

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: P268316

Luminaire Tested: **GAN-AF-02-LED-U-T4FT-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268316
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-02-LED-U-T4FT-7027-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 1200mA 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: 11676.7 lumens
Efficiency: N/A
Efficacy: 90.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 129
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

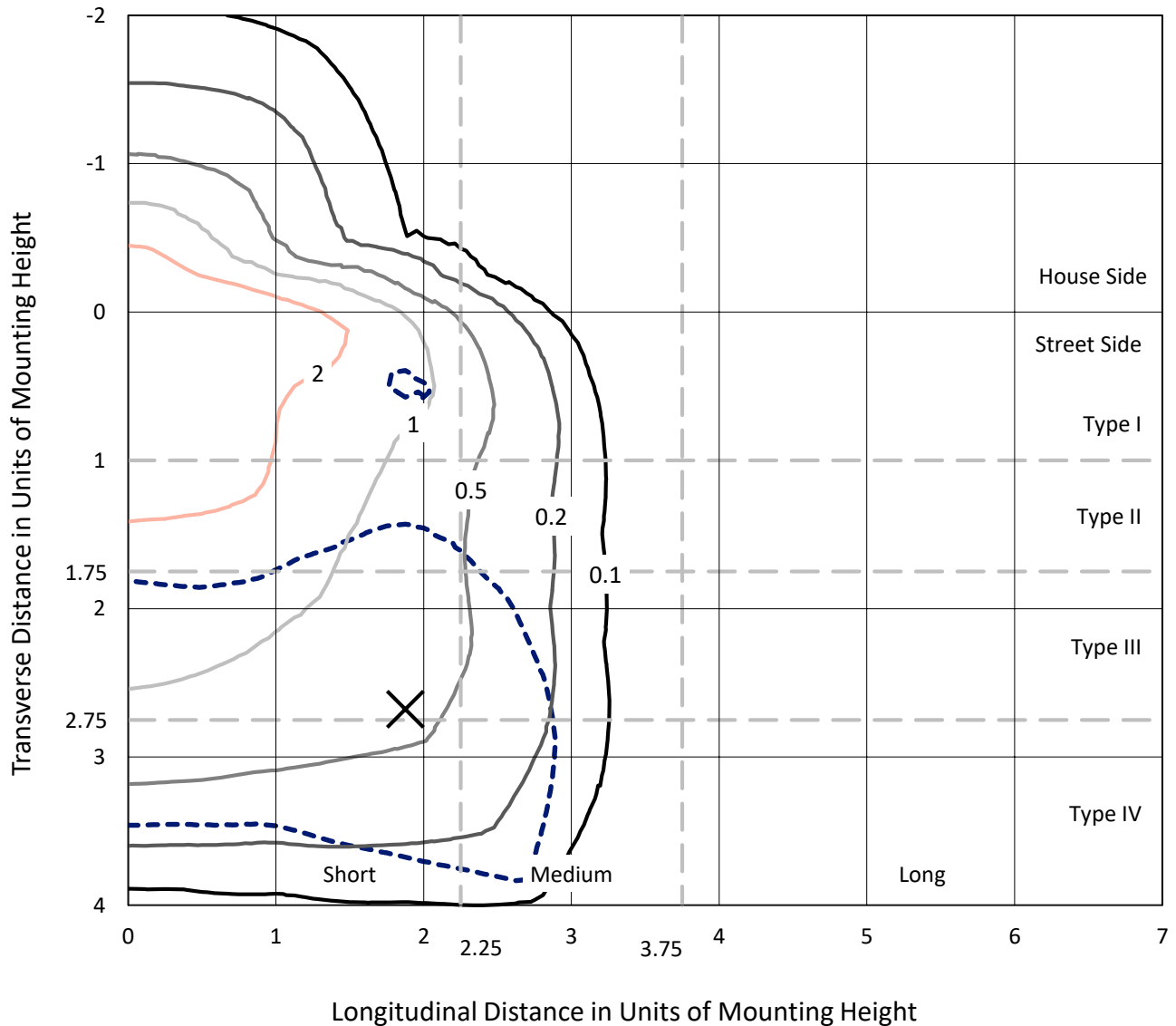


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

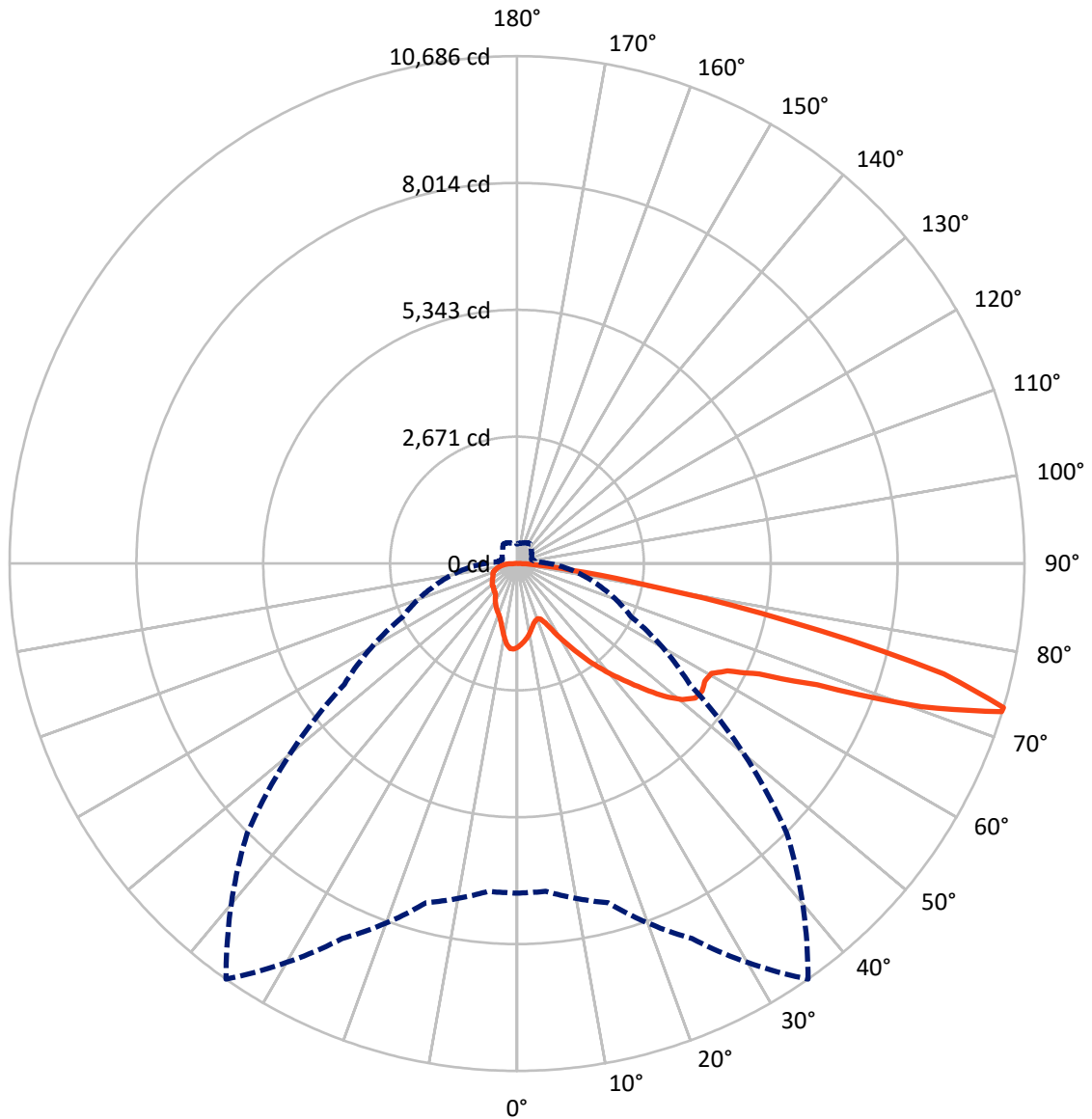


Based on 20 foot mounting height. Maximum calculated value = 4.4 fc
 Type IV - Short - Non-Cutoff

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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	2227.1	0.0	2227.1
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	9449.6	0.0	9449.6
	% Fixture	80.9	0.0	80.9
Total	Lumens	11676.7	0.0	11676.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.5	1.4
10°-20°	398.2	3.4
20°-30°	643.7	5.5
30°-40°	1079.5	9.2
40°-50°	1664.0	14.3
50°-60°	2232.4	19.1
60°-70°	2974.0	25.5
70°-80°	2268.2	19.4
80°-90°	257.1	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°	11676.7	100.0
0°-180°	11676.7	100.0

Coefficient of Utilization



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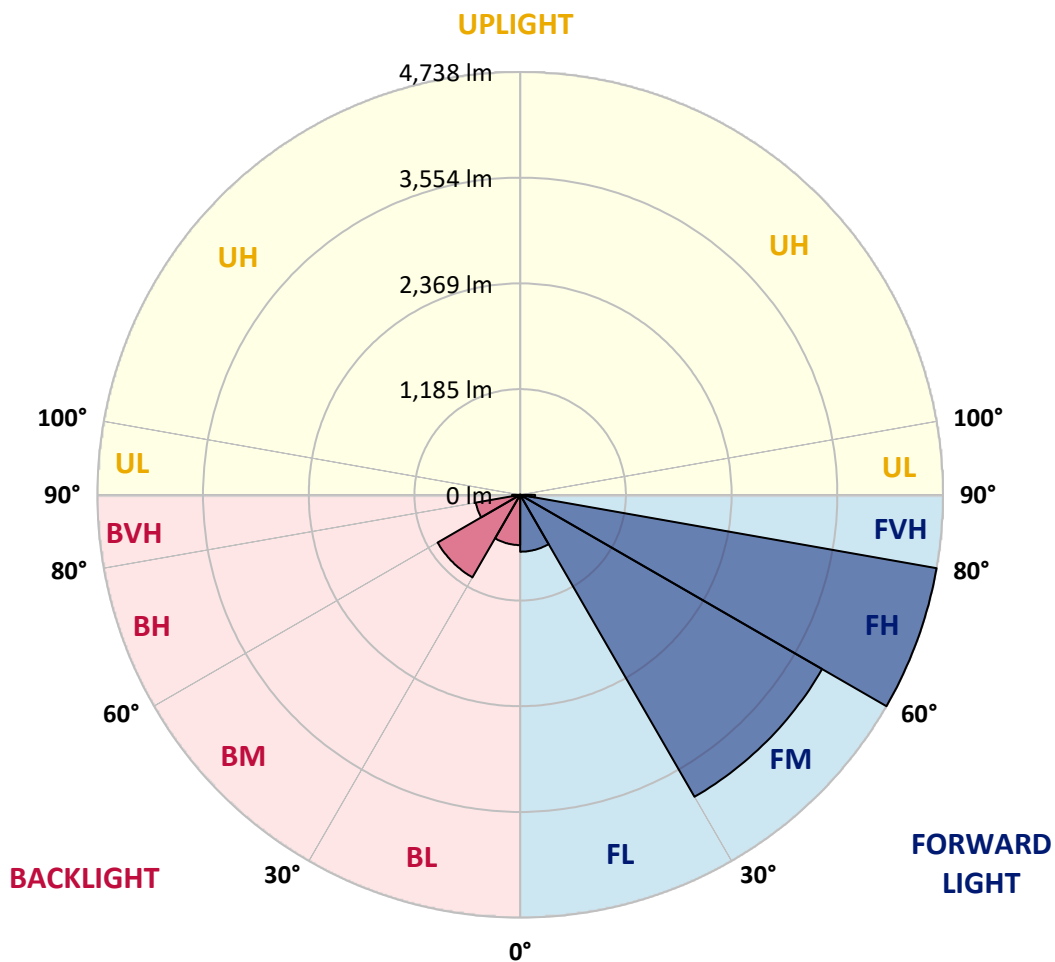
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	637.9	5.5			
FM (30°-60°)	3907.1	33.5			
FH (60°-80°)	4738.4	40.6			G2/5000
FVH (80°-90°)	166.2	1.4			G2/225
BL (0°-30°)	563.6	4.8	B2/1000		
BM (30°-60°)	1068.7	9.2	B2/2500		
BH (60°-80°)	503.9	4.3	B2/1000		G2/1000
BVH (80°-90°)	90.9	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°	1762.4	1762.4	1762.4	1762.4	1762.4	1762.4	1762.4	1762.4	1762.4	1762.4	1762.4
2.5°	1692.9	1696.2	1692.2	1697.3	1705.7	1714.8	1720.9	1729.9	1739.9	1754.0	1757.4
5°	1613.3	1618.2	1618.2	1627.2	1643.4	1658.1	1671.6	1686.1	1707.4	1731.6	1741.1
7.5°	1525.7	1528.6	1533.5	1547.1	1570.5	1591.3	1610.4	1633.9	1663.1	1695.1	1711.9
10°	1420.3	1424.3	1432.1	1451.1	1483.1	1511.8	1539.2	1571.8	1608.8	1648.6	1669.9
12.5°	1345.8	1344.7	1347.9	1362.0	1390.0	1424.8	1464.6	1506.1	1551.6	1598.1	1623.9
15°	1320.5	1314.4	1301.5	1298.1	1313.2	1347.9	1394.0	1445.1	1499.5	1555.4	1587.5
17.5°	1336.1	1325.5	1290.2	1264.5	1262.2	1288.6	1337.3	1394.4	1457.3	1525.7	1565.6
20°	1435.0	1409.7	1322.8	1262.7	1242.0	1254.9	1297.5	1358.1	1432.1	1522.9	1574.0
22.5°	1670.9	1633.9	1449.4	1337.8	1267.8	1252.1	1284.0	1348.5	1435.0	1557.8	1622.8
25°	2014.7	1962.0	1667.1	1525.2	1380.5	1297.0	1304.2	1370.5	1474.7	1638.5	1717.0
27.5°	2286.0	2252.0	1951.4	1789.2	1585.8	1418.1	1369.8	1425.4	1556.0	1770.7	1851.0
30°	2447.6	2426.9	2255.3	2088.6	1847.6	1611.0	1495.5	1528.6	1683.3	1954.2	2020.3
32.5°	2634.9	2622.5	2538.4	2385.4	2130.2	1864.4	1694.6	1682.7	1853.8	2174.4	2204.8
35°	2828.9	2825.0	2775.7	2665.7	2433.6	2198.6	1958.7	1879.1	2039.4	2403.2	2384.2
37.5°	3009.4	3002.8	2974.1	2910.1	2750.9	2557.5	2227.7	2080.4	2239.6	2622.0	2537.4
40°	3342.0	3289.2	3191.0	3142.9	3071.7	2859.8	2441.5	2268.1	2447.1	2830.6	2669.7
42.5°	3747.4	3661.6	3478.7	3412.7	3402.5	3098.1	2587.2	2450.3	2656.2	3037.4	2799.7
45°	4066.4	3985.7	3828.0	3744.6	3781.5	3313.8	2733.5	2645.0	2871.5	3254.5	2933.8
47.5°	4406.7	4280.1	4071.5	4096.7	4177.5	3518.0	2882.8	2854.2	3107.5	3497.3	3100.3
50°	4419.1	4322.1	4230.7	4381.6	4507.2	3705.9	3069.5	3073.3	3396.3	3802.9	3321.8
52.5°	4162.8	4142.2	4287.3	4524.6	4705.6	3854.4	3282.0	3300.0	3765.9	4153.9	3565.2
55°	4073.2	4049.6	4217.3	4474.6	4732.6	3977.2	3512.5	3544.9	4212.8	4524.0	3802.3
57.5°	4291.8	4239.7	4250.9	4451.1	4667.0	4111.8	3763.5	3829.3	4698.3	4847.6	3954.8
60°	4902.9	4791.4	4579.5	4574.3	4702.3	4313.8	4054.1	4134.3	5203.1	5002.3	3895.4
62.5°	5760.4	5648.8	5251.9	4993.3	4974.3	4646.8	4410.7	4432.0	5494.7	4792.5	3532.7
65°	6688.4	6588.6	6145.0	5780.1	5603.9	5198.5	4825.1	4564.8	5399.3	4215.6	2897.8
67.5°	7814.9	7707.7	7326.4	6989.5	6820.1	6089.0	5116.0	4437.5	4794.3	3265.7	2083.1
70°	8602.7	8493.4	8343.1	8616.2	9030.5	7373.6	5153.7	3920.1	3580.9	2170.6	1253.8
72.5°	7574.9	7523.8	7798.0	8948.1	10674.1	8152.9	4658.5	2854.2	2079.8	1152.3	725.7
73°	6940.1	6928.9	7396.6	8715.4	10685.9	8033.1	4441.5	2652.9	1783.7	1019.3	663.4
75°	3133.9	3224.1	4249.3	6657.0	9284.1	6619.4	3126.1	1521.8	1007.5	704.4	500.7
77.5°	753.0	784.5	1329.5	3161.3	5863.0	3944.7	1416.4	752.5	644.3	497.4	365.6
80°	320.8	331.4	511.9	1167.9	2760.5	1588.6	652.7	504.0	445.7	347.0	256.2
82.5°	178.4	189.5	290.4	529.9	1114.2	541.7	398.0	351.0	293.2	209.1	166.5
85°	100.9	107.1	169.9	296.1	472.1	217.6	238.3	233.3	165.4	107.6	81.8
87.5°	47.7	51.7	81.8	137.4	185.1	85.2	121.1	133.5	103.8	65.5	42.6
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°	1762.4	1762.4	1762.4	1762.4	1762.4	1762.4	1762.4	1762.4	1762.4	1762.4
2.5°	1761.2	1771.4	1783.1	1789.2	1795.0	1801.6	1808.4	1808.4	1809.5	1810.1
5°	1748.9	1769.8	1788.2	1796.0	1797.7	1797.7	1796.0	1787.1	1779.3	1782.5
7.5°	1723.0	1753.4	1769.1	1766.2	1745.0	1720.3	1699.6	1674.4	1661.4	1659.2
10°	1686.1	1720.9	1723.7	1695.6	1642.9	1590.2	1546.5	1503.9	1483.7	1478.6
12.5°	1645.2	1677.1	1659.2	1601.5	1516.8	1440.0	1384.5	1341.3	1322.1	1317.2
15°	1612.1	1633.9	1588.6	1497.7	1391.1	1309.9	1263.8	1231.9	1218.6	1214.6
17.5°	1594.8	1599.3	1516.2	1393.5	1280.2	1212.4	1183.6	1168.5	1163.6	1160.7
20°	1603.1	1571.8	1447.3	1296.4	1189.3	1141.7	1134.9	1131.0	1129.9	1128.2
22.5°	1645.2	1563.3	1383.8	1204.4	1109.6	1088.9	1094.6	1094.0	1092.9	1091.7
25°	1720.3	1570.5	1322.1	1117.0	1042.9	1038.5	1048.5	1048.5	1044.1	1044.1
27.5°	1819.5	1585.8	1253.2	1033.9	982.3	982.9	990.8	988.6	983.6	980.1
30°	1940.7	1595.3	1172.5	959.4	925.8	923.5	925.8	916.2	901.1	900.0
32.5°	2064.7	1583.5	1078.9	893.3	865.7	860.8	859.0	845.6	828.1	823.1
35°	2176.8	1540.4	983.6	840.5	808.6	797.3	805.2	800.7	784.9	781.0
37.5°	2258.6	1460.1	897.8	794.0	767.6	764.8	769.8	771.6	753.0	749.1
40°	2313.6	1351.4	824.3	754.8	759.7	749.1	732.3	720.5	715.0	713.3
42.5°	2358.0	1238.1	762.7	736.3	761.5	730.6	694.2	675.2	685.1	689.7
45°	2408.8	1127.6	711.0	713.3	753.0	709.3	667.8	649.4	653.2	654.3
47.5°	2479.1	993.0	655.6	676.2	725.0	694.7	651.6	625.2	606.7	598.4
50°	2576.0	833.7	597.7	634.7	697.5	684.1	626.4	598.4	564.0	556.2
52.5°	2643.4	685.1	550.1	600.0	672.9	662.8	606.1	569.7	533.9	527.0
55°	2606.8	569.2	508.6	561.4	640.3	636.4	589.3	540.5	512.6	507.0
57.5°	2424.5	495.7	476.6	524.8	600.5	614.0	566.9	515.8	495.7	491.7
60°	2076.9	449.7	456.3	500.1	568.0	591.5	544.5	502.4	488.9	486.2
62.5°	1611.5	418.9	441.2	482.2	542.8	575.9	532.2	500.7	495.7	492.4
65°	1154.5	394.1	425.1	464.2	519.8	561.4	527.7	498.5	499.5	496.9
67.5°	784.5	372.3	405.5	444.1	497.4	548.3	521.5	490.7	504.7	501.3
70°	549.0	351.0	382.4	418.3	469.4	530.4	510.2	478.8	477.8	464.2
72.5°	428.4	323.0	351.0	382.4	433.4	505.2	487.8	452.4	434.1	420.0
73°	408.8	316.3	343.2	374.6	425.5	499.1	481.8	445.2	424.4	411.6
75°	338.1	287.1	311.7	339.7	391.9	470.0	451.4	412.1	385.8	377.9
77.5°	265.8	245.5	269.1	294.4	345.4	427.2	406.6	368.9	354.4	347.6
80°	196.8	203.6	224.2	246.8	299.4	381.9	363.4	325.7	390.9	374.6
82.5°	138.5	154.1	173.3	193.4	251.2	337.6	315.1	276.5	286.0	237.7
85°	81.8	100.9	118.8	136.3	181.1	279.8	260.1	220.4	180.6	172.1
87.5°	47.7	56.1	61.2	79.1	124.4	210.8	183.3	163.2	93.7	63.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)