

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: P200208

Luminaire Tested: **GAP-AF-02-LED-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200208
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: GAP-AF-02-LED-U-T4FT
Description: GALLEON PEDESTRIAN LUMINAIRE
(2) 70 CRI, 4000K, 1050mA 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: 12783.8 lumens
Efficiency: N/A
Efficacy: 113.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U0 - G3

Input Watts (W): 113
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

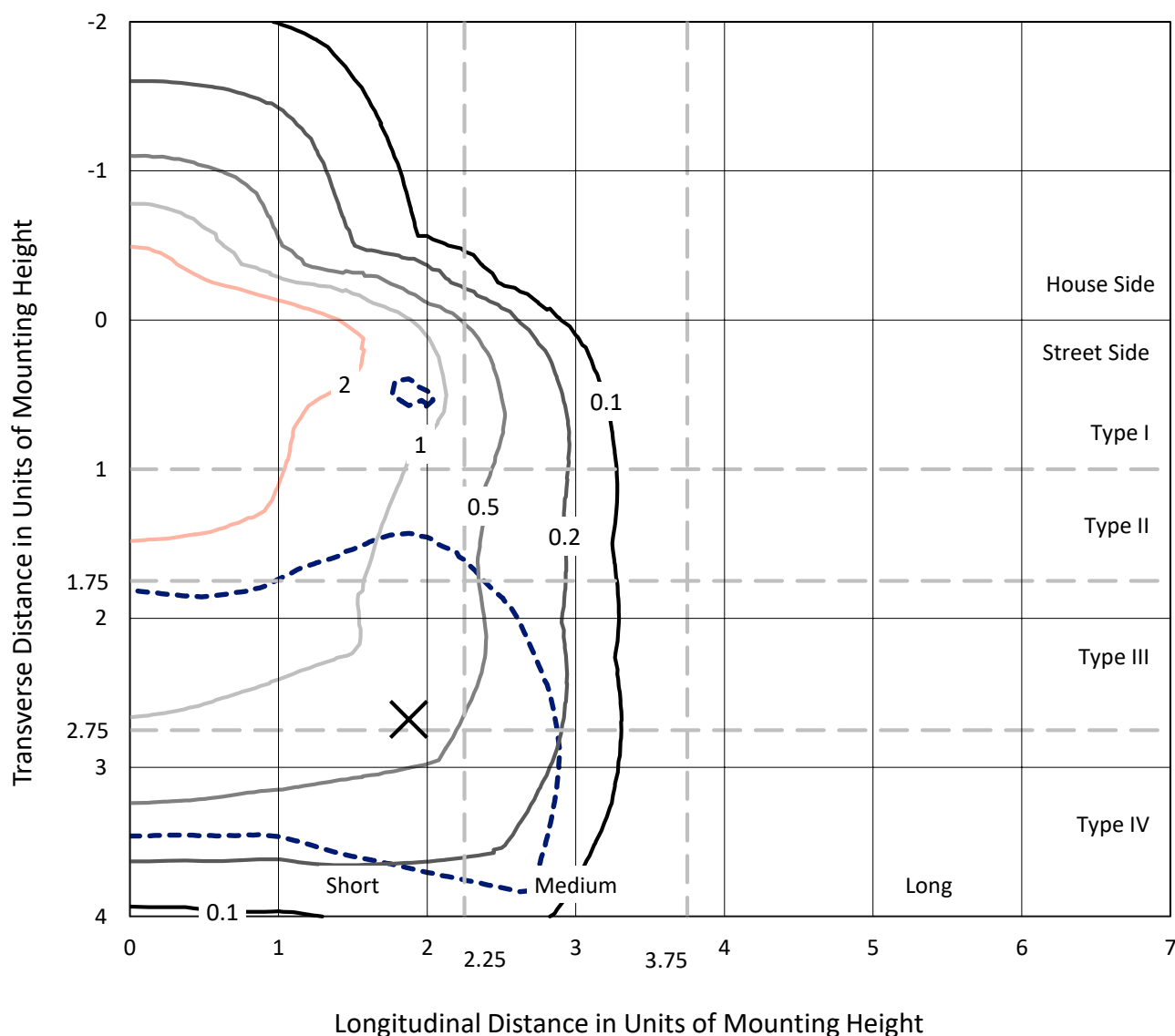


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

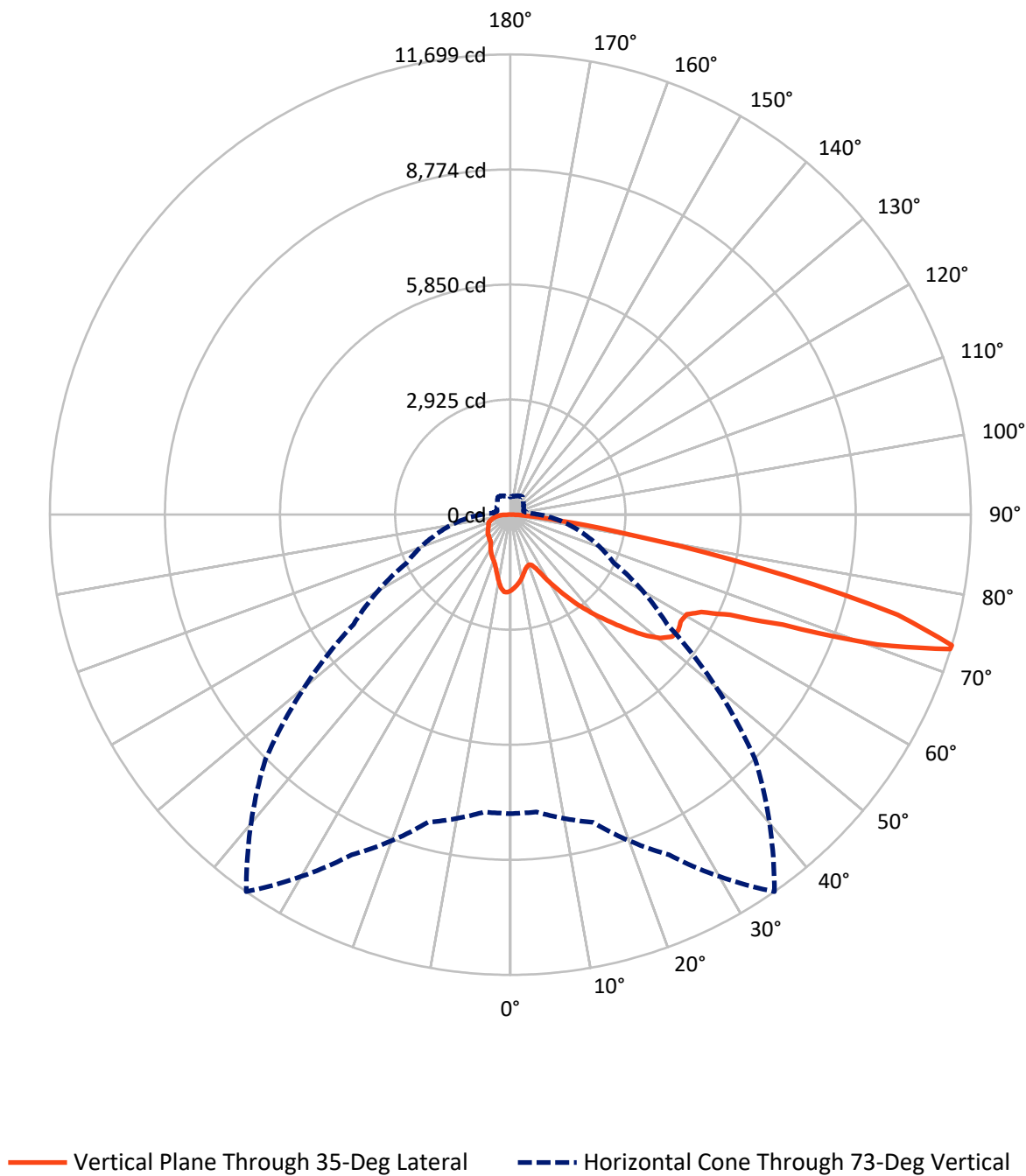


Based on 20 foot mounting height. Maximum calculated value = 4.8 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2438.2	0.0	2438.2
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	10345.6	0.0	10345.6
	% Fixture	80.9	0.0	80.9
Total	Lumens	12783.8	0.0	12783.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.7	1.4
10°-20°	436.0	3.4
20°-30°	704.8	5.5
30°-40°	1181.8	9.2
40°-50°	1821.7	14.3
50°-60°	2444.0	19.1
60°-70°	3256.0	25.5
70°-80°	2483.3	19.4
80°-90°	281.5	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°	12783.8	100.0
0°-180°	12783.8	100.0

Coefficient of Utilization



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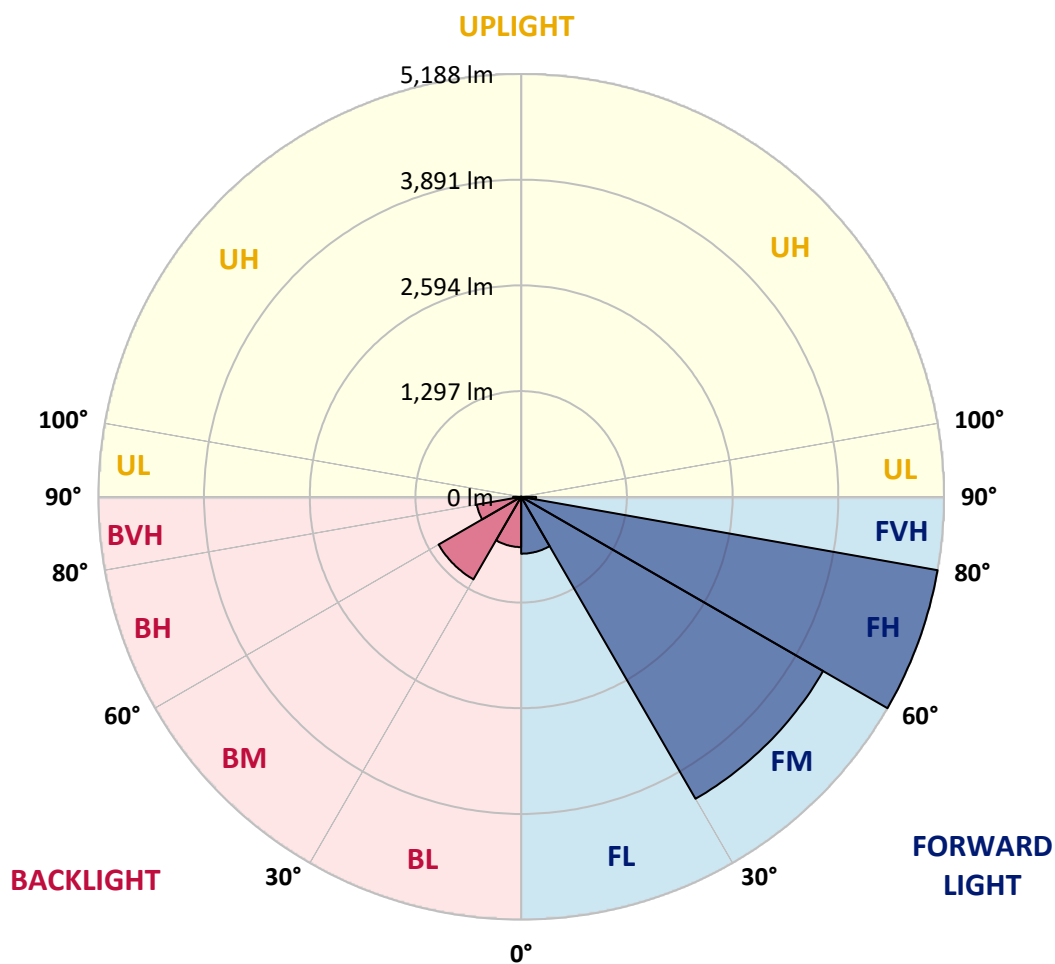
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	698.4	5.5			
FM	(30°-60°)	4277.5	33.5			
FH	(60°-80°)	5187.7	40.6			G3/7500
FVH	(80°-90°)	181.9	1.4			G2/225
BL	(0°-30°)	617.0	4.8	B2/1000		
BM	(30°-60°)	1170.1	9.2	B2/2500		
BH	(60°-80°)	551.6	4.3	B2/1000		G2/1000
BVH	(80°-90°)	99.5	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-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1929.5	1929.5	1929.5	1929.5	1929.5	1929.5	1929.5	1929.5	1929.5	1929.5	1929.5
2.5°	1853.4	1857.1	1852.8	1858.3	1867.5	1877.3	1884.1	1893.9	1904.9	1920.3	1924.0
5°	1766.2	1771.8	1771.8	1781.6	1799.4	1815.3	1830.1	1846.0	1869.3	1895.7	1906.2
7.5°	1670.4	1673.4	1679.0	1693.7	1719.5	1742.2	1763.2	1788.9	1820.9	1855.8	1874.3
10°	1555.0	1559.3	1567.9	1588.7	1623.7	1655.0	1685.1	1720.7	1761.3	1804.9	1828.2
12.5°	1473.4	1472.1	1475.8	1491.2	1521.8	1559.9	1603.5	1648.9	1698.6	1749.6	1777.9
15°	1445.7	1439.0	1424.9	1421.2	1437.8	1475.8	1526.1	1582.0	1641.5	1702.9	1737.9
17.5°	1462.9	1451.3	1412.6	1384.4	1381.9	1410.8	1464.1	1526.8	1595.5	1670.4	1714.0
20°	1570.9	1543.3	1448.2	1382.5	1359.8	1373.9	1420.6	1486.9	1567.9	1667.3	1723.2
22.5°	1829.4	1788.9	1586.9	1464.8	1388.0	1370.9	1405.8	1476.4	1570.9	1705.4	1776.7
25°	2205.7	2148.0	1825.1	1669.8	1511.4	1420.0	1427.9	1500.4	1614.5	1793.8	1879.8
27.5°	2502.9	2465.4	2136.3	1959.0	1736.0	1552.5	1499.7	1560.5	1703.5	1938.7	2026.5
30°	2679.6	2656.9	2469.1	2286.8	2022.8	1763.8	1637.2	1673.4	1842.9	2139.4	2211.8
32.5°	2884.7	2871.2	2779.2	2611.5	2332.2	2041.2	1855.2	1842.3	2029.5	2380.7	2413.9
35°	3097.1	3092.8	3038.8	2918.5	2664.3	2407.1	2144.3	2057.2	2232.7	2631.1	2610.3
37.5°	3294.8	3287.5	3256.2	3186.1	3011.8	2800.0	2439.0	2277.6	2451.9	2870.6	2777.9
40°	3658.8	3601.1	3493.7	3440.9	3363.0	3130.8	2672.9	2483.2	2679.0	3098.9	2922.8
42.5°	4102.6	4008.7	3808.7	3736.1	3725.1	3391.8	2832.6	2682.7	2908.0	3325.5	3065.2
45°	4452.0	4363.6	4191.0	4099.6	4140.1	3628.1	2992.7	2895.8	3143.7	3563.0	3211.9
47.5°	4824.6	4685.8	4457.5	4485.1	4573.5	3851.6	3156.0	3124.7	3402.2	3828.9	3394.3
50°	4838.1	4731.9	4631.8	4797.0	4934.5	4057.2	3360.5	3364.8	3718.3	4163.4	3636.7
52.5°	4557.6	4534.8	4693.8	4953.5	5151.8	4219.9	3593.1	3612.8	4122.9	4547.7	3903.2
55°	4459.3	4433.6	4617.1	4898.9	5181.2	4354.4	3845.5	3881.1	4612.2	4952.9	4162.8
57.5°	4698.7	4641.6	4653.9	4873.1	5109.4	4501.7	4120.4	4192.3	5143.8	5307.2	4329.8
60°	5367.9	5245.7	5013.7	5008.2	5148.1	4722.7	4438.5	4526.3	5696.3	5476.6	4264.8
62.5°	6306.6	6184.4	5749.7	5466.8	5445.9	5087.3	4828.9	4852.3	6015.6	5246.9	3867.6
65°	7322.6	7213.2	6727.6	6328.1	6135.2	5691.4	5282.6	4997.7	5911.2	4615.2	3172.6
67.5°	8555.9	8438.6	8021.2	7652.2	7466.8	6666.3	5601.2	4858.4	5248.8	3575.3	2280.7
70°	9418.4	9298.7	9134.1	9433.1	9886.8	8072.7	5642.3	4291.8	3920.4	2376.4	1372.7
72.5°	8293.2	8237.2	8537.4	9796.6	11686.1	8926.1	5100.2	3124.7	2277.0	1261.6	794.4
73°	7598.2	7585.9	8097.9	9541.8	11699.0	8794.7	4862.7	2904.4	1952.8	1116.0	726.2
75°	3431.1	3529.9	4652.1	7288.2	10164.2	7247.0	3422.5	1666.1	1103.2	771.1	548.2
77.5°	824.5	858.9	1455.6	3461.2	6418.9	4318.8	1550.7	823.9	705.3	544.5	400.3
80°	351.2	362.8	560.5	1278.8	3022.2	1739.1	714.5	551.9	488.0	380.0	280.6
82.5°	195.2	207.5	318.0	580.1	1219.8	593.0	435.9	384.3	321.1	228.9	182.3
85°	110.5	117.2	186.0	324.2	516.9	238.1	261.0	255.4	181.1	117.8	89.6
87.5°	52.2	56.5	89.6	150.4	202.5	93.3	132.6	146.1	113.5	71.8	46.6
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°	1929.5	1929.5	1929.5	1929.5	1929.5	1929.5	1929.5	1929.5	1929.5	1929.5
2.5°	1928.3	1939.3	1952.2	1959.0	1965.1	1972.5	1979.8	1979.8	1981.0	1981.7
5°	1914.8	1937.5	1957.7	1966.3	1968.2	1968.2	1966.3	1956.5	1947.9	1951.6
7.5°	1886.5	1919.7	1936.9	1933.8	1910.5	1883.5	1860.7	1833.1	1819.0	1816.6
10°	1846.0	1884.1	1887.1	1856.5	1798.8	1741.0	1693.1	1646.4	1624.3	1618.8
12.5°	1801.2	1836.2	1816.6	1753.3	1660.6	1576.5	1515.7	1468.4	1447.6	1442.1
15°	1765.0	1788.9	1739.1	1639.7	1523.1	1434.1	1383.7	1348.8	1334.0	1329.7
17.5°	1745.9	1750.8	1659.9	1525.5	1401.5	1327.3	1296.0	1279.4	1273.9	1270.8
20°	1755.2	1720.7	1584.4	1419.3	1302.1	1249.8	1242.5	1238.2	1237.0	1235.1
22.5°	1801.2	1711.5	1515.1	1318.7	1214.9	1192.1	1198.3	1197.7	1196.4	1195.2
25°	1883.5	1719.5	1447.6	1222.8	1141.8	1136.9	1148.0	1148.0	1143.0	1143.0
27.5°	1992.1	1736.0	1372.1	1132.0	1075.5	1076.1	1084.7	1082.3	1076.8	1073.1
30°	2124.7	1746.5	1283.7	1050.4	1013.5	1011.1	1013.5	1003.1	986.5	985.3
32.5°	2260.4	1733.6	1181.1	977.9	947.9	942.3	940.5	925.8	906.7	901.2
35°	2383.2	1686.3	1076.8	920.2	885.3	873.0	881.6	876.7	859.5	855.2
37.5°	2472.8	1598.6	982.9	869.3	840.5	837.4	842.9	844.8	824.5	820.2
40°	2532.9	1479.5	902.4	826.3	831.9	820.2	801.8	788.9	782.8	780.9
42.5°	2581.4	1355.5	834.9	806.1	833.7	799.9	760.1	739.1	750.1	755.1
45°	2637.3	1234.5	778.5	780.9	824.5	776.6	731.1	710.8	715.1	716.4
47.5°	2714.0	1087.2	717.6	740.3	793.8	760.7	713.3	684.5	664.2	655.0
50°	2820.3	912.9	654.4	694.9	763.7	748.9	685.7	655.0	617.6	609.0
52.5°	2893.9	750.1	602.2	656.8	736.6	725.6	663.6	623.7	584.4	577.0
55°	2854.0	623.1	556.8	614.5	701.0	696.7	645.2	591.8	561.1	555.0
57.5°	2654.5	542.7	521.8	574.6	657.5	672.2	620.6	564.8	542.7	538.4
60°	2273.9	492.3	499.7	547.6	621.9	647.6	596.1	550.0	535.3	532.2
62.5°	1764.4	458.6	483.1	527.9	594.2	630.4	582.6	548.2	542.7	539.0
65°	1264.1	431.6	465.3	508.3	569.1	614.5	577.7	545.7	547.0	543.9
67.5°	858.9	407.6	443.9	486.2	544.5	600.4	570.9	537.2	552.5	548.8
70°	601.0	384.3	418.7	458.0	513.8	580.7	558.6	524.3	523.0	508.3
72.5°	469.0	353.6	384.3	418.7	474.5	553.1	534.1	495.4	475.2	459.8
73°	447.5	346.3	375.7	410.1	466.0	546.4	527.3	487.4	464.7	450.6
75°	370.2	314.4	341.4	372.0	429.1	514.4	494.2	451.2	422.4	413.8
77.5°	291.0	268.9	294.7	322.3	378.2	467.8	445.1	404.0	388.0	380.6
80°	215.4	222.8	245.5	270.2	327.9	418.1	397.8	356.7	427.9	410.1
82.5°	151.6	168.8	189.7	211.8	275.1	369.6	345.0	302.7	313.1	260.3
85°	89.6	110.5	130.1	149.1	198.2	306.4	284.9	241.2	197.6	188.4
87.5°	52.2	61.4	66.9	86.5	136.3	230.8	200.7	178.6	102.5	69.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)