

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: P269776

Luminaire Tested: **GAP-AF-01-LED-U-AFL-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269776
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: GAP-AF-01-LED-U-AFL-7027-800
Description: GALLEON PEDESTRIAN LUMINAIRE
(1) 70 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4577.6 lumens
Efficiency: N/A
Efficacy: 104.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - U0 - G1

Input Watts (W): 44
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



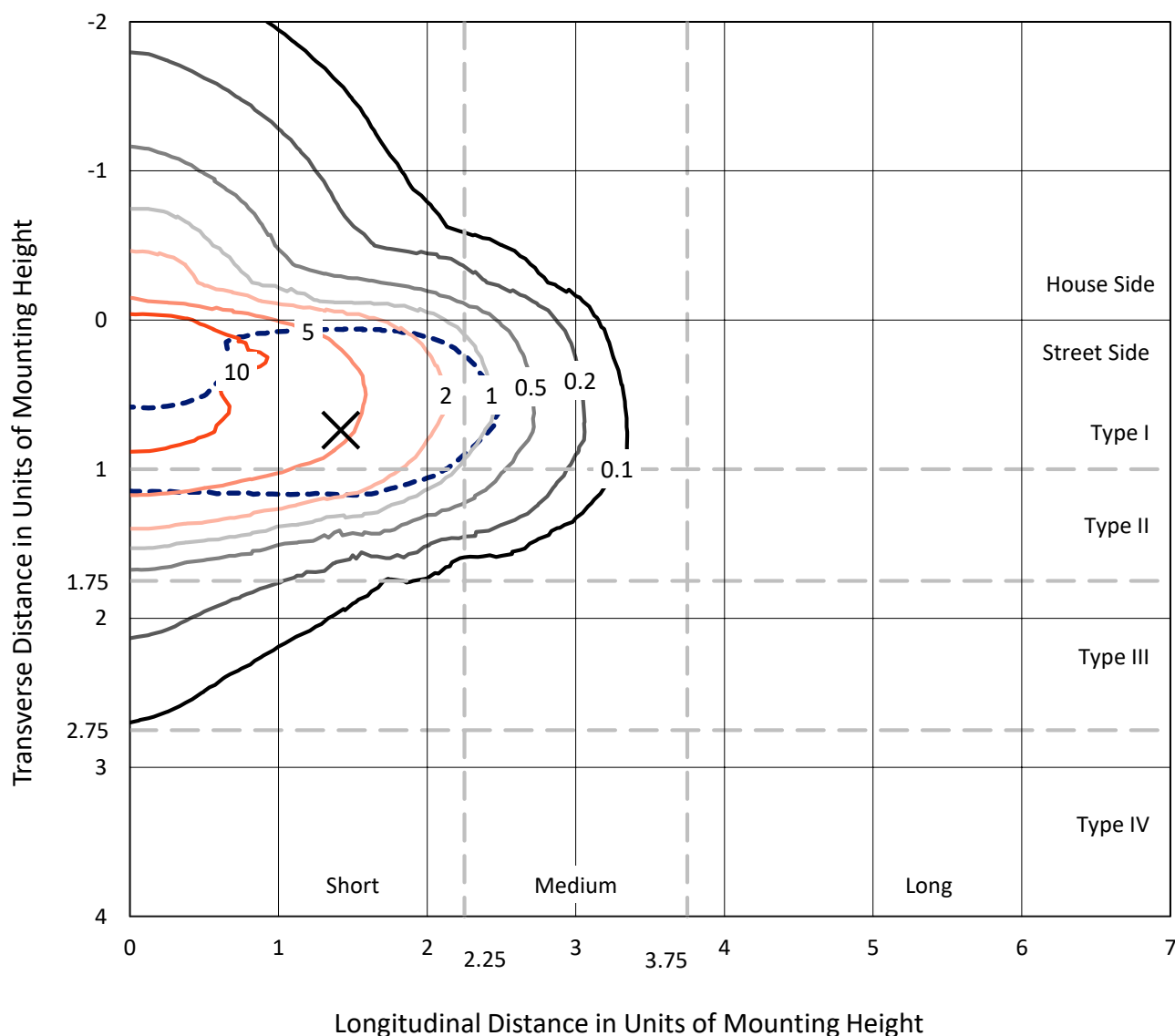
REPORT NUMBER: P269776

CATALOG NUMBER: GAP-AF-01-LED-U-AFL-7027-800

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

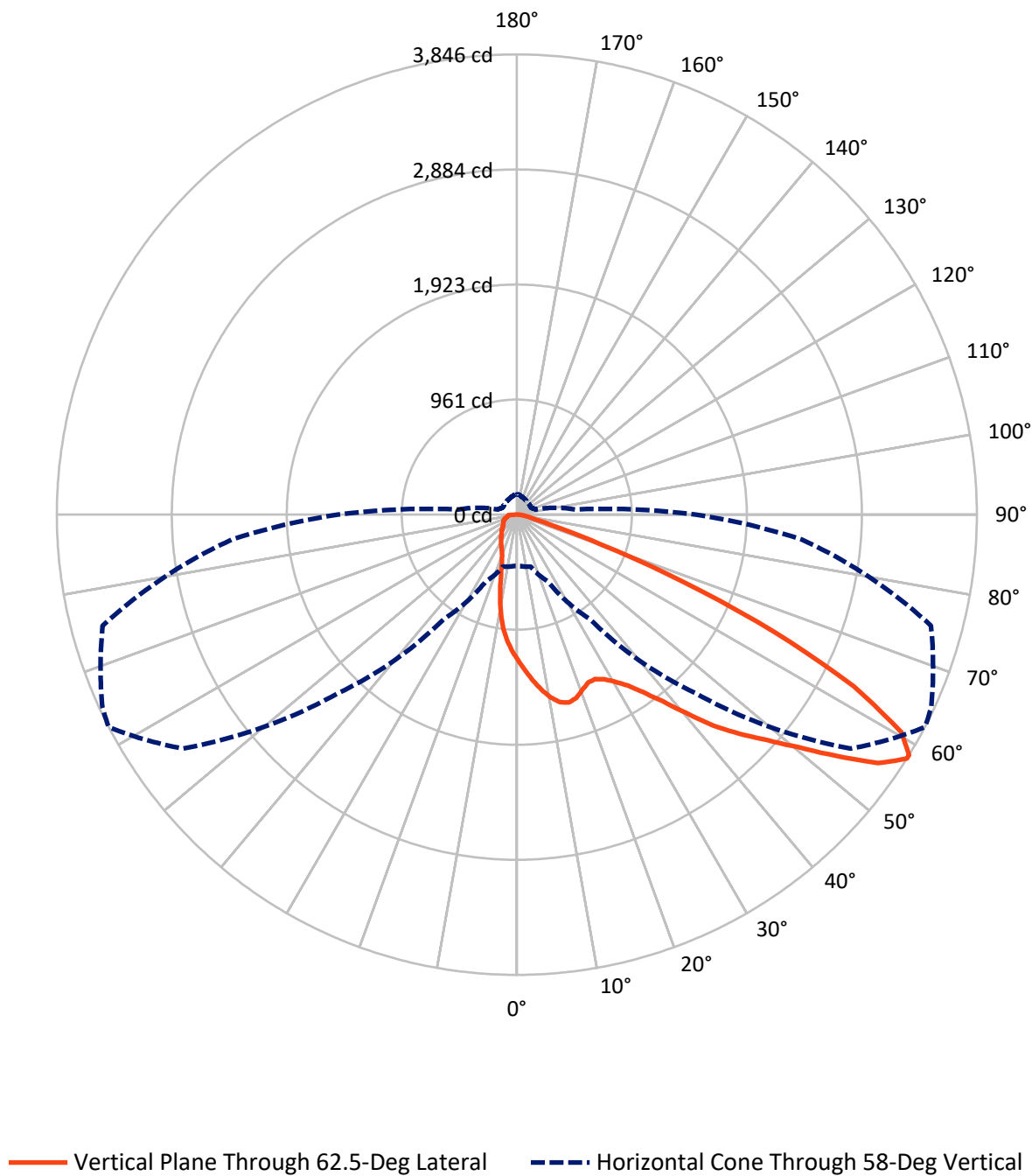


Based on 10 foot mounting height. Maximum calculated value = 14.8 fc
 Type II - Short - Full Cutoff

REPORT NUMBER: P269776

CATALOG NUMBER: GAP-AF-01-LED-U-AFL-7027-800

Luminous Intensity Polar Plot



REPORT NUMBER: P269776

CATALOG NUMBER: GAP-AF-01-LED-U-AFL-7027-800

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	698.1	0.0	698.1
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	3879.5	0.0	3879.5
	% Fixture	84.7	0.0	84.7
Total	Lumens	4577.6	0.0	4577.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.7	2.4
10°-20°	278.0	6.1
20°-30°	449.4	9.8
30°-40°	713.4	15.6
40°-50°	1043.8	22.8
50°-60°	1091.7	23.8
60°-70°	645.0	14.1
70°-80°	181.7	4.0
80°-90°	66.0	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°	4577.6	100.0
0°-180°	4577.6	100.0

Coefficient of Utilization



REPORT NUMBER: P269776

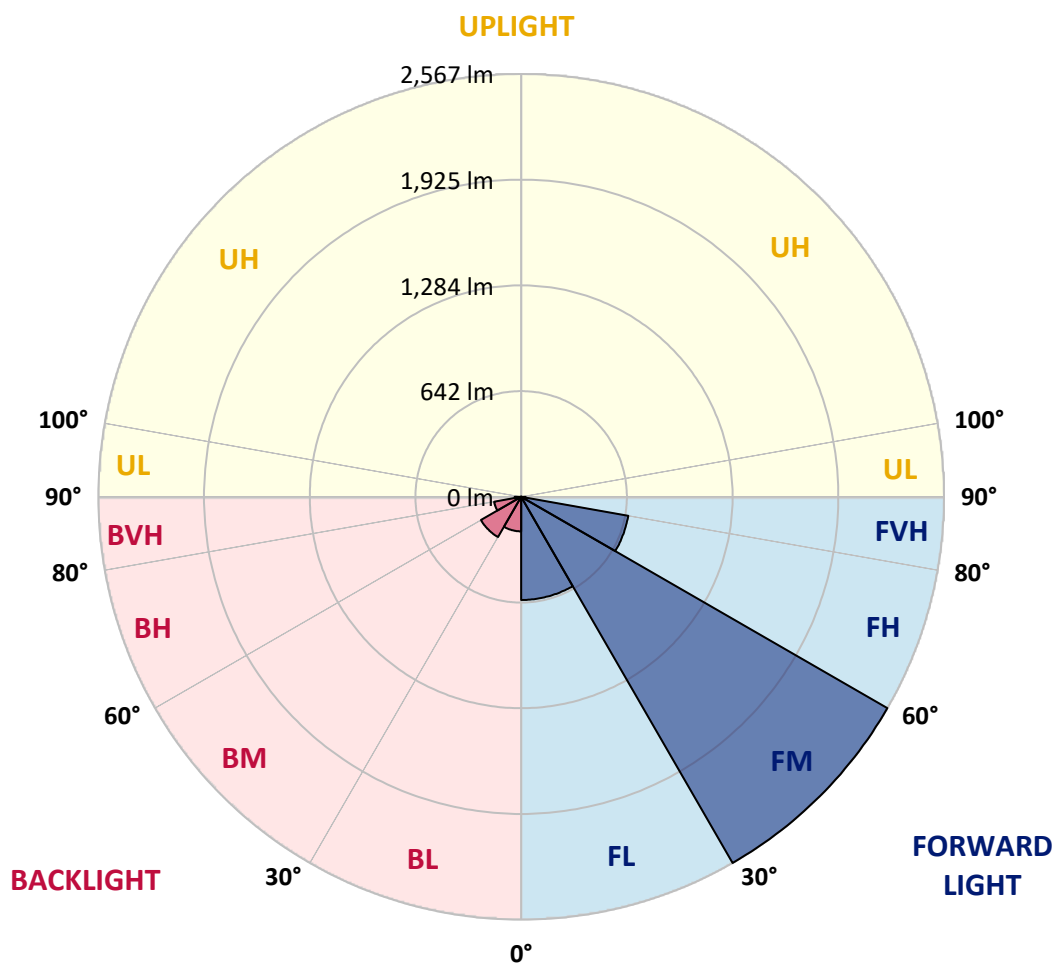
CATALOG NUMBER: GAP-AF-01-LED-U-AFL-7027-800

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	626.3	13.7			
FM	(30°-60°)	2567.1	56.1			
FH	(60°-80°)	660.1	14.4			G1/1800
FVH	(80°-90°)	26.0	0.6			G1/100
BL	(0°-30°)	209.8	4.6	B1/500		
BM	(30°-60°)	281.8	6.2	B1/1000		
BH	(60°-80°)	166.6	3.6	B1/500		G1/500
BVH	(80°-90°)	39.9	0.9			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





REPORT NUMBER: P269776

CATALOG NUMBER: GAP-AF-01-LED-U-AFL-7027-800

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	1215.9	1215.9	1215.9	1215.9	1215.9	1215.9	1215.9	1215.9	1215.9	1215.9	1215.9
2.5°	1389.5	1378.3	1371.2	1365.0	1356.7	1339.3	1315.7	1300.8	1293.3	1267.7	1237.2
5°	1525.7	1515.8	1508.4	1500.1	1485.3	1457.9	1420.1	1389.9	1375.0	1323.7	1262.9
7.5°	1493.8	1498.0	1510.6	1532.8	1551.8	1548.0	1514.4	1475.9	1456.3	1384.9	1292.8
10°	1301.6	1308.7	1330.6	1382.6	1466.7	1552.9	1579.2	1552.6	1532.8	1445.6	1323.4
12.5°	1262.9	1262.7	1264.5	1278.3	1328.2	1449.7	1581.3	1608.1	1596.2	1503.4	1354.6
15°	1278.6	1279.0	1277.7	1283.7	1299.2	1347.2	1515.4	1629.3	1637.8	1561.6	1387.0
17.5°	1320.1	1319.0	1314.0	1314.0	1319.6	1338.4	1437.7	1609.6	1648.4	1612.9	1415.3
20°	1389.5	1384.5	1371.4	1359.2	1353.2	1363.4	1405.8	1563.9	1630.1	1658.0	1438.8
22.5°	1473.5	1469.6	1448.3	1422.5	1401.5	1401.4	1422.2	1524.0	1598.4	1700.5	1458.7
25°	1582.2	1575.9	1544.2	1502.9	1466.3	1452.2	1457.9	1522.1	1581.0	1746.7	1476.4
27.5°	1709.8	1698.3	1660.8	1601.1	1547.3	1519.0	1510.6	1557.2	1596.8	1803.7	1500.9
30°	1864.5	1851.3	1803.3	1725.6	1649.5	1603.0	1585.1	1619.5	1649.0	1873.3	1540.4
32.5°	2040.7	2021.6	1966.1	1880.3	1780.4	1709.6	1680.5	1701.7	1725.4	1957.2	1589.7
35°	2284.0	2261.5	2181.1	2062.7	1949.7	1852.5	1806.0	1821.5	1844.3	2082.4	1661.1
37.5°	2449.9	2439.8	2386.4	2275.1	2152.2	2040.5	1968.5	1977.4	1990.5	2238.5	1752.5
40°	2448.5	2452.6	2453.7	2454.8	2371.2	2264.0	2186.7	2177.1	2174.5	2410.2	1856.3
42.5°	2325.8	2342.7	2396.9	2507.1	2558.1	2508.8	2437.9	2410.6	2396.9	2612.4	1966.5
45°	2138.1	2147.2	2248.8	2464.1	2653.8	2751.4	2697.7	2611.5	2586.8	2798.1	2057.8
47.5°	2041.3	2051.2	2115.2	2349.7	2652.7	2947.2	2978.3	2814.1	2770.2	2959.8	2136.8
50°	1811.0	1831.6	1912.2	2151.0	2555.9	3037.3	3271.6	3055.6	2964.5	3117.2	2215.8
52.5°	1387.7	1419.6	1510.1	1824.3	2310.4	2992.9	3506.4	3348.3	3219.7	3280.2	2283.9
55°	875.4	899.1	975.0	1288.3	1848.3	2760.6	3595.5	3664.8	3550.6	3434.5	2342.7
57.5°	475.9	486.5	515.0	711.4	1202.1	2247.4	3465.8	3845.0	3797.7	3565.6	2387.1
58°	425.9	433.1	450.7	616.4	1066.2	2107.1	3408.2	3845.7	3822.0	3584.6	2390.5
60°	316.1	312.3	296.6	351.7	593.4	1455.7	3060.3	3691.9	3761.5	3608.2	2373.7
62.5°	277.7	268.9	236.7	233.0	288.6	670.6	2341.6	3162.5	3327.0	3474.1	2271.5
65°	260.8	251.3	209.9	196.5	208.2	283.7	1379.3	2371.7	2578.0	3067.6	2010.2
67.5°	248.3	236.1	193.0	174.6	175.4	187.6	552.8	1493.8	1726.0	2329.0	1563.6
70°	236.3	222.9	178.5	157.4	152.4	148.3	219.8	747.7	958.3	1471.2	996.9
72.5°	223.3	210.2	165.7	143.8	134.0	120.6	143.5	305.9	427.2	696.0	452.2
75°	204.5	192.6	153.0	131.7	117.9	99.8	108.4	159.7	191.6	277.1	217.8
77.5°	181.5	171.8	138.8	121.8	104.6	81.0	83.5	110.9	122.9	158.6	129.5
80°	130.4	133.8	123.4	109.6	93.2	65.8	64.0	80.8	87.2	102.0	84.4
82.5°	91.5	93.6	102.1	89.4	77.0	51.7	47.3	57.0	60.7	67.1	45.5
85°	63.2	61.1	70.1	62.3	55.7	34.5	32.2	38.5	41.0	41.6	23.4
87.5°	38.0	38.0	40.6	33.3	30.0	17.8	17.4	22.0	23.4	22.4	12.9
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: P269776

CATALOG NUMBER: GAP-AF-01-LED-U-AFL-7027-800

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1215.9	1215.9	1215.9	1215.9	1215.9	1215.9	1215.9	1215.9	1215.9	1215.9	1215.9
2.5°	1219.2	1203.9	1171.3	1145.2	1112.3	1078.0	1058.8	1038.4	1024.3	1014.1	1030.4
5°	1228.4	1197.3	1130.0	1066.2	995.6	922.4	866.8	815.0	779.0	756.6	777.8
7.5°	1243.2	1195.0	1087.8	978.9	852.3	730.3	621.3	552.8	513.0	493.3	505.7
10°	1260.0	1191.6	1038.5	860.4	679.5	525.8	444.2	416.6	407.7	404.0	405.7
12.5°	1273.9	1184.2	978.0	717.3	510.1	415.1	391.8	391.0	393.0	393.4	394.0
15°	1283.9	1173.5	888.1	568.2	408.0	378.2	377.0	380.9	384.6	386.0	386.9
17.5°	1290.5	1151.3	786.6	449.2	365.6	360.4	363.5	368.3	372.3	373.3	374.2
20°	1289.8	1118.7	665.6	374.7	342.6	342.6	347.7	351.5	351.7	350.5	351.1
22.5°	1283.1	1074.2	548.3	335.0	322.0	325.7	330.8	327.3	312.2	302.2	302.9
25°	1272.0	1020.8	448.0	309.7	303.1	309.6	307.9	280.5	258.9	249.2	249.2
27.5°	1262.1	958.0	370.8	287.7	284.1	292.0	265.4	240.3	231.4	226.7	225.2
30°	1254.9	890.0	319.3	266.6	266.2	260.4	230.2	223.3	221.8	218.2	216.9
32.5°	1256.6	821.3	286.3	248.1	249.5	222.9	213.3	215.0	213.5	209.8	208.0
35°	1270.9	756.0	264.7	231.4	226.7	201.3	203.5	206.3	205.8	200.4	198.7
37.5°	1296.3	694.1	250.4	217.3	197.8	190.5	194.0	198.3	197.3	193.6	192.2
40°	1323.1	635.9	238.8	206.3	180.9	183.3	186.3	188.6	189.7	190.8	189.9
42.5°	1349.2	575.2	224.5	195.1	173.7	176.3	177.7	180.0	185.8	189.9	189.7
45°	1364.6	518.1	209.9	179.1	168.2	169.6	168.8	173.6	180.6	187.3	187.6
47.5°	1382.0	473.5	198.3	164.5	162.8	163.9	161.2	165.9	172.5	180.6	181.5
50°	1402.9	447.0	189.1	152.8	155.3	155.3	154.8	159.1	168.2	177.7	179.3
52.5°	1426.6	441.8	181.3	144.4	148.1	148.0	148.5	155.0	164.8	174.2	175.7
55°	1455.4	455.9	172.8	138.2	140.9	141.8	144.0	151.4	159.7	170.3	170.9
57.5°	1489.1	484.4	166.1	133.2	134.4	137.4	140.8	147.4	156.5	168.2	168.8
58°	1494.7	490.4	165.1	132.8	133.2	136.5	140.3	146.9	155.9	168.5	169.2
60°	1494.9	510.4	162.8	130.9	128.3	133.7	138.0	144.4	154.8	170.0	171.5
62.5°	1441.9	510.1	161.1	128.1	123.1	129.7	134.7	142.3	153.7	173.7	176.7
65°	1269.7	463.6	152.8	123.7	118.9	126.3	132.0	140.8	156.8	189.7	191.6
67.5°	993.0	380.1	137.5	117.7	113.5	122.9	130.3	140.6	160.0	193.3	194.7
70°	656.7	284.4	120.7	110.9	107.9	118.8	131.1	148.0	156.2	185.6	182.1
72.5°	340.7	199.7	107.2	102.1	101.5	115.2	143.5	147.1	152.6	174.6	170.3
75°	178.9	138.6	95.3	92.6	93.8	114.3	169.4	143.1	148.0	167.1	175.3
77.5°	109.6	111.8	85.2	84.1	86.1	111.7	169.2	138.2	140.9	153.7	162.8
80°	73.3	90.8	77.3	77.7	79.1	102.1	152.0	130.4	132.6	145.3	154.6
82.5°	46.4	53.7	70.2	73.9	72.0	84.4	129.1	118.8	121.8	166.1	175.7
85°	23.4	33.6	61.1	71.1	64.9	59.1	104.7	104.2	105.6	119.8	125.3
87.5°	10.8	18.5	47.6	62.2	49.0	36.9	76.0	77.2	83.3	85.2	85.2
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)