

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: P193251

Luminaire Tested: **GAN-AF-03-LED-U-T4FT-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193251
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24295)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-03-LED-U-T4FT-7030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11649.2 lumens
Efficiency: N/A
Efficacy: 121.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 96
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

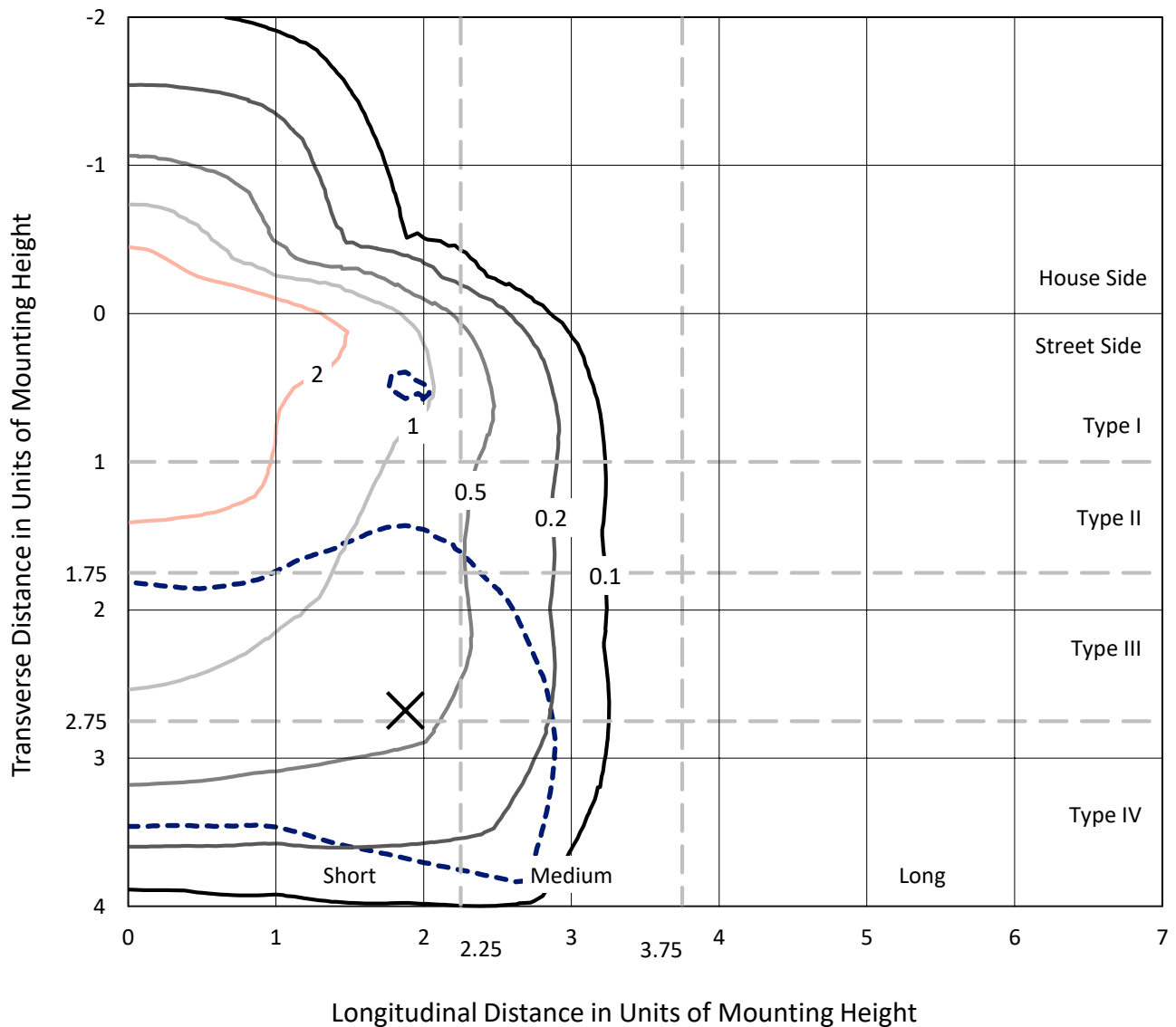


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

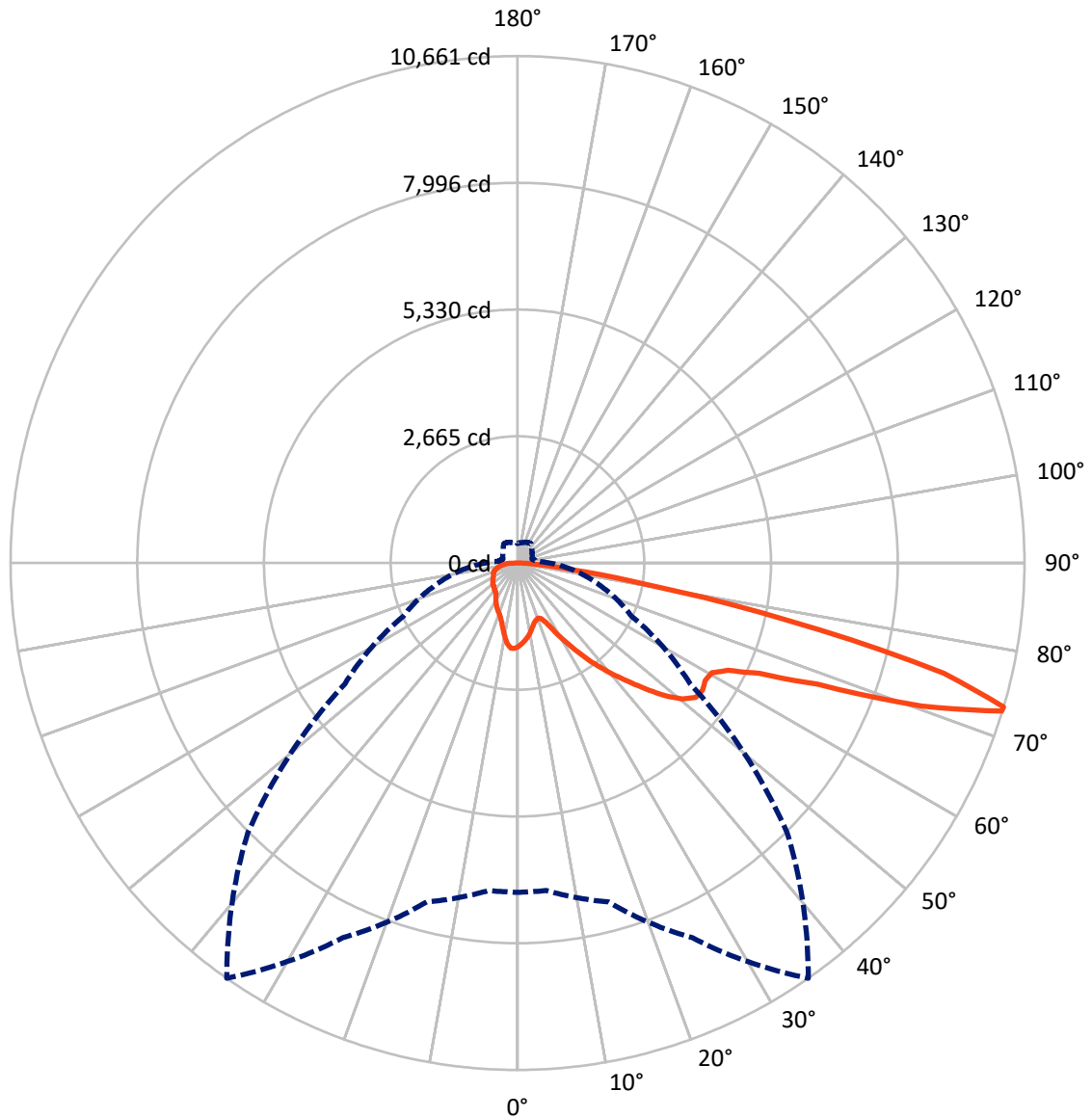


Based on 20 foot mounting height. Maximum calculated value = 4.4 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2221.8	0.0	2221.8
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	9427.4	0.0	9427.4
	% Fixture	80.9	0.0	80.9
Total	Lumens	11649.2	0.0	11649.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.2	1.4
10°-20°	397.3	3.4
20°-30°	642.2	5.5
30°-40°	1076.9	9.2
40°-50°	1660.1	14.3
50°-60°	2227.1	19.1
60°-70°	2967.0	25.5
70°-80°	2262.9	19.4
80°-90°	256.5	2.2
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°	11649.2	100.0
0°-180°	11649.2	100.0

Coefficient of Utilization



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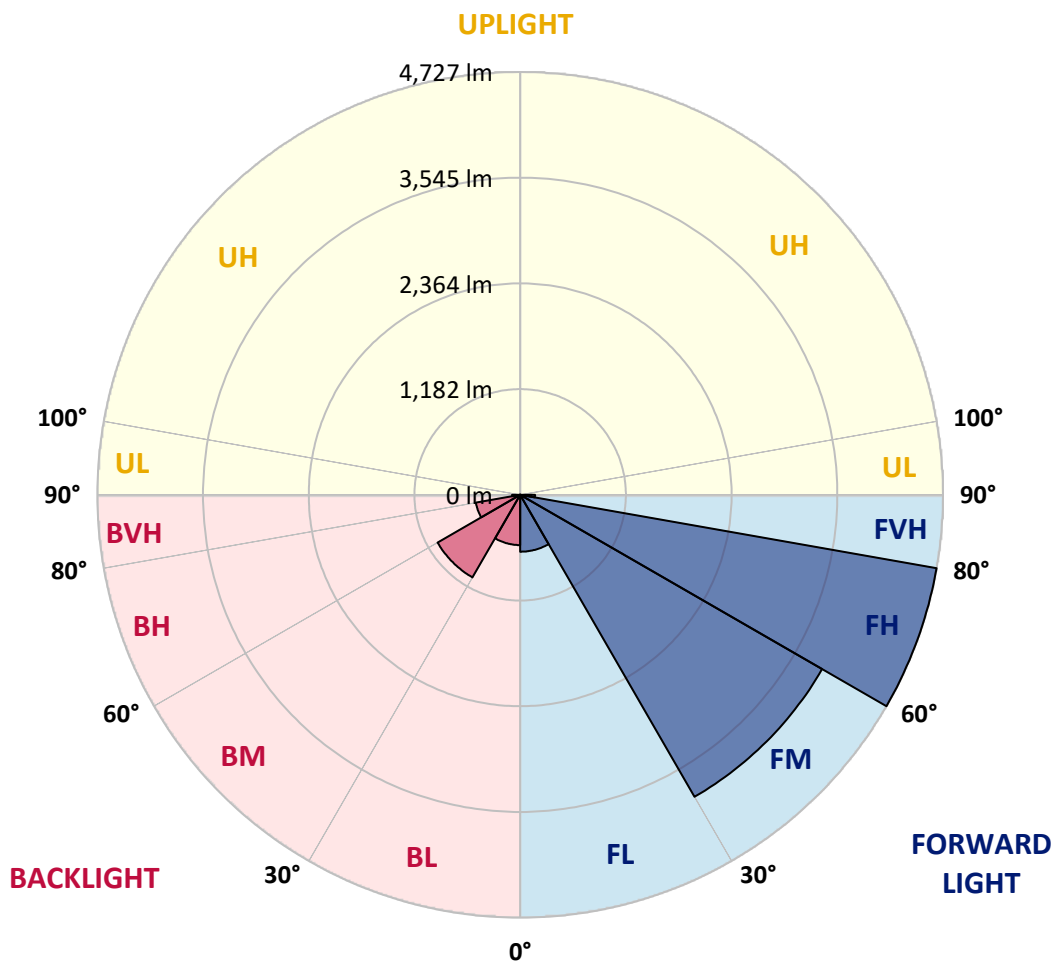
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	636.4	5.5			
FM	(30°-60°)	3897.9	33.5			
FH	(60°-80°)	4727.2	40.6			G2/5000
FVH	(80°-90°)	165.8	1.4			G2/225
BL	(0°-30°)	562.2	4.8	B2/1000		
BM	(30°-60°)	1066.2	9.2	B2/2500		
BH	(60°-80°)	502.7	4.3	B2/1000		G2/1000
BVH	(80°-90°)	90.7	0.8			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1758.2	1758.2	1758.2	1758.2	1758.2	1758.2	1758.2	1758.2	1758.2	1758.2	1758.2
2.5°	1688.8	1692.2	1688.3	1693.3	1701.7	1710.7	1716.8	1725.7	1735.8	1749.8	1753.2
5°	1609.4	1614.5	1614.5	1623.4	1639.7	1654.1	1667.7	1682.1	1703.5	1727.5	1737.0
7.5°	1522.2	1524.9	1529.9	1543.4	1566.9	1587.6	1606.6	1630.1	1659.2	1691.2	1707.8
10°	1417.0	1420.9	1428.8	1447.8	1479.6	1508.3	1535.5	1568.0	1604.9	1644.7	1665.8
12.5°	1342.6	1341.4	1344.9	1358.8	1386.8	1421.5	1461.3	1502.6	1547.8	1594.3	1620.1
15°	1317.4	1311.2	1298.4	1295.0	1310.1	1344.9	1390.7	1441.5	1495.9	1551.8	1583.7
17.5°	1333.1	1322.5	1287.2	1261.5	1259.2	1285.6	1334.2	1391.3	1453.9	1522.2	1561.9
20°	1431.6	1406.3	1319.7	1259.8	1239.1	1252.0	1294.5	1355.0	1428.8	1519.4	1570.3
22.5°	1667.1	1630.1	1446.0	1334.7	1264.7	1249.2	1281.1	1345.4	1431.6	1554.0	1618.9
25°	2010.0	1957.4	1663.2	1521.6	1377.3	1293.9	1301.2	1367.2	1471.2	1634.6	1712.9
27.5°	2280.7	2246.6	1946.8	1785.1	1582.0	1414.8	1366.7	1422.0	1552.3	1766.6	1846.6
30°	2441.8	2421.1	2249.9	2083.8	1843.3	1607.2	1491.9	1524.9	1679.4	1949.5	2015.5
32.5°	2628.7	2616.3	2532.4	2379.7	2125.2	1860.0	1690.6	1678.8	1849.4	2169.4	2199.6
35°	2822.2	2818.4	2769.0	2659.5	2427.8	2193.5	1954.0	1874.6	2034.6	2397.5	2378.6
37.5°	3002.3	2995.7	2967.2	2903.3	2744.5	2551.4	2222.6	2075.4	2234.3	2615.7	2531.3
40°	3334.0	3281.5	3183.6	3135.5	3064.5	2853.0	2435.7	2262.9	2441.3	2824.0	2663.3
42.5°	3738.6	3653.0	3470.6	3404.6	3394.4	3090.7	2581.1	2444.6	2650.0	3030.3	2793.1
45°	4056.8	3976.3	3819.0	3735.8	3772.7	3306.0	2727.1	2638.7	2864.8	3246.8	2926.8
47.5°	4396.4	4270.0	4061.9	4087.1	4167.5	3509.7	2875.9	2847.4	3100.2	3489.0	3093.0
50°	4408.7	4311.9	4220.8	4371.3	4496.6	3697.2	3062.2	3066.2	3388.3	3793.9	3314.0
52.5°	4153.1	4132.4	4277.3	4513.9	4694.6	3845.4	3274.3	3292.1	3757.0	4144.1	3556.7
55°	4063.6	4040.1	4207.3	4464.2	4721.4	3967.9	3504.2	3536.6	4202.8	4513.3	3793.4
57.5°	4281.8	4229.8	4240.9	4440.7	4656.0	4102.1	3754.8	3820.2	4687.3	4836.2	3945.6
60°	4891.5	4780.2	4568.6	4563.6	4691.3	4303.5	4044.6	4124.5	5190.8	4990.5	3886.3
62.5°	5746.8	5635.5	5239.4	4981.5	4962.5	4635.9	4400.3	4421.6	5481.6	4781.3	3524.2
65°	6672.7	6573.0	6130.5	5766.3	5590.8	5186.3	4813.8	4554.2	5386.6	4205.6	2891.0
67.5°	7796.5	7689.6	7309.2	6973.0	6804.1	6074.6	5104.0	4427.1	4783.0	3258.0	2078.2
70°	8582.6	8473.4	8323.5	8595.9	9009.3	7356.2	5141.5	3910.8	3572.4	2165.5	1250.8
72.5°	7557.1	7506.2	7779.7	8927.1	10649.0	8133.8	4647.6	2847.4	2074.9	1149.6	723.9
73°	6923.9	6912.7	7379.2	8695.0	10660.8	8014.1	4431.1	2646.6	1779.5	1016.9	661.8
75°	3126.6	3216.6	4239.3	6641.4	9262.1	6603.8	3118.7	1518.2	1005.3	702.6	499.6
77.5°	751.2	782.7	1326.4	3154.0	5849.2	3935.4	1413.0	750.7	642.8	496.1	364.7
80°	320.0	330.6	510.8	1165.2	2754.0	1584.8	651.1	502.9	444.6	346.3	255.6
82.5°	177.9	189.1	289.7	528.6	1111.6	540.4	397.1	350.1	292.6	208.6	166.2
85°	100.7	106.8	169.5	295.3	471.0	217.1	237.7	232.7	165.0	107.4	81.7
87.5°	47.5	51.5	81.7	137.0	184.6	85.0	120.8	133.2	103.5	65.4	42.5
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1758.2	1758.2	1758.2	1758.2	1758.2	1758.2	1758.2	1758.2	1758.2	1758.2
2.5°	1757.1	1767.2	1779.0	1785.1	1790.6	1797.5	1804.1	1804.1	1805.2	1805.7
5°	1744.8	1765.5	1783.9	1791.8	1793.5	1793.5	1791.8	1782.9	1775.0	1778.4
7.5°	1719.0	1749.2	1765.0	1762.2	1740.9	1716.3	1695.6	1670.3	1657.6	1655.3
10°	1682.1	1716.8	1719.6	1691.7	1639.1	1586.5	1542.8	1500.3	1480.3	1475.2
12.5°	1641.3	1673.2	1655.3	1597.7	1513.2	1436.5	1381.1	1338.1	1319.1	1314.1
15°	1608.3	1630.1	1584.8	1494.2	1387.9	1306.7	1261.0	1229.0	1215.6	1211.6
17.5°	1591.0	1595.4	1512.7	1390.1	1277.1	1209.5	1180.9	1165.8	1160.8	1157.9
20°	1599.3	1568.0	1443.9	1293.4	1186.5	1138.9	1132.3	1128.3	1127.2	1125.6
22.5°	1641.3	1559.6	1380.6	1201.7	1107.2	1086.4	1091.9	1091.4	1090.3	1089.2
25°	1716.3	1566.9	1319.1	1114.3	1040.4	1036.0	1046.0	1046.0	1041.7	1041.7
27.5°	1815.4	1582.0	1250.3	1031.5	980.0	980.6	988.5	986.3	981.2	977.9
30°	1936.1	1591.5	1169.7	957.1	923.6	921.4	923.6	914.1	898.9	897.9
32.5°	2059.7	1579.8	1076.3	891.1	863.7	858.7	857.0	843.6	826.2	821.2
35°	2171.6	1536.7	981.2	838.6	806.7	795.5	803.3	798.8	783.2	779.2
37.5°	2253.4	1456.8	895.6	792.1	765.8	763.0	768.1	769.7	751.2	747.4
40°	2308.1	1348.1	822.2	753.1	758.0	747.4	730.6	718.8	713.3	711.6
42.5°	2352.4	1235.1	760.8	734.6	759.7	728.9	692.6	673.6	683.6	688.2
45°	2403.2	1125.0	709.3	711.6	751.2	707.7	666.3	647.8	651.7	652.9
47.5°	2473.2	990.8	653.9	674.6	723.3	693.1	650.0	623.8	605.3	596.9
50°	2569.9	831.8	596.3	633.2	695.9	682.5	624.9	596.9	562.8	554.9
52.5°	2637.1	683.6	548.8	598.5	671.3	661.2	604.8	568.3	532.5	525.9
55°	2600.7	567.8	507.4	560.0	638.8	634.9	588.0	539.3	511.4	505.8
57.5°	2418.9	494.5	475.5	523.6	599.2	612.5	565.5	514.6	494.5	490.6
60°	2072.1	448.6	455.4	499.0	566.7	590.2	543.2	501.3	487.9	485.0
62.5°	1607.7	417.9	440.2	481.1	541.5	574.4	530.9	499.6	494.5	491.1
65°	1151.8	393.3	424.0	463.2	518.6	560.0	526.4	497.3	498.4	495.6
67.5°	782.7	371.5	404.5	443.0	496.1	547.1	520.3	489.5	503.4	500.1
70°	547.7	350.1	381.6	417.4	468.1	529.3	509.0	477.8	476.6	463.2
72.5°	427.4	322.2	350.1	381.6	432.4	504.0	486.6	451.5	433.0	419.0
73°	407.9	315.5	342.3	373.6	424.6	497.9	480.5	444.1	423.5	410.6
75°	337.3	286.4	311.1	339.0	391.0	468.8	450.3	411.2	384.9	377.1
77.5°	265.2	245.1	268.6	293.7	344.6	426.2	405.6	368.1	353.6	346.8
80°	196.3	203.1	223.8	246.2	298.8	381.0	362.5	325.0	389.9	373.6
82.5°	138.2	153.8	172.8	193.0	250.6	336.7	314.3	275.8	285.2	237.2
85°	81.7	100.7	118.5	135.9	180.8	279.1	259.6	219.8	180.2	171.7
87.5°	47.5	55.9	60.9	78.8	124.2	210.4	182.9	162.8	93.4	63.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)