

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: P268474

Luminaire Tested: **GAN-AF-04-LED-U-T4FT-7027-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P268474  
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-04-LED-U-T4FT-7027-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 2700K, 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: 13827.1 lumens  
Efficiency: N/A  
Efficacy: 107.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B2 - U0 - G3

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

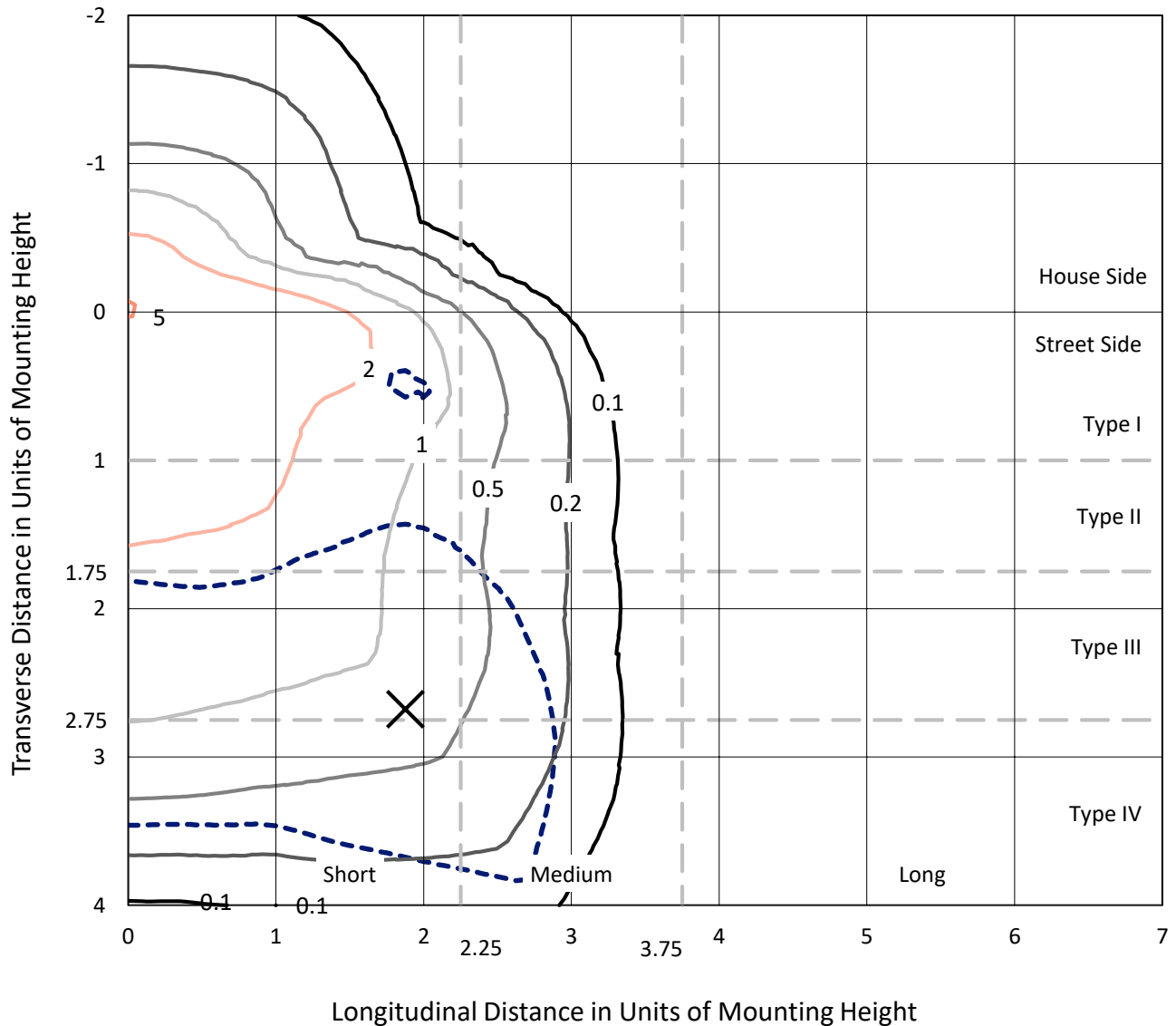


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

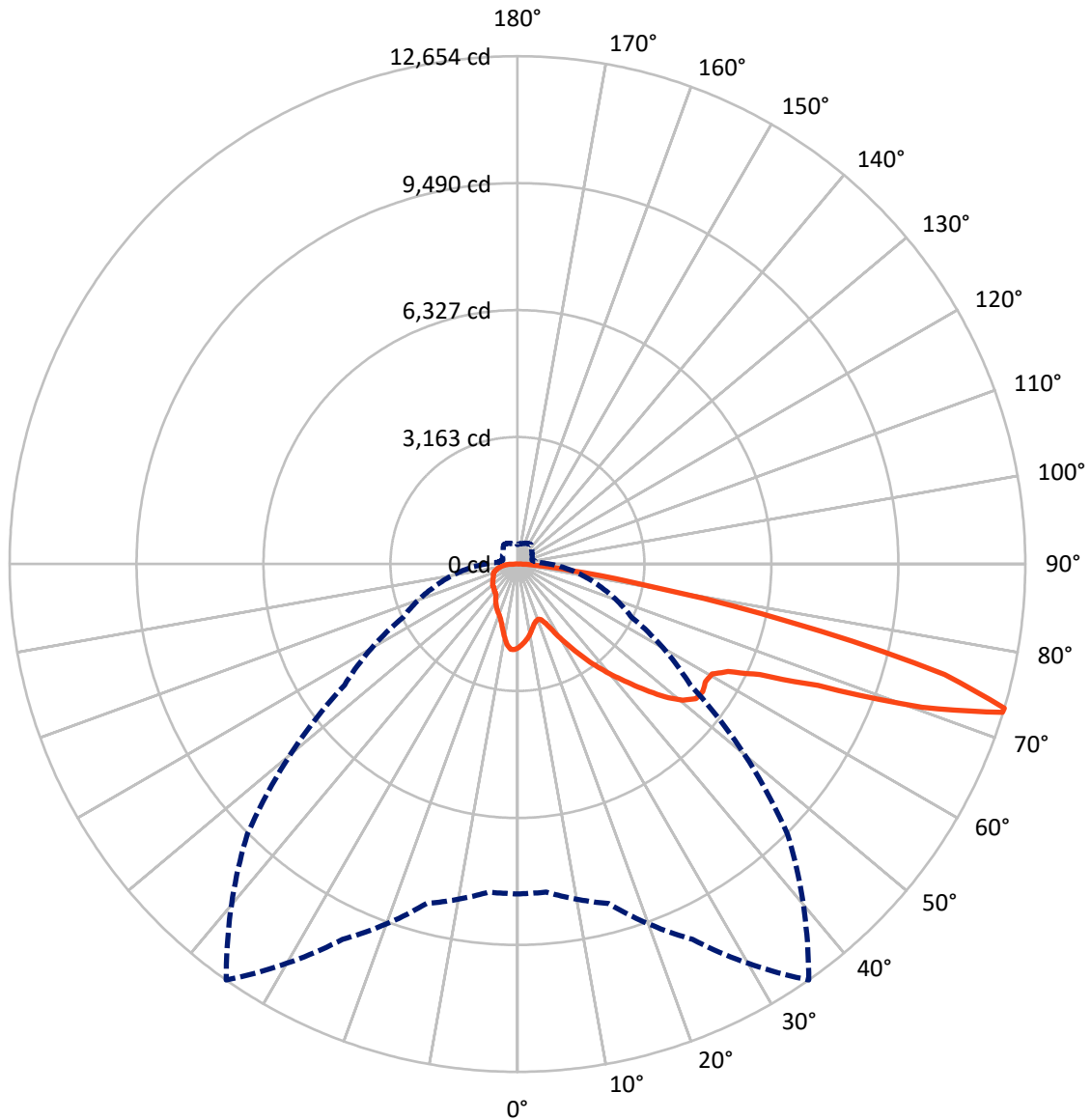


Based on 20 foot mounting height. Maximum calculated value = 5.2 fc  
 Type IV - Short - Non-Cutoff

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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
<b>House Side</b>	Lumens	2637.2	0.0	2637.2
	% Fixture	19.1	0.0	19.1
<b>Street Side</b>	Lumens	11189.9	0.0	11189.9
	% Fixture	80.9	0.0	80.9
<b>Total</b>	Lumens	13827.1	0.0	13827.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	188.9	1.4
10°-20°	471.5	3.4
20°-30°	762.3	5.5
30°-40°	1278.3	9.2
40°-50°	1970.4	14.3
50°-60°	2643.5	19.1
60°-70°	3521.7	25.5
70°-80°	2686.0	19.4
80°-90°	304.4	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°	13827.1	100.0
0°-180°	13827.1	100.0

**Coefficient of Utilization**



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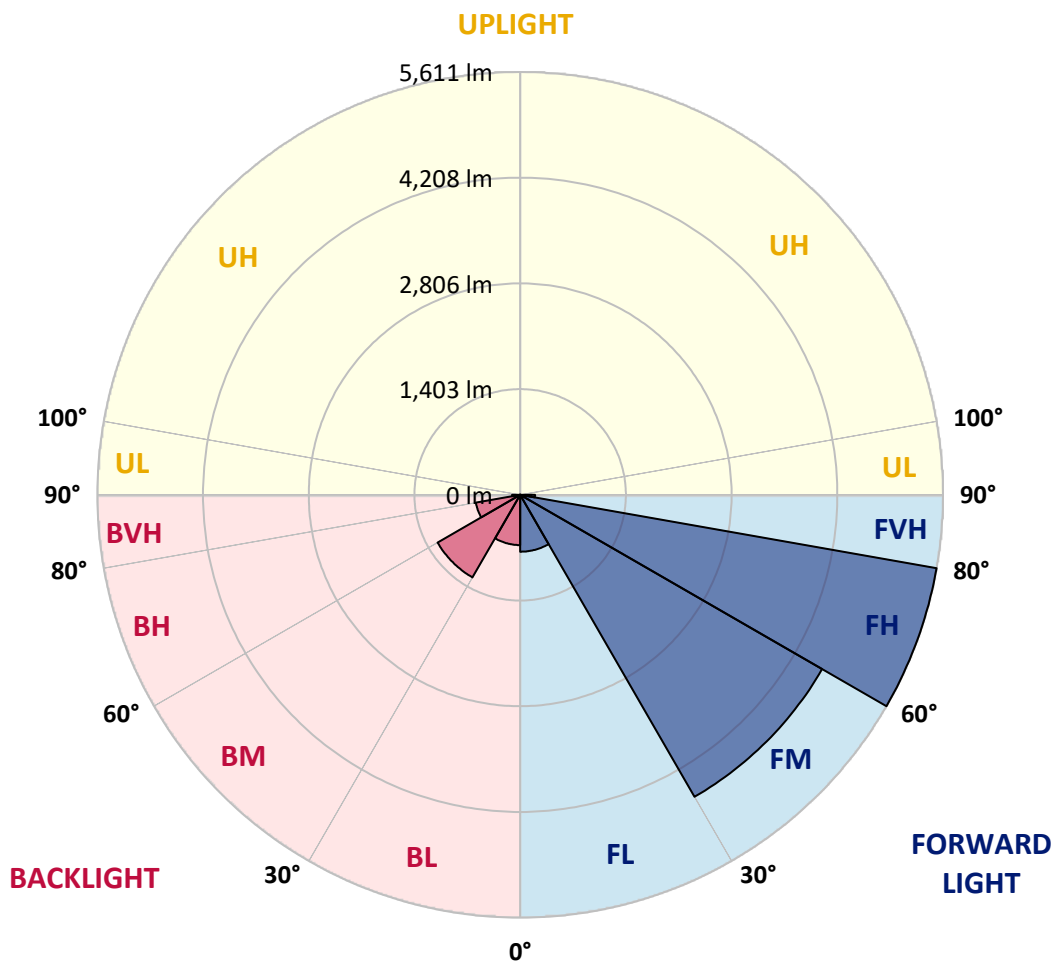
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	755.4	5.5			
FM	(30°-60°)	4626.6	33.5			
FH	(60°-80°)	5611.0	40.6			G3/7500
FVH	(80°-90°)	196.8	1.4			G2/225
BL	(0°-30°)	667.3	4.8	B2/1000		
BM	(30°-60°)	1265.6	9.2	B2/2500		
BH	(60°-80°)	596.7	4.3	B2/1000		G2/1000
BVH	(80°-90°)	107.7	0.8			G2/225
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°	2086.9	2086.9	2086.9	2086.9	2086.9	2086.9	2086.9	2086.9	2086.9	2086.9	2086.9
2.5°	2004.6	2008.6	2003.9	2009.9	2019.8	2030.4	2037.8	2048.4	2060.4	2077.1	2081.0
5°	1910.3	1916.4	1916.4	1927.0	1946.2	1963.4	1979.3	1996.7	2021.8	2050.4	2061.7
7.5°	1806.8	1810.1	1816.1	1832.0	1859.9	1884.5	1907.0	1934.9	1969.4	2007.3	2027.1
10°	1681.8	1686.6	1695.8	1718.4	1756.2	1790.1	1822.8	1861.2	1904.9	1952.1	1977.3
12.5°	1593.7	1592.2	1596.3	1612.8	1646.1	1687.1	1734.4	1783.5	1837.3	1892.4	1922.9
15°	1563.7	1556.5	1541.1	1537.2	1555.1	1596.3	1650.6	1711.1	1775.5	1842.0	1879.8
17.5°	1582.4	1569.7	1527.8	1497.4	1494.7	1526.0	1583.6	1651.4	1725.7	1806.8	1853.9
20°	1699.1	1669.3	1566.4	1495.3	1470.7	1486.1	1536.6	1608.1	1695.8	1803.3	1863.9
22.5°	1978.6	1934.9	1716.4	1584.3	1501.2	1482.7	1520.6	1596.8	1699.1	1844.6	1921.7
25°	2385.8	2323.3	1974.0	1806.0	1634.7	1535.8	1544.5	1622.8	1746.3	1940.2	2033.1
27.5°	2707.1	2666.6	2310.7	2118.8	1877.7	1679.2	1622.1	1687.8	1842.7	2097.0	2191.9
30°	2898.3	2873.8	2670.7	2473.5	2187.8	1907.7	1770.9	1810.1	1993.2	2314.0	2392.4
32.5°	3120.2	3105.5	3005.9	2824.6	2522.5	2207.8	2006.6	1992.7	2195.2	2575.0	2610.8
35°	3349.9	3345.2	3286.8	3156.6	2881.8	2603.6	2319.3	2225.0	2415.0	2845.9	2823.4
37.5°	3563.7	3555.8	3521.9	3446.2	3257.6	3028.5	2638.1	2463.4	2651.9	3104.8	3004.7
40°	3957.5	3895.1	3778.8	3721.7	3637.3	3386.4	2891.0	2685.8	2897.8	3351.8	3161.2
42.5°	4437.4	4335.8	4119.4	4041.0	4029.2	3668.6	3063.7	2901.6	3145.3	3596.9	3315.4
45°	4815.4	4719.6	4533.0	4434.2	4478.1	3924.2	3237.0	3132.1	3400.4	3853.8	3474.0
47.5°	5218.3	5068.2	4821.3	4851.1	4946.7	4165.9	3413.6	3379.8	3679.8	4141.4	3671.3
50°	5232.9	5118.2	5009.8	5188.5	5337.2	4388.4	3634.7	3639.4	4021.8	4503.3	3933.5
52.5°	4929.4	4904.9	5077.0	5357.9	5572.2	4564.3	3886.3	3907.5	4459.4	4918.8	4221.7
55°	4823.3	4795.4	4993.9	5298.7	5604.2	4709.8	4159.3	4197.8	4988.6	5357.1	4502.6
57.5°	5082.3	5020.4	5033.7	5270.9	5526.5	4869.2	4456.8	4534.5	5563.7	5740.3	4683.1
60°	5805.9	5673.9	5422.9	5416.9	5568.2	5108.1	4800.7	4895.7	6161.2	5923.6	4612.7
62.5°	6821.2	6689.0	6219.0	5913.0	5890.2	5502.6	5222.9	5248.3	6506.6	5675.2	4183.1
65°	7920.1	7802.0	7276.7	6844.5	6636.0	6155.9	5713.7	5405.6	6393.6	4991.9	3431.5
67.5°	9254.1	9127.3	8675.8	8276.8	8076.2	7210.3	6058.3	5254.8	5677.2	3867.2	2466.7
70°	10187.0	10057.6	9879.6	10202.9	10693.7	8731.5	6102.7	4642.0	4240.3	2570.3	1484.7
72.5°	8969.9	8909.5	9234.1	10596.0	12639.8	9654.5	5516.5	3379.8	2462.8	1364.5	859.1
73°	8218.2	8204.9	8758.7	10320.4	12653.7	9512.4	5259.5	3141.4	2112.2	1207.1	785.5
75°	3711.1	3817.9	5031.8	7882.9	10993.7	7838.5	3701.7	1802.1	1193.2	833.9	592.9
77.5°	891.7	928.9	1574.3	3743.5	6942.7	4671.2	1677.2	891.1	762.9	589.0	433.0
80°	379.9	392.4	606.3	1383.1	3268.8	1881.1	772.9	597.0	527.8	411.1	303.4
82.5°	211.1	224.4	344.0	627.5	1319.4	641.4	471.4	415.6	347.3	247.7	197.2
85°	119.6	126.8	201.2	350.6	559.0	257.6	282.2	276.1	195.9	127.5	96.9
87.5°	56.5	61.1	96.9	162.7	219.1	100.9	143.4	158.0	122.9	77.8	50.5
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°	2086.9	2086.9	2086.9	2086.9	2086.9	2086.9	2086.9	2086.9	2086.9	2086.9
2.5°	2085.7	2097.5	2111.5	2118.8	2125.5	2133.5	2141.4	2141.4	2142.6	2143.4
5°	2071.0	2095.6	2117.5	2126.7	2128.8	2128.8	2126.7	2116.1	2106.9	2110.8
7.5°	2040.5	2076.3	2094.8	2091.7	2066.3	2037.1	2012.6	1982.6	1967.4	1964.8
10°	1996.7	2037.8	2041.0	2007.9	1945.5	1883.0	1831.4	1780.8	1756.9	1750.9
12.5°	1948.2	1986.1	1964.8	1896.4	1796.2	1705.2	1639.3	1588.3	1565.7	1559.7
15°	1909.0	1934.9	1881.1	1773.6	1647.4	1551.2	1496.7	1458.8	1442.9	1438.2
17.5°	1888.3	1893.6	1795.4	1650.0	1515.9	1435.5	1401.6	1383.7	1377.8	1374.4
20°	1898.4	1861.2	1713.7	1535.2	1408.4	1351.9	1344.0	1339.4	1337.9	1336.0
22.5°	1948.2	1851.2	1638.8	1426.2	1314.0	1289.4	1296.2	1295.4	1294.1	1292.8
25°	2037.1	1859.9	1565.7	1322.7	1235.0	1229.7	1241.6	1241.6	1236.3	1236.3
27.5°	2154.7	1877.7	1484.0	1224.4	1163.3	1163.9	1173.2	1170.6	1164.7	1160.7
30°	2298.1	1889.0	1388.4	1136.0	1096.2	1093.5	1096.2	1085.0	1067.0	1065.7
32.5°	2444.8	1875.1	1277.5	1057.8	1025.2	1019.2	1017.2	1001.3	980.7	974.8
35°	2577.6	1824.0	1164.7	995.3	957.5	944.2	953.6	948.3	929.6	925.0
37.5°	2674.6	1729.1	1063.1	940.3	909.1	905.8	911.7	913.7	891.7	887.0
40°	2739.7	1600.2	976.1	893.8	899.7	887.0	867.1	853.2	846.7	844.5
42.5°	2792.1	1466.2	903.1	871.9	901.7	865.2	821.9	799.4	811.3	816.6
45°	2852.5	1335.3	841.9	844.5	891.7	839.9	790.8	768.9	773.6	774.9
47.5°	2935.5	1175.9	776.2	800.7	858.5	822.7	771.6	740.4	718.5	708.6
50°	3050.5	987.3	707.9	751.6	826.0	810.1	741.7	708.6	668.0	658.6
52.5°	3130.1	811.3	651.5	710.5	796.7	784.8	717.7	674.5	632.1	624.1
55°	3086.9	674.0	602.3	664.7	758.3	753.7	697.9	640.1	606.9	600.2
57.5°	2871.2	587.0	564.3	621.4	711.2	727.1	671.4	610.8	587.0	582.3
60°	2459.4	532.5	540.5	592.3	672.7	700.5	644.8	594.9	579.0	575.6
62.5°	1908.3	496.0	522.5	571.1	642.7	682.0	630.2	592.9	587.0	583.0
65°	1367.2	466.8	503.3	549.9	615.5	664.7	624.9	590.2	591.7	588.3
67.5°	928.9	440.9	480.1	525.9	589.0	649.4	617.6	581.1	597.6	593.6
70°	650.1	415.6	452.8	495.3	555.8	628.2	604.2	567.1	565.8	549.9
72.5°	507.4	382.5	415.6	452.8	513.3	598.2	577.7	535.8	513.9	497.3
73°	484.0	374.6	406.4	443.6	503.9	590.9	570.3	527.2	502.6	487.4
75°	400.4	340.0	369.2	402.4	464.2	556.4	534.5	488.0	456.8	447.5
77.5°	314.8	290.8	318.7	348.6	409.0	505.9	481.4	436.9	419.7	411.7
80°	233.1	241.0	265.5	292.2	354.7	452.1	430.3	385.8	462.7	443.6
82.5°	164.0	182.5	205.2	229.1	297.5	399.7	373.2	327.3	338.7	281.4
85°	96.9	119.6	140.8	161.3	214.4	331.4	308.1	261.0	213.7	203.8
87.5°	56.5	66.5	72.4	93.7	147.4	249.6	217.1	193.2	110.9	75.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)