

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: P200360

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200360
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
Description: GALLEON PEDESTRIAN LUMINAIRE
(2) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12702 lumens
Efficiency: N/A
Efficacy: 112.4 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 - G2

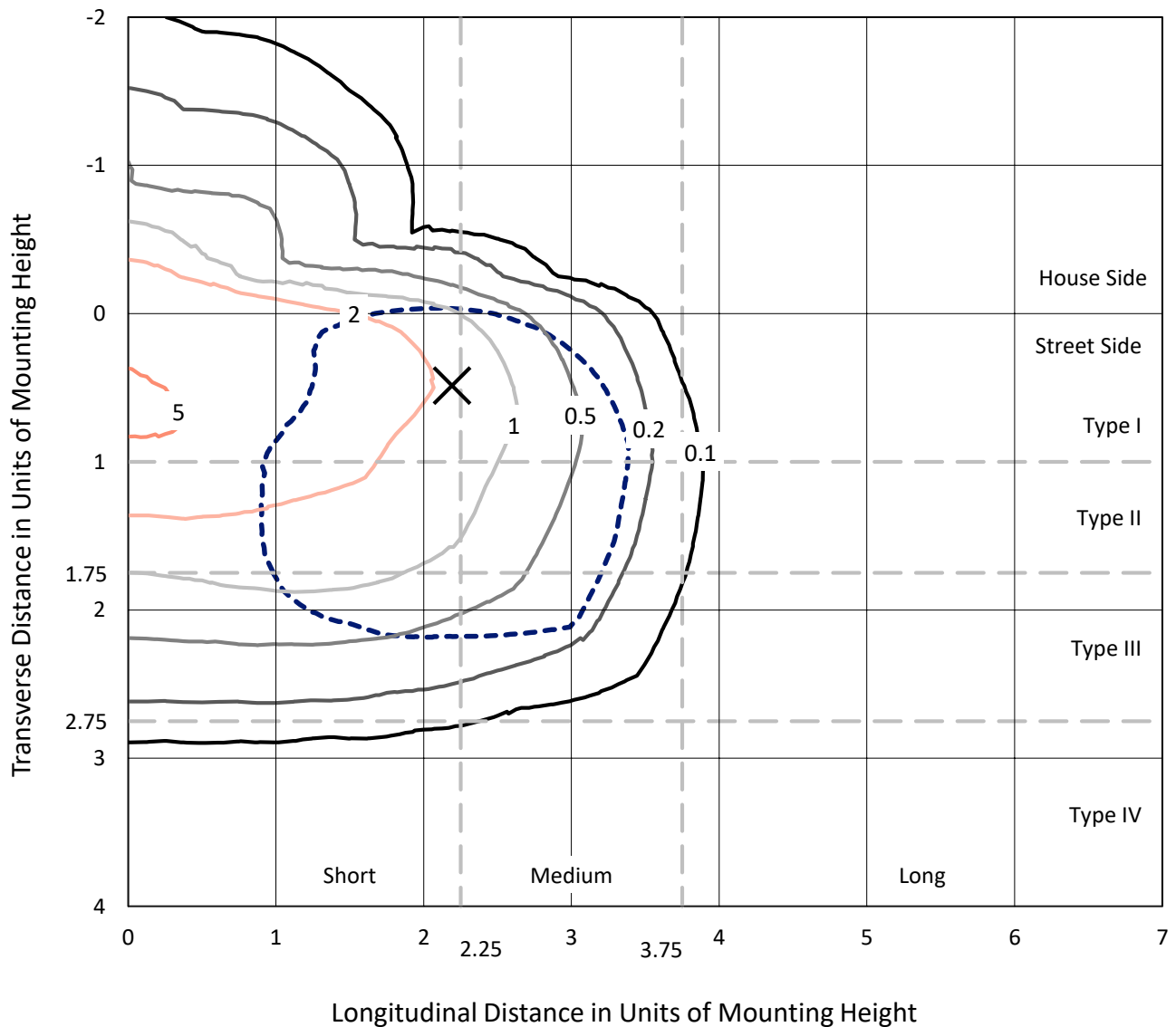
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

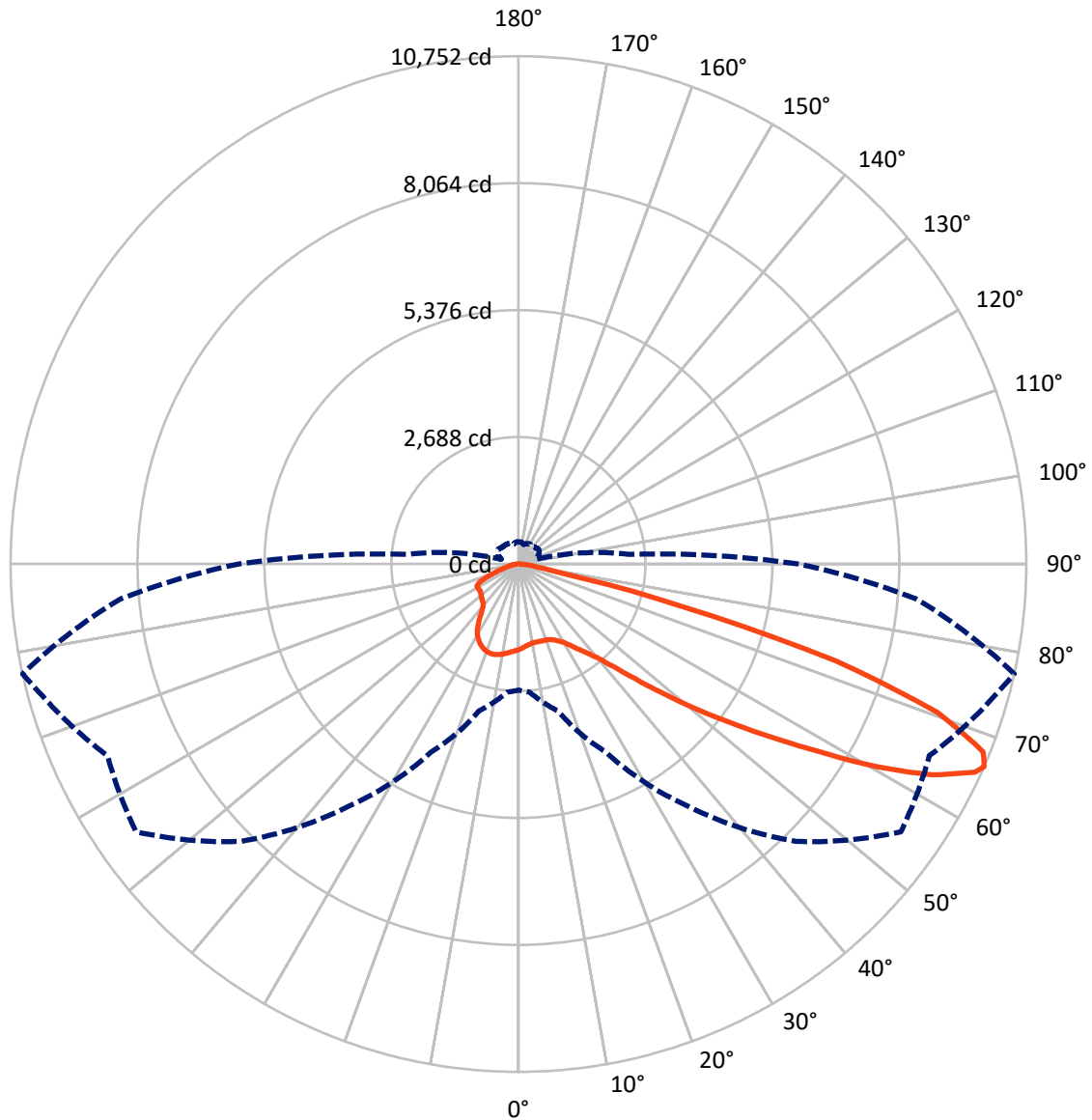
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.6 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



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



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2170.0	0.0	2170.0
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	10531.9	0.0	10531.9
	% Fixture	82.9	0.0	82.9
Total	Lumens	12702.0	0.0	12702.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.7	1.3
10°-20°	456.2	3.6
20°-30°	778.6	6.1
30°-40°	1246.4	9.8
40°-50°	1925.6	15.2
50°-60°	2731.2	21.5
60°-70°	3653.6	28.8
70°-80°	1586.7	12.5
80°-90°	161.8	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°	12702.0	100.0
0°-180°	12702.0	100.0



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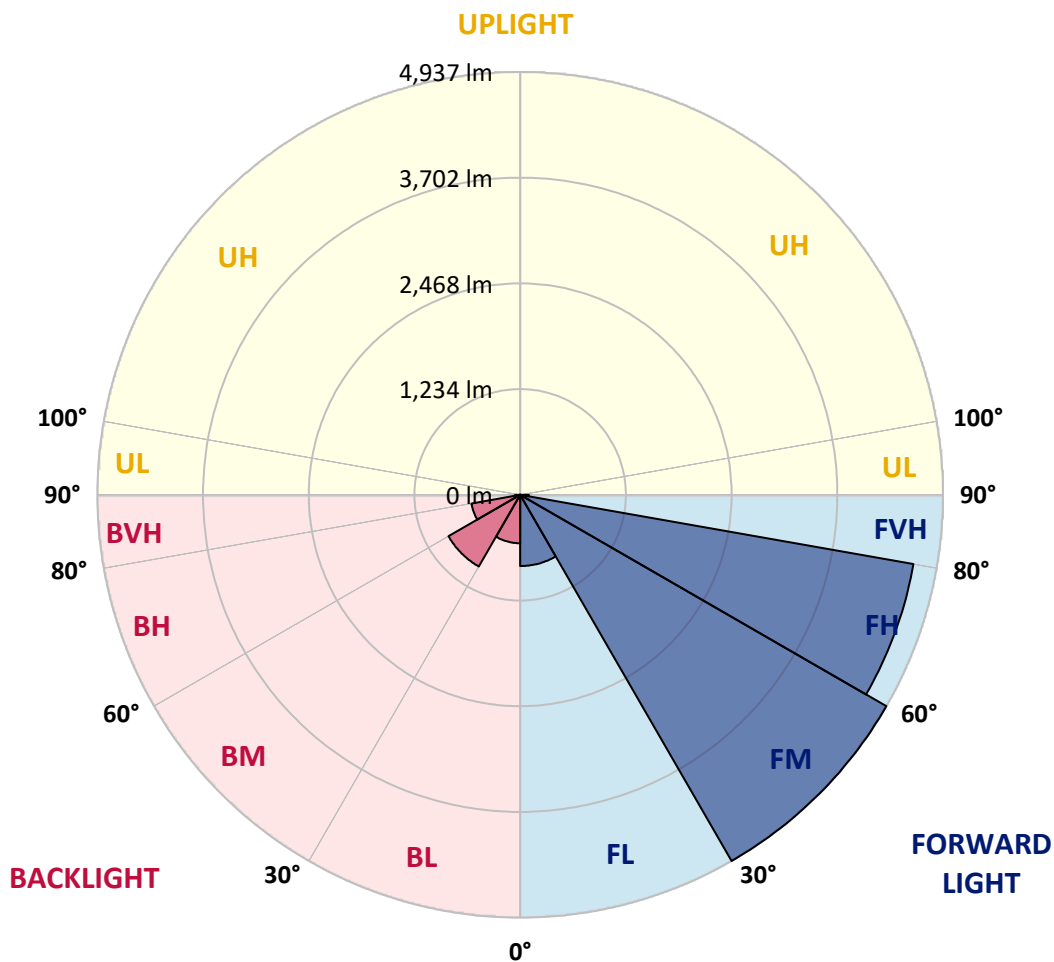
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	831.4	6.5			
FM	(30°-60°)	4936.7	38.9			
FH	(60°-80°)	4662.4	36.7			G2/5000
FVH	(80°-90°)	101.5	0.8			G2/225
BL	(0°-30°)	565.2	4.4	B2/1000		
BM	(30°-60°)	966.6	7.6	B1/1000		
BH	(60°-80°)	577.9	4.5	B2/1000		G2/1000
BVH	(80°-90°)	60.3	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-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	1810.1	1810.1	1810.1	1810.1	1810.1	1810.1	1810.1	1810.1	1810.1	1810.1	1810.1
2.5°	1601.2	1612.0	1621.0	1629.4	1646.3	1673.9	1705.7	1731.5	1768.7	1775.9	1795.7
5°	1454.2	1454.2	1461.4	1474.0	1496.8	1538.2	1581.4	1639.0	1720.1	1739.3	1792.1
7.5°	1382.8	1383.4	1387.6	1398.4	1418.2	1456.0	1503.4	1571.2	1681.1	1712.9	1802.9
10°	1409.2	1403.2	1394.2	1388.8	1391.8	1414.0	1459.0	1534.6	1657.1	1697.9	1826.9
12.5°	1556.8	1545.4	1514.2	1472.8	1433.2	1417.0	1443.4	1517.2	1646.9	1694.3	1858.7
15°	1798.1	1793.3	1735.1	1649.3	1553.2	1472.8	1454.8	1510.6	1648.1	1698.5	1896.5
17.5°	2100.6	2094.0	2017.2	1892.3	1735.7	1579.0	1495.0	1516.0	1652.3	1705.7	1933.1
20°	2406.1	2385.7	2302.8	2154.0	1952.9	1723.7	1561.6	1529.8	1657.7	1713.5	1971.5
22.5°	2634.1	2617.3	2542.9	2398.3	2166.6	1891.1	1651.1	1553.8	1675.1	1736.3	2019.0
25°	2834.6	2835.8	2762.0	2622.1	2382.7	2068.8	1766.3	1618.0	1719.5	1783.1	2083.8
27.5°	3082.4	3068.0	2999.0	2860.4	2596.3	2248.2	1905.5	1706.3	1785.5	1849.7	2169.0
30°	3378.9	3368.7	3288.9	3131.7	2833.4	2440.9	2064.6	1808.9	1870.7	1937.3	2280.6
32.5°	3727.6	3722.8	3640.0	3437.7	3107.1	2667.7	2251.2	1944.5	1997.9	2067.0	2440.9
35°	4136.9	4137.5	4039.7	3796.6	3406.5	2931.8	2463.1	2119.2	2152.8	2224.8	2631.7
37.5°	4389.0	4419.6	4383.0	4135.1	3745.6	3227.1	2737.9	2350.8	2329.2	2401.9	2836.4
40°	4443.0	4480.2	4596.1	4470.0	4124.9	3552.4	2981.6	2573.5	2546.5	2635.3	3099.8
42.5°	4367.4	4419.0	4663.9	4752.7	4527.6	3953.3	3309.3	2904.2	2870.0	2989.4	3427.5
45°	4322.4	4360.8	4644.1	4899.7	4876.9	4406.4	3726.4	3319.5	3306.9	3463.5	3805.6
47.5°	4244.4	4279.2	4551.6	4934.0	5082.2	4821.7	4227.6	3827.2	3851.9	4057.1	4232.4
50°	4286.4	4300.8	4448.4	4846.9	5141.6	5126.0	4787.5	4415.4	4499.4	4755.7	4715.5
52.5°	4280.4	4317.6	4436.4	4704.1	5149.4	5313.9	5339.1	5071.4	5248.4	5542.5	5251.4
55°	3460.5	3529.0	4295.4	4668.1	5177.0	5498.1	5830.0	5762.8	6092.9	6435.6	5856.4
57.5°	3304.5	3347.7	3772.6	4743.7	5323.5	5849.8	6376.1	6523.8	7075.9	7473.8	6593.4
60°	3273.9	3327.3	3767.2	4836.1	5620.5	6423.0	7185.8	7445.0	8272.1	8707.8	7448.0
62.5°	3178.5	3236.1	3731.8	4824.1	6042.5	7215.8	8222.3	8424.5	9406.4	9830.1	8162.8
65°	2876.0	2930.0	3443.1	4630.3	6326.9	8062.0	9449.0	9322.4	10301.8	10620.5	8519.3
66°	2668.9	2721.7	3215.7	4402.2	6260.9	8302.1	9883.5	9600.2	10502.3	10751.9	8449.7
67.5°	2290.2	2331.6	2774.0	3891.5	5909.8	8369.3	10249.0	9809.1	10523.3	10611.5	8051.8
70°	1447.0	1459.0	1802.9	2686.3	4473.6	7258.4	9692.7	9290.5	9655.4	9416.6	6750.0
72.5°	627.8	623.6	865.4	1366.6	2532.7	4870.3	7840.5	7665.9	7574.1	7029.1	4725.1
75°	349.3	354.1	449.5	634.4	1029.3	2392.3	5129.0	4908.1	4144.1	3536.2	2142.6
77.5°	280.3	286.9	372.7	450.1	462.1	834.2	2400.1	1952.9	1175.7	943.5	595.4
80°	221.5	233.5	325.3	350.5	311.5	343.9	775.4	620.0	465.1	426.7	308.5
82.5°	175.2	183.7	279.1	265.3	217.9	231.7	371.5	361.9	302.5	275.5	178.2
85°	126.0	141.6	229.3	199.9	142.8	156.0	246.7	236.5	173.4	141.6	78.6
87.5°	51.6	67.2	162.0	132.6	79.8	72.6	123.0	115.8	82.2	60.0	39.0
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1810.1	1810.1	1810.1	1810.1	1810.1	1810.1	1810.1	1810.1	1810.1	1810.1	1810.1
2.5°	1808.3	1822.7	1841.3	1852.7	1858.7	1862.9	1869.5	1868.9	1870.7	1871.3	1873.7
5°	1820.3	1844.3	1871.3	1878.5	1878.5	1871.9	1865.3	1854.5	1850.3	1849.1	1850.3
7.5°	1851.5	1877.9	1901.3	1892.9	1874.9	1848.5	1814.3	1784.3	1768.1	1762.7	1761.5
10°	1891.1	1922.9	1932.5	1900.7	1847.9	1784.3	1716.5	1667.3	1639.0	1631.2	1628.8
12.5°	1939.1	1969.1	1955.9	1888.7	1790.9	1688.3	1594.6	1516.0	1457.2	1438.6	1437.4
15°	1991.9	2015.4	1969.1	1851.5	1705.7	1554.4	1387.6	1251.9	1178.7	1155.3	1153.5
17.5°	2041.2	2053.2	1961.3	1786.7	1580.2	1335.4	1113.9	1009.5	984.3	990.3	991.5
20°	2083.2	2083.2	1934.9	1693.7	1382.8	1046.7	906.8	905.0	923.1	941.1	944.7
22.5°	2129.4	2101.8	1888.7	1562.2	1103.1	856.4	836.0	852.8	873.2	893.0	896.0
25°	2186.4	2116.8	1824.5	1363.0	867.2	777.8	785.6	799.4	809.6	822.2	824.0
27.5°	2250.0	2136.0	1739.9	1088.7	752.6	728.6	734.6	739.4	738.2	743.0	744.2
30°	2326.2	2158.2	1624.0	851.0	705.2	686.6	675.8	671.6	671.6	679.4	682.4
32.5°	2428.3	2191.2	1457.8	729.2	682.4	656.6	621.8	606.2	612.2	638.6	644.6
35°	2540.5	2226.6	1232.7	687.8	677.6	642.8	588.8	560.0	560.6	585.2	593.0
37.5°	2662.9	2271.6	986.1	680.0	688.4	643.4	571.4	531.7	515.5	515.5	518.5
40°	2819.6	2317.8	798.2	685.4	711.2	650.6	562.4	509.5	463.9	465.1	467.5
42.5°	3023.6	2357.4	697.4	696.8	738.8	660.2	561.8	480.1	440.5	467.5	492.1
45°	3250.5	2377.3	653.0	707.0	761.0	666.2	552.2	475.3	443.5	523.9	570.8
47.5°	3511.6	2365.8	628.4	710.6	766.4	666.2	541.3	486.7	464.5	606.8	661.4
50°	3797.8	2332.8	604.4	703.4	764.6	665.0	551.6	498.1	472.3	621.2	659.0
52.5°	4134.5	2305.2	579.2	687.8	752.0	658.4	563.6	493.3	447.7	564.8	591.2
55°	4518.6	2313.0	551.0	665.6	732.2	645.8	559.4	474.1	421.9	497.5	513.7
57.5°	5009.6	2406.1	517.3	637.4	705.2	624.8	544.3	465.1	414.1	451.3	460.9
60°	5557.5	2568.1	475.3	609.2	671.6	591.2	532.9	469.3	417.7	447.7	452.5
62.5°	5959.6	2662.3	439.3	567.8	626.0	554.0	518.5	474.7	427.3	460.3	459.1
65°	6068.9	2507.5	394.3	507.1	564.2	514.9	500.5	480.7	431.5	470.5	465.1
66°	5915.8	2340.6	374.5	478.9	532.9	495.7	491.5	480.1	429.7	471.7	462.7
67.5°	5544.3	1998.5	340.3	437.5	483.1	466.9	477.1	474.7	424.9	470.5	457.9
70°	4521.6	1363.6	291.1	364.3	402.1	411.1	449.5	455.5	409.3	449.5	421.9
72.5°	3159.3	830.6	257.5	282.7	325.3	350.5	411.7	429.1	388.3	392.5	366.1
75°	1526.8	441.1	233.5	219.1	252.7	292.9	366.1	393.1	355.3	328.3	318.7
77.5°	475.9	269.5	198.1	176.4	198.1	236.5	306.1	344.5	316.3	274.9	271.3
80°	255.7	198.1	152.4	141.6	156.6	185.5	240.7	287.5	271.9	246.7	220.3
82.5°	168.6	128.4	112.8	109.8	119.4	141.6	178.8	238.3	238.3	211.3	153.6
85°	87.0	78.6	77.4	77.4	83.4	94.2	121.8	183.7	195.7	111.6	92.4
87.5°	43.2	45.0	42.0	43.8	46.8	46.2	58.2	92.4	110.4	67.8	56.4
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)