

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: P200362

Luminaire Tested: **GAP-AF-02-LED-U-T3R-7050-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200362
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P40129)
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-T3R-7050-1200
Description: GALLEON PEDESTRIAN LUMINAIRE
(2) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13933 lumens
Efficiency: N/A
Efficacy: 108.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short - Full 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

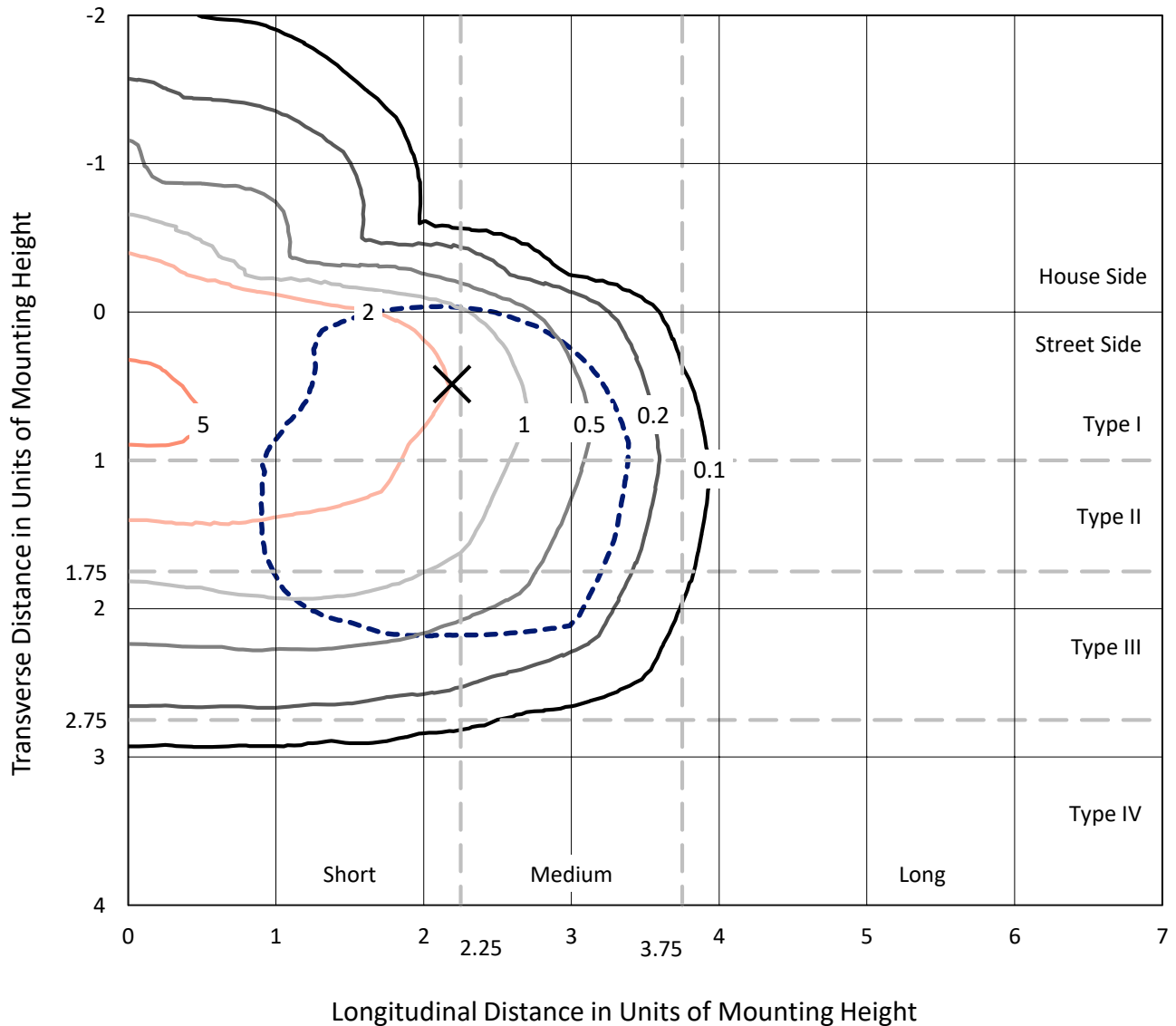


REPORT NUMBER: P200362

CATALOG NUMBER: GAP-AF-02-LED-U-T3R-7050-1200

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

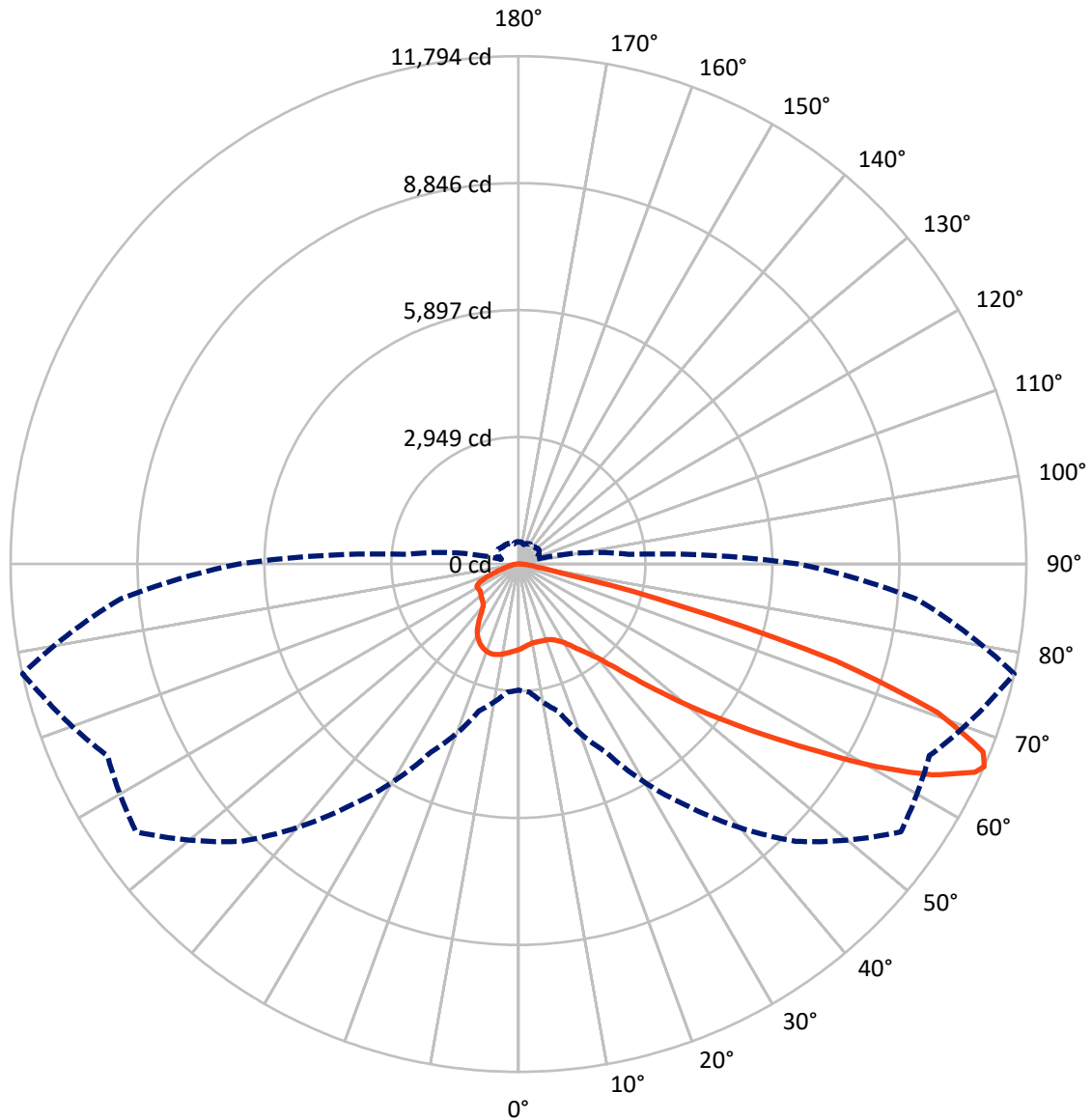


Based on 20 foot mounting height. Maximum calculated value = 6.1 fc
 Type III - Short - Full Cutoff

REPORT NUMBER: P200362

CATALOG NUMBER: GAP-AF-02-LED-U-T3R-7050-1200

Luminous Intensity Polar Plot



— Vertical Plane Through 77.5-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

REPORT NUMBER: P200362

CATALOG NUMBER: GAP-AF-02-LED-U-T3R-7050-1200

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2380.4	0.0	2380.4
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	11552.6	0.0	11552.6
	% Fixture	82.9	0.0	82.9
Total	Lumens	13933.0	0.0	13933.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.4	1.3
10°-20°	500.4	3.6
20°-30°	854.1	6.1
30°-40°	1367.2	9.8
40°-50°	2112.3	15.2
50°-60°	2995.9	21.5
60°-70°	4007.7	28.8
70°-80°	1740.5	12.5
80°-90°	177.5	1.3
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°	13933.0	100.0
0°-180°	13933.0	100.0

Coefficient of Utilization



REPORT NUMBER: P200362

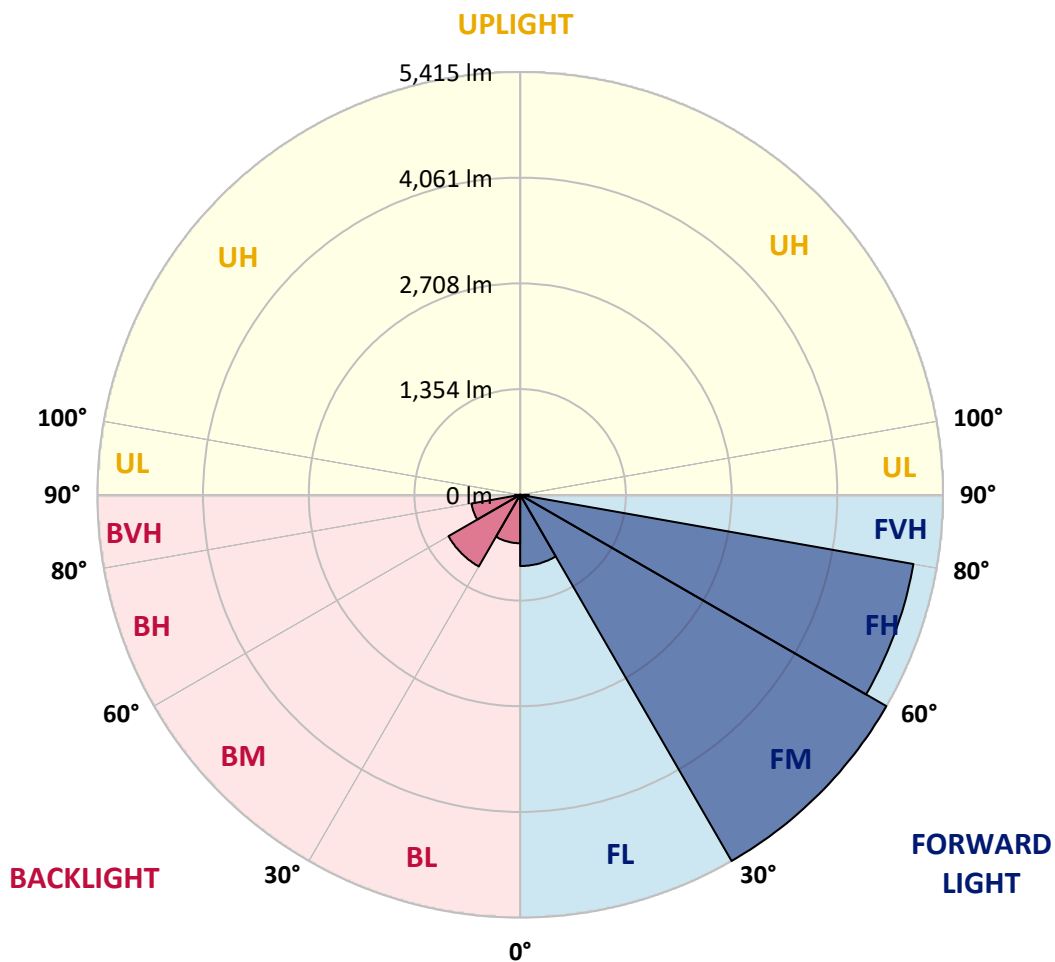
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	912.0	6.5			
FM (30°-60°)	5415.1	38.9			
FH (60°-80°)	5114.3	36.7			G3/7500
FVH (80°-90°)	111.3	0.8			G2/225
BL (0°-30°)	619.9	4.4	B2/1000		
BM (30°-60°)	1060.3	7.6	B2/2500		
BH (60°-80°)	633.9	4.5	B2/1000		G2/1000
BVH (80°-90°)	66.2	0.5			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 III Short





REPORT NUMBER: P200362

CATALOG NUMBER: GAP-AF-02-LED-U-T3R-7050-1200

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	1985.5	1985.5	1985.5	1985.5	1985.5	1985.5	1985.5	1985.5	1985.5	1985.5	1985.5
2.5°	1756.4	1768.3	1778.1	1787.4	1805.8	1836.1	1871.0	1899.3	1940.1	1948.0	1969.7
5°	1595.1	1595.1	1603.0	1616.9	1641.9	1687.3	1734.7	1797.9	1886.8	1907.8	1965.8
7.5°	1516.8	1517.4	1522.1	1533.9	1555.6	1597.1	1649.1	1723.5	1844.0	1878.9	1977.6
10°	1545.8	1539.2	1529.3	1523.4	1526.7	1551.0	1600.4	1683.3	1817.6	1862.4	2004.0
12.5°	1707.7	1695.2	1661.0	1615.5	1572.1	1554.3	1583.3	1664.3	1806.5	1858.5	2038.8
15°	1972.4	1967.1	1903.2	1809.1	1703.8	1615.5	1595.8	1657.0	1807.8	1863.1	2080.3
17.5°	2304.1	2296.9	2212.6	2075.7	1903.9	1732.1	1639.9	1662.9	1812.4	1871.0	2120.5
20°	2639.2	2616.9	2526.0	2362.7	2142.2	1890.7	1713.0	1678.1	1818.3	1879.5	2162.6
22.5°	2889.4	2871.0	2789.3	2630.7	2376.6	2074.4	1811.1	1704.4	1837.4	1904.5	2214.6
25°	3109.3	3110.6	3029.6	2876.2	2613.6	2269.3	1937.5	1774.9	1886.1	1955.9	2285.7
27.5°	3381.2	3365.4	3289.7	3137.6	2847.9	2466.1	2090.2	1871.6	1958.5	2029.0	2379.2
30°	3706.4	3695.2	3607.6	3435.2	3108.0	2677.4	2264.7	1984.2	2052.0	2125.1	2501.6
32.5°	4088.9	4083.6	3992.8	3770.9	3408.2	2926.3	2469.4	2133.0	2191.6	2267.3	2677.4
35°	4537.9	4538.5	4431.2	4164.6	3736.7	3215.9	2701.8	2324.6	2361.4	2440.4	2886.8
37.5°	4814.4	4847.9	4807.8	4535.9	4108.6	3539.8	3003.3	2578.7	2555.0	2634.6	3111.3
40°	4873.6	4914.4	5041.5	4903.2	4524.7	3896.6	3270.6	2822.9	2793.3	2890.7	3400.3
42.5°	4790.7	4847.3	5115.9	5213.3	4966.4	4336.4	3630.0	3185.7	3148.1	3279.1	3759.7
45°	4741.3	4783.4	5094.1	5374.6	5349.6	4833.4	4087.6	3641.2	3627.4	3799.2	4174.5
47.5°	4655.7	4693.9	4992.8	5412.1	5574.7	5289.0	4637.3	4198.2	4225.2	4450.3	4642.5
50°	4701.8	4717.6	4879.5	5316.7	5639.9	5622.8	5251.5	4843.3	4935.5	5216.6	5172.5
52.5°	4695.2	4736.0	4866.4	5160.0	5648.5	5828.8	5856.5	5562.9	5757.1	6079.7	5760.4
55°	3795.9	3871.0	4711.7	5120.5	5678.7	6030.9	6395.0	6321.3	6683.4	7059.3	6424.0
57.5°	3624.8	3672.2	4138.3	5203.4	5839.4	6416.7	6994.1	7156.0	7761.7	8198.2	7232.4
60°	3591.2	3649.8	4132.3	5304.8	6165.2	7045.4	7882.2	8166.6	9073.7	9551.7	8169.9
62.5°	3486.5	3549.7	4093.5	5291.6	6628.1	7915.1	9019.1	9241.0	10318.0	10782.8	8953.9
65°	3154.7	3214.0	3776.8	5079.0	6940.1	8843.3	10364.7	10225.8	11300.2	11649.8	9345.0
66°	2927.6	2985.5	3527.3	4828.8	6867.7	9106.7	10841.4	10530.6	11520.1	11794.0	9268.6
67.5°	2512.2	2557.6	3042.8	4268.6	6482.6	9180.4	11242.3	10759.7	11543.1	11639.9	8832.1
70°	1587.2	1600.4	1977.6	2946.7	4907.2	7961.8	10632.0	10190.9	10591.2	10329.2	7404.2
72.5°	688.6	684.0	949.3	1499.0	2778.1	5342.3	8600.4	8408.8	8308.1	7710.3	5183.0
75°	383.1	388.4	493.1	695.9	1129.0	2624.1	5626.1	5383.8	4545.8	3878.9	2350.2
77.5°	307.4	314.7	408.8	493.7	506.9	915.1	2632.7	2142.2	1289.7	1034.9	653.1
80°	242.9	256.1	356.8	384.5	341.7	377.2	850.6	680.1	510.2	468.1	338.4
82.5°	192.2	201.4	306.1	291.0	239.0	254.1	407.5	397.0	331.8	302.2	195.5
85°	138.2	155.4	251.5	219.2	156.7	171.2	270.6	259.4	190.3	155.4	86.2
87.5°	56.6	73.7	177.7	145.5	87.6	79.7	135.0	127.1	90.2	65.8	42.8
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: P200362

CATALOG NUMBER: GAP-AF-02-LED-U-T3R-7050-1200

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1985.5	1985.5	1985.5	1985.5	1985.5	1985.5	1985.5	1985.5	1985.5	1985.5	1985.5
2.5°	1983.5	1999.3	2019.8	2032.3	2038.8	2043.5	2050.7	2050.0	2052.0	2052.7	2055.3
5°	1996.7	2023.0	2052.7	2060.6	2060.6	2053.3	2046.1	2034.2	2029.6	2028.3	2029.6
7.5°	2030.9	2059.9	2085.6	2076.4	2056.6	2027.7	1990.1	1957.2	1939.4	1933.5	1932.2
10°	2074.4	2109.3	2119.8	2084.9	2027.0	1957.2	1882.8	1828.8	1797.9	1789.3	1786.7
12.5°	2127.1	2160.0	2145.5	2071.8	1964.5	1851.9	1749.2	1662.9	1598.4	1578.0	1576.7
15°	2185.0	2210.7	2160.0	2030.9	1871.0	1705.1	1522.1	1373.3	1293.0	1267.3	1265.3
17.5°	2239.0	2252.1	2151.4	1959.8	1733.4	1464.8	1221.9	1107.3	1079.7	1086.2	1087.6
20°	2285.1	2285.1	2122.5	1857.8	1516.8	1148.1	994.7	992.8	1012.5	1032.3	1036.2
22.5°	2335.7	2305.5	2071.8	1713.6	1210.0	939.4	917.1	935.5	957.9	979.6	982.9
25°	2398.3	2321.9	2001.3	1495.1	951.3	853.2	861.8	876.9	888.1	901.9	903.9
27.5°	2468.1	2343.0	1908.5	1194.2	825.5	799.2	805.8	811.1	809.7	815.0	816.3
30°	2551.7	2367.3	1781.4	933.5	773.5	753.1	741.3	736.7	736.7	745.2	748.5
32.5°	2663.6	2403.6	1599.1	799.9	748.5	720.2	682.0	664.9	671.5	700.5	707.0
35°	2786.7	2442.4	1352.2	754.4	743.3	705.1	645.8	614.2	614.9	641.9	650.4
37.5°	2921.0	2491.8	1081.6	745.9	755.1	705.7	626.7	583.3	565.5	565.5	568.8
40°	3092.8	2542.5	875.6	751.8	780.1	713.6	616.9	558.9	508.9	510.2	512.8
42.5°	3316.7	2585.9	765.0	764.3	810.4	724.2	616.2	526.7	483.2	512.8	539.8
45°	3565.5	2607.6	716.3	775.5	834.8	730.7	605.7	521.4	486.5	574.7	626.1
47.5°	3851.9	2595.1	689.3	779.5	840.7	730.7	593.8	533.9	509.5	665.6	725.5
50°	4165.9	2558.9	662.9	771.6	838.7	729.4	605.0	546.4	518.1	681.4	722.8
52.5°	4535.2	2528.6	635.3	754.4	824.9	722.2	618.2	541.1	491.1	619.5	648.5
55°	4956.6	2537.2	604.3	730.1	803.2	708.4	613.6	520.1	462.8	545.8	563.5
57.5°	5495.1	2639.2	567.5	699.1	773.5	685.3	597.1	510.2	454.2	495.1	505.6
60°	6096.1	2817.0	521.4	668.2	736.7	648.5	584.6	514.8	458.2	491.1	496.4
62.5°	6537.2	2920.3	481.9	622.8	686.6	607.6	568.8	520.7	468.7	504.9	503.6
65°	6657.0	2750.5	432.5	556.3	618.8	564.8	549.0	527.3	473.3	516.1	510.2
66°	6489.1	2567.5	410.8	525.3	584.6	543.8	539.2	526.7	471.4	517.4	507.6
67.5°	6081.6	2192.2	373.3	479.9	530.0	512.2	523.4	520.7	466.1	516.1	502.3
70°	4959.8	1495.7	319.3	399.6	441.1	451.0	493.1	499.7	449.0	493.1	462.8
72.5°	3465.4	911.1	282.4	310.1	356.8	384.5	451.6	470.7	425.9	430.5	401.6
75°	1674.8	483.9	256.1	240.3	277.2	321.3	401.6	431.2	389.7	360.1	349.6
77.5°	522.1	295.6	217.2	193.5	217.2	259.4	335.7	377.9	346.9	301.5	297.6
80°	280.4	217.2	167.2	155.4	171.8	203.4	264.0	315.3	298.2	270.6	241.6
82.5°	185.0	140.9	123.8	120.5	131.0	155.4	196.2	261.4	261.4	231.7	168.5
85°	95.5	86.2	84.9	84.9	91.5	103.4	133.6	201.4	214.6	122.4	101.4
87.5°	47.4	49.4	46.1	48.1	51.3	50.7	63.9	101.4	121.1	74.4	61.9
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)