-60°	5491.0	23.3
60°-70°	6059.7	25.7
70°-80°	2793.1	11.9
80°-90°	451.8	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°	23566.9	100.0
0°-180°	23566.9	100.0

Coefficient of Utilization



REPORT NUMBER: P299011

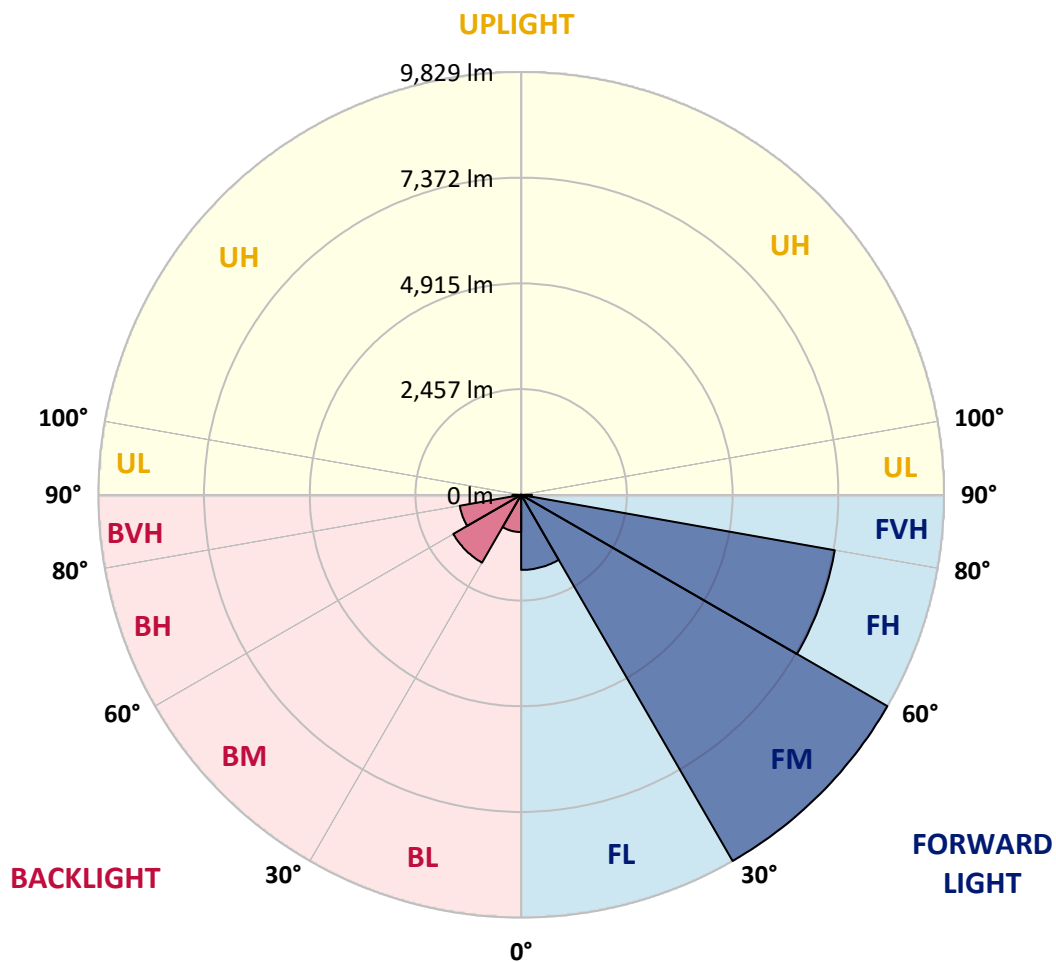
CATALOG NUMBER: GAA-AF-07-LED-U-T2-7027-600

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1746.3	7.4			
FM	(30°-60°)	9829.1	41.7			
FH	(60°-80°)	7403.0	31.4			G3/7500
FVH	(80°-90°)	248.4	1.1			G3/500
BL	(0°-30°)	865.9	3.7	B2/1000		
BM	(30°-60°)	1821.0	7.7	B2/2500		
BH	(60°-80°)	1449.9	6.2	B3/2500		G3/2500
BVH	(80°-90°)	203.4	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-G3

Type II Medium





REPORT NUMBER: P299011

CATALOG NUMBER: GAA-AF-07-LED-U-T2-7027-600

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	3274.1	3274.1	3274.1	3274.1	3274.1	3274.1	3274.1	3274.1	3274.1	3274.1	3274.1
2.5°	3581.6	3560.7	3564.2	3558.4	3541.0	3510.8	3478.3	3419.2	3357.7	3325.2	3299.6
5°	3880.9	3875.1	3867.0	3848.4	3804.3	3741.7	3664.0	3559.5	3447.0	3387.8	3331.0
7.5°	4104.8	4101.4	4090.9	4079.3	4036.4	3961.0	3843.8	3695.3	3531.7	3450.5	3362.3
10°	4123.4	4129.2	4137.3	4168.7	4174.5	4133.8	4014.3	3834.5	3619.9	3515.4	3402.9
12.5°	3965.6	3978.4	4009.7	4089.8	4174.5	4224.3	4162.8	3980.7	3723.1	3596.7	3454.0
15°	3756.8	3763.7	3802.0	3912.2	4064.2	4218.5	4276.6	4142.0	3856.6	3701.1	3530.5
17.5°	3667.4	3670.9	3697.6	3770.7	3912.2	4132.7	4340.4	4317.2	4020.1	3831.0	3624.5
20°	3622.2	3630.3	3668.6	3740.5	3829.9	4022.5	4349.6	4506.3	4215.1	3993.5	3742.9
22.5°	3751.0	3747.5	3761.4	3797.4	3872.8	3988.8	4342.7	4701.2	4463.3	4202.3	3897.2
25°	4051.5	4064.2	4039.9	3999.3	4023.6	4104.8	4379.8	4912.3	4774.3	4470.3	4099.0
27.5°	4479.6	4466.8	4430.9	4335.7	4285.8	4320.6	4502.8	5139.7	5160.6	4823.0	4365.9
30°	4906.5	4896.1	4861.3	4745.3	4643.2	4614.2	4741.8	5400.8	5621.2	5246.5	4693.1
32.5°	5349.7	5338.1	5305.7	5189.6	5066.7	4999.4	5081.7	5702.5	6164.2	5752.3	5078.3
35°	5896.2	5874.2	5805.7	5644.4	5523.8	5471.6	5509.9	6081.8	6790.7	6351.0	5545.8
37.5°	6410.2	6443.8	6374.2	6151.5	5994.8	5976.3	6019.2	6544.8	7466.0	7020.5	6083.0
40°	6926.5	6932.3	6869.6	6687.5	6526.2	6496.0	6603.9	7106.3	8263.0	7821.0	6736.2
42.5°	7460.2	7471.8	7366.2	7198.0	7079.6	7085.4	7208.4	7764.2	9177.3	8764.3	7488.0
45°	8092.5	8109.9	7993.9	7773.4	7665.5	7882.5	7831.4	8502.1	10179.7	9836.3	8351.2
47.5°	8753.8	8780.5	8692.3	8485.8	8351.2	8649.4	8454.5	9320.0	11258.7	10986.1	9299.1
50°	9114.6	9152.9	9238.8	9223.7	9194.7	9144.8	9149.5	10197.1	12371.4	12183.4	10273.7
52.5°	8920.9	8919.7	9233.0	9613.5	10019.6	10049.8	9996.4	11121.8	13410.9	13354.1	11191.4
55°	8034.5	8094.8	8569.3	9306.1	10415.2	11107.9	11265.7	12181.1	14431.9	14498.0	12123.1
57.5°	6558.7	6608.6	7249.0	8275.8	9881.5	11736.7	13071.0	13720.7	15573.6	15882.2	13363.3
60°	4448.3	4508.6	5187.3	6420.6	8445.2	11386.3	14789.3	16468.1	16940.3	17642.2	15103.7
62.5°	2614.0	2668.5	3221.9	4050.3	5946.1	9758.6	15543.4	20376.8	19111.1	20298.0	17758.2
65°	1799.5	1836.6	2105.8	2521.1	3416.8	6572.6	14608.3	23075.5	22451.3	23588.3	20836.3
67.5°	1447.9	1443.3	1656.8	1939.9	2199.8	3389.0	11046.4	22770.4	25389.0	25863.5	22433.9
70°	1192.7	1188.1	1333.1	1567.4	1757.7	1908.6	6016.9	19215.5	24790.3	24982.9	20962.8
72.5°	997.8	1002.4	1095.2	1269.3	1442.1	1437.5	2644.1	13517.7	19502.0	20834.0	16710.6
75°	842.3	844.6	906.1	1029.1	1170.7	1157.9	1434.0	7323.3	11336.5	12263.5	9263.2
77.5°	717.0	719.3	758.8	827.2	928.2	923.5	1046.5	3163.9	4729.0	4671.0	3168.5
80°	639.3	639.3	657.8	670.6	726.3	705.4	776.2	1519.9	1999.0	1845.9	1264.6
82.5°	501.2	503.5	617.2	612.6	572.0	545.3	545.3	895.7	1059.3	979.2	740.2
85°	281.9	280.8	398.0	480.3	503.5	384.0	380.6	501.2	576.6	508.2	358.5
87.5°	120.7	123.0	184.5	213.5	285.4	239.0	235.5	258.7	293.5	254.1	165.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P299011
 CATALOG NUMBER: GAA-AF-07-LED-U-T2-7027-600

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3274.1	3274.1	3274.1	3274.1	3274.1	3274.1	3274.1	3274.1	3274.1	3274.1	3274.1
2.5°	3275.3	3245.1	3179.0	3096.6	3022.4	2973.6	2929.5	2865.7	2869.2	2825.1	2792.6
5°	3273.0	3210.3	3057.2	2875.0	2699.8	2573.4	2478.2	2392.4	2371.5	2330.9	2306.5
7.5°	3275.3	3173.2	2915.6	2624.4	2407.4	2247.3	2166.1	2120.9	2110.4	2096.5	2097.7
10°	3283.4	3139.5	2760.2	2390.0	2162.6	2057.1	2037.3	2051.3	2067.5	2072.1	2073.3
12.5°	3302.0	3109.4	2589.6	2181.2	2009.5	1977.0	2010.7	2058.2	2089.5	2104.6	2103.5
15°	3343.7	3086.2	2426.0	2017.6	1924.8	1942.2	2004.9	2072.1	2117.4	2138.3	2139.4
17.5°	3389.0	3052.5	2257.8	1892.3	1862.1	1906.2	1984.0	2062.9	2118.6	2141.8	2146.4
20°	3448.2	3010.8	2081.4	1798.3	1803.0	1852.9	1926.0	2004.9	2066.3	2086.1	2095.3
22.5°	3525.9	2965.5	1927.1	1721.8	1735.7	1774.0	1830.8	1899.3	1952.6	1961.9	1970.0
25°	3630.3	2916.8	1804.1	1652.1	1657.9	1680.0	1718.3	1758.9	1796.0	1785.6	1793.7
27.5°	3770.7	2875.0	1712.5	1588.3	1577.9	1582.5	1602.3	1615.0	1634.7	1605.7	1609.2
30°	3935.4	2829.8	1641.7	1532.6	1503.6	1495.5	1500.2	1507.1	1522.2	1482.8	1477.0
32.5°	4126.9	2775.2	1575.6	1483.9	1443.3	1427.1	1429.4	1447.9	1506.0	1481.6	1468.8
35°	4349.6	2713.7	1506.0	1430.5	1402.7	1379.5	1377.2	1435.2	1608.1	1593.0	1581.4
37.5°	4610.7	2652.3	1436.3	1370.2	1372.5	1347.0	1338.9	1405.0	1627.8	1568.6	1560.5
40°	4942.5	2619.8	1377.2	1306.4	1335.4	1331.9	1315.7	1349.3	1497.8	1389.9	1376.0
42.5°	5353.2	2624.4	1333.1	1237.9	1291.3	1328.4	1302.9	1304.1	1357.5	1276.2	1263.5
45°	5860.2	2678.9	1301.8	1183.4	1241.4	1325.0	1298.3	1279.7	1284.4	1241.4	1234.5
47.5°	6452.0	2791.5	1279.7	1138.2	1193.9	1312.2	1297.1	1272.8	1262.3	1239.1	1233.3
50°	7109.8	2955.1	1263.5	1095.2	1150.9	1291.3	1298.3	1265.8	1254.2	1244.9	1241.4
52.5°	7756.0	3141.9	1239.1	1058.1	1117.3	1265.8	1301.8	1258.8	1246.1	1239.1	1235.6
55°	8476.5	3375.1	1202.0	1026.8	1089.4	1233.3	1301.8	1248.4	1234.5	1235.6	1234.5
57.5°	9449.9	3752.1	1157.9	1000.1	1055.8	1193.9	1279.7	1236.8	1219.4	1220.5	1221.7
60°	10971.0	4416.9	1104.5	973.4	1014.0	1147.5	1249.6	1211.3	1193.9	1198.5	1199.7
62.5°	13207.9	5392.7	1034.9	934.0	969.9	1097.6	1207.8	1178.8	1161.4	1173.0	1173.0
65°	15533.0	6253.6	949.1	884.1	923.5	1043.0	1155.6	1138.2	1120.8	1147.5	1146.3
67.5°	16158.3	6061.0	863.2	829.6	877.1	982.7	1092.9	1083.6	1074.4	1120.8	1118.4
70°	14354.2	4865.9	784.3	773.9	826.1	917.7	1025.6	1025.6	1019.8	1054.6	1046.5
72.5°	10936.2	3450.5	708.9	714.7	768.1	847.0	952.5	960.7	951.4	968.8	961.8
75°	5854.4	1974.7	633.5	649.7	696.1	775.0	871.3	879.4	873.6	872.5	876.0
77.5°	1945.7	965.3	554.6	580.1	620.7	700.8	786.6	799.4	785.5	783.1	782.0
80°	866.7	606.8	467.6	501.2	537.2	616.1	697.3	707.7	692.6	713.5	686.8
82.5°	556.9	399.1	374.7	411.9	446.7	531.4	608.0	610.3	596.4	692.6	590.5
85°	270.3	247.1	281.9	315.6	345.7	417.7	503.5	504.7	469.9	428.1	413.0
87.5°	134.6	143.9	188.0	218.1	233.2	286.6	366.6	359.7	344.6	313.3	288.9
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)