

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: P269829

Luminaire Tested: **GAP-AF-01-LED-U-T3R-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269829
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-01-LED-U-T3R-7027
Description: GALLEON PEDESTRIAN LUMINAIRE
(1) 70 CRI, 2700K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5646.5 lumens
Efficiency: N/A
Efficacy: 95.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 59
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

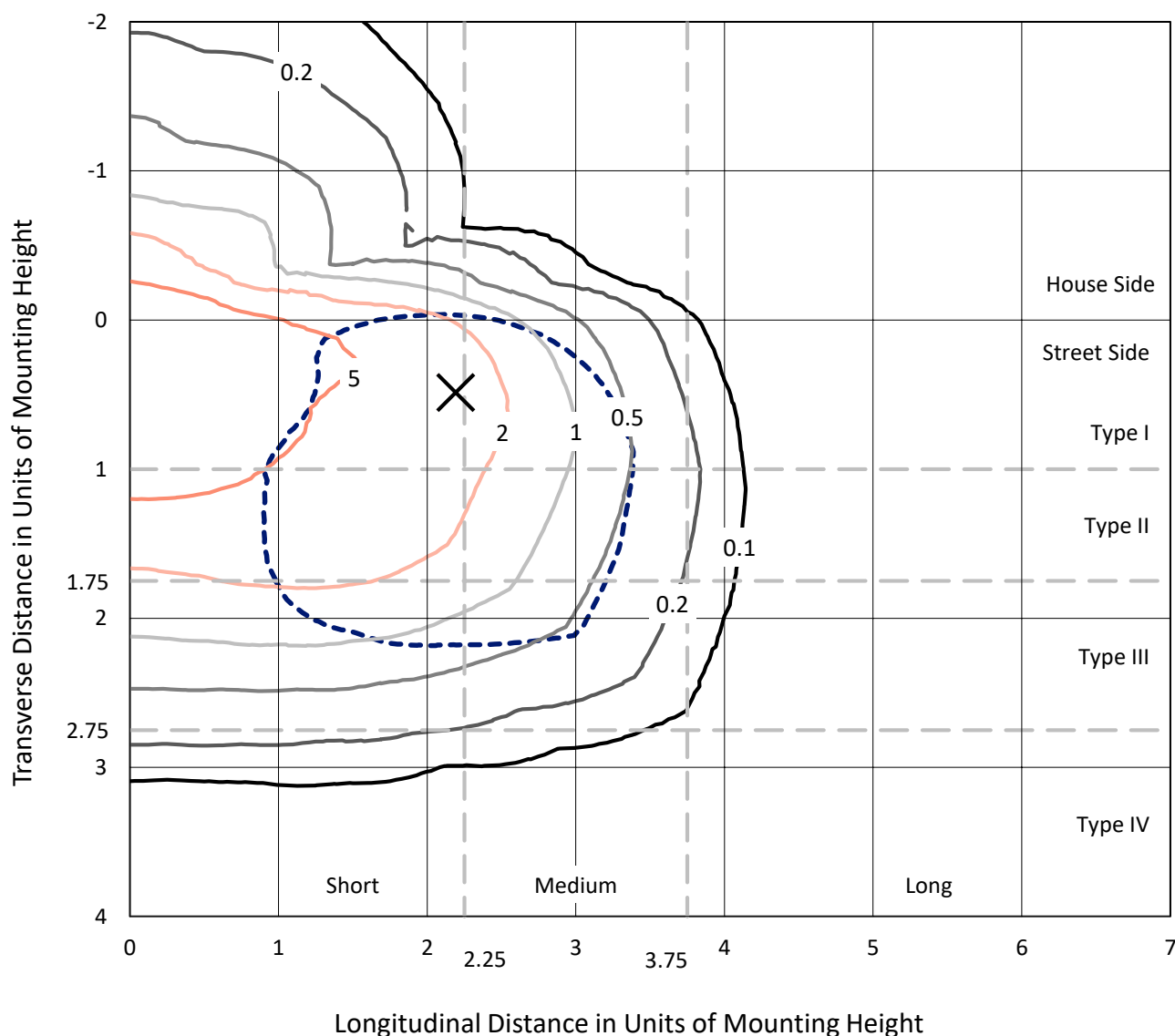


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

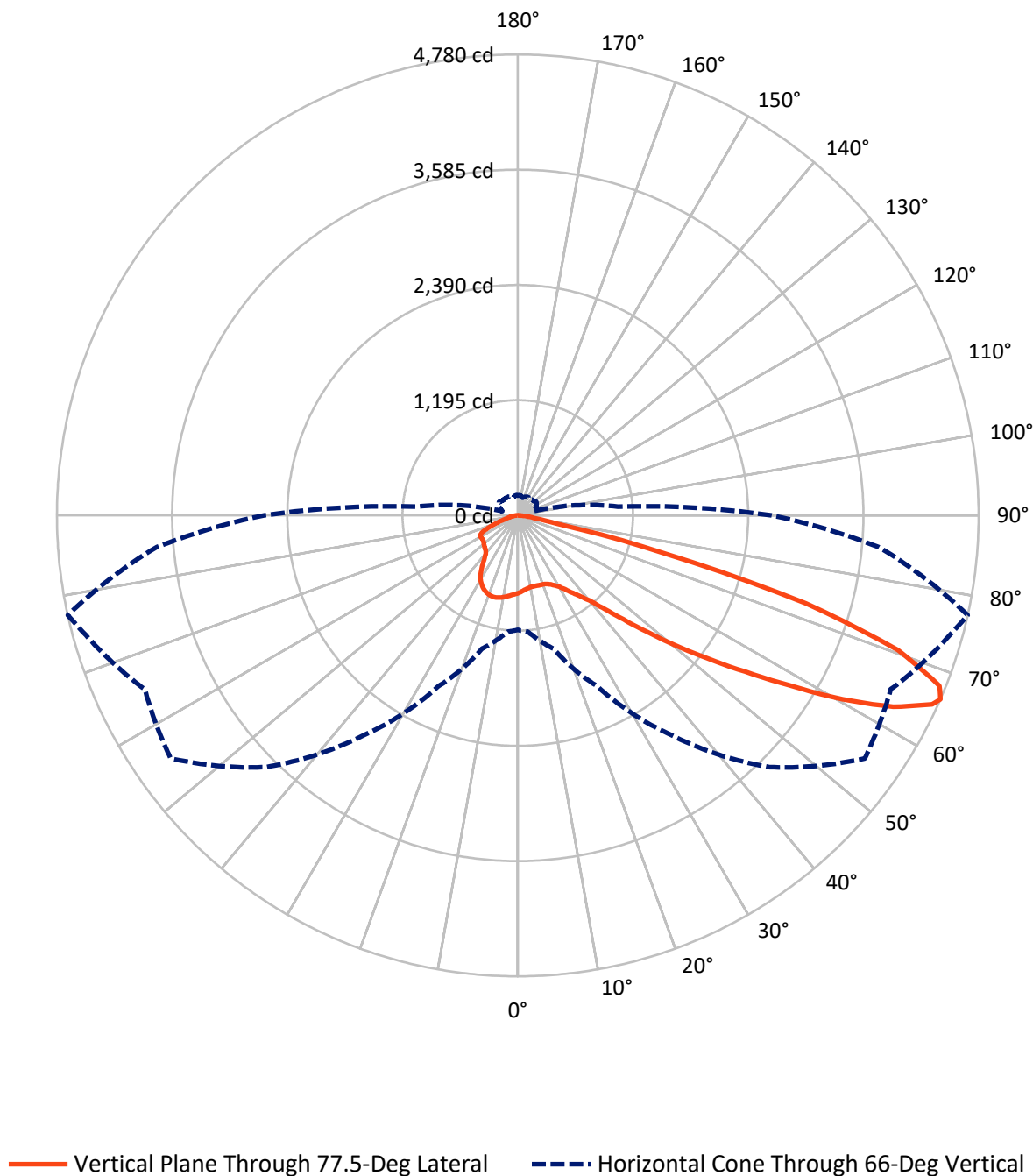


Based on 10 foot mounting height. Maximum calculated value = 9.9 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	964.7	0.0	964.7
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	4681.8	0.0	4681.8
	% Fixture	82.9	0.0	82.9
Total	Lumens	5646.5	0.0	5646.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.9	1.3
10°-20°	202.8	3.6
20°-30°	346.1	6.1
30°-40°	554.1	9.8
40°-50°	856.0	15.2
50°-60°	1214.1	21.5
60°-70°	1624.2	28.8
70°-80°	705.3	12.5
80°-90°	71.9	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°	5646.5	100.0
0°-180°	5646.5	100.0

Coefficient of Utilization



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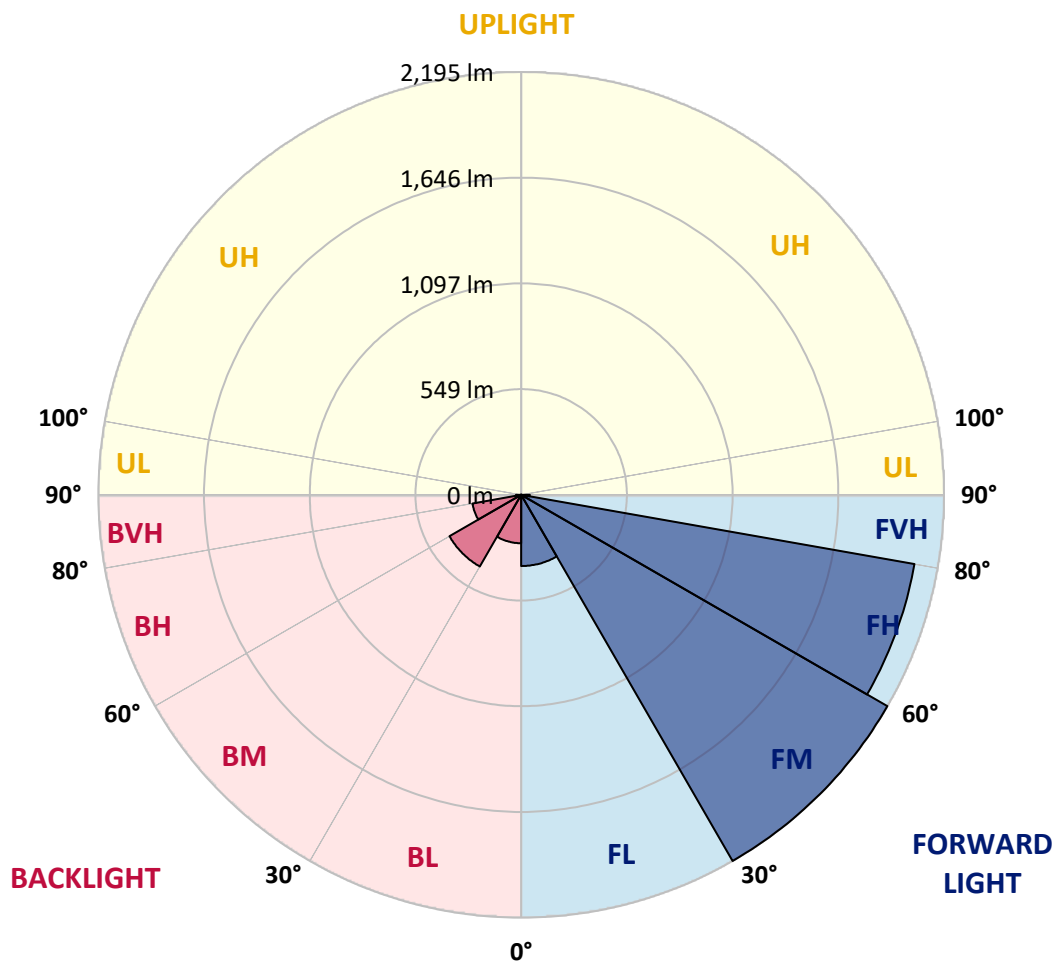
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	369.6	6.5			
FM	(30°-60°)	2194.5	38.9			
FH	(60°-80°)	2072.6	36.7			G2/5000
FVH	(80°-90°)	45.1	0.8			G1/100
BL	(0°-30°)	251.2	4.4	B1/500		
BM	(30°-60°)	429.7	7.6	B1/1000		
BH	(60°-80°)	256.9	4.5	B1/500		G1/500
BVH	(80°-90°)	26.8	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-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°	804.6	804.6	804.6	804.6	804.6	804.6	804.6	804.6	804.6	804.6	804.6
2.5°	711.7	716.6	720.6	724.4	731.8	744.1	758.2	769.7	786.2	789.4	798.2
5°	646.4	646.4	649.7	655.3	665.4	683.8	703.1	728.6	764.6	773.3	796.6
7.5°	614.7	615.0	616.9	621.6	630.4	647.3	668.2	698.4	747.3	761.5	801.5
10°	626.4	623.8	619.8	617.3	618.8	628.5	648.5	682.3	736.6	754.8	812.1
12.5°	692.1	687.1	673.1	654.8	637.1	629.9	641.6	674.4	732.1	753.1	826.3
15°	799.3	797.2	771.4	733.1	690.4	654.8	646.7	671.6	732.6	755.0	843.1
17.5°	933.8	930.9	896.7	841.3	771.6	701.9	664.6	673.9	734.5	758.2	859.4
20°	1069.6	1060.4	1023.7	957.6	868.1	766.3	694.2	680.0	736.9	761.8	876.4
22.5°	1170.9	1163.5	1130.3	1066.1	963.2	840.6	733.9	690.7	744.7	771.9	897.4
25°	1260.1	1260.6	1227.8	1165.6	1059.2	919.7	785.2	719.3	764.4	792.7	926.3
27.5°	1370.3	1363.8	1333.2	1271.6	1154.1	999.5	847.1	758.4	793.7	822.3	964.2
30°	1502.1	1497.6	1462.0	1392.2	1259.6	1085.1	917.8	804.2	831.7	861.2	1013.7
32.5°	1657.1	1654.9	1618.0	1528.1	1381.1	1185.9	1000.7	864.3	888.2	918.8	1085.1
35°	1839.0	1839.3	1795.8	1687.7	1514.4	1303.4	1094.9	942.1	957.0	989.0	1170.0
37.5°	1951.1	1964.7	1948.5	1838.2	1665.1	1434.6	1217.2	1045.0	1035.4	1067.7	1261.0
40°	1975.1	1991.6	2043.1	1987.1	1833.7	1579.1	1325.4	1144.0	1132.0	1171.5	1378.0
42.5°	1941.4	1964.5	2073.3	2112.8	2012.7	1757.4	1471.2	1291.0	1275.9	1329.0	1523.6
45°	1921.5	1938.5	2064.5	2178.1	2168.0	1958.8	1656.6	1475.6	1470.0	1539.7	1691.8
47.5°	1886.8	1902.3	2023.3	2193.3	2259.1	2143.4	1879.3	1701.3	1712.3	1803.4	1881.4
50°	1905.5	1911.9	1977.4	2154.7	2285.6	2278.7	2128.3	1962.7	2000.2	2114.2	2096.1
52.5°	1902.8	1919.3	1972.0	2091.2	2289.2	2362.3	2373.4	2254.3	2333.1	2463.8	2334.4
55°	1538.3	1568.7	1909.4	2075.2	2301.4	2444.1	2591.6	2561.7	2708.5	2860.8	2603.4
57.5°	1469.0	1488.2	1677.0	2108.7	2366.4	2600.5	2834.4	2900.1	3145.4	3322.4	2931.0
60°	1455.3	1479.1	1674.7	2149.9	2498.5	2855.3	3194.4	3309.5	3677.2	3870.8	3311.0
62.5°	1412.9	1438.5	1658.9	2144.4	2686.1	3207.7	3655.1	3744.9	4181.4	4369.9	3628.7
65°	1278.5	1302.5	1530.6	2058.2	2812.6	3583.9	4200.4	4144.2	4579.5	4721.1	3787.2
66°	1186.4	1209.8	1429.5	1957.0	2783.2	3690.5	4393.5	4267.6	4668.6	4779.6	3756.3
67.5°	1018.0	1036.5	1233.2	1729.9	2627.2	3720.4	4556.1	4360.5	4678.0	4717.2	3579.2
70°	643.2	648.5	801.5	1194.1	1988.7	3226.6	4308.7	4130.0	4292.2	4186.0	3000.6
72.5°	279.1	277.1	384.7	607.4	1125.8	2165.1	3485.3	3407.7	3366.9	3124.7	2100.4
75°	155.2	157.5	199.9	282.0	457.5	1063.5	2280.0	2181.9	1842.2	1571.9	952.5
77.5°	124.5	127.5	165.6	200.1	205.4	370.8	1066.8	868.1	522.6	419.4	264.7
80°	98.5	103.8	144.5	155.8	138.5	152.9	344.7	275.6	206.8	189.7	137.1
82.5°	78.0	81.7	124.1	117.9	96.8	102.9	165.2	160.8	134.4	122.4	79.2
85°	56.1	63.1	101.9	88.8	63.5	69.3	109.7	105.1	77.2	63.1	34.9
87.5°	22.9	29.9	72.0	59.0	35.6	32.2	54.6	51.6	36.6	26.7	17.3
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°	804.6	804.6	804.6	804.6	804.6	804.6	804.6	804.6	804.6	804.6	804.6
2.5°	803.9	810.2	818.5	823.6	826.3	828.1	831.0	830.8	831.7	831.9	832.9
5°	809.3	819.9	831.9	835.1	835.1	832.1	829.1	824.4	822.5	821.9	822.5
7.5°	823.0	834.7	845.1	841.4	833.4	821.7	806.5	793.2	785.9	783.6	783.1
10°	840.6	854.7	859.0	844.9	821.5	793.2	763.0	741.1	728.6	725.1	724.0
12.5°	862.1	875.4	869.5	839.6	796.1	750.4	708.9	673.9	647.8	639.6	639.0
15°	885.5	895.9	875.4	823.0	758.2	690.9	616.9	556.5	524.0	513.7	512.8
17.5°	907.4	912.7	871.9	794.2	702.5	593.6	495.1	448.8	437.6	440.2	440.8
20°	926.1	926.1	860.1	752.9	614.7	465.3	403.1	402.4	410.3	418.3	420.0
22.5°	946.5	934.2	839.6	694.5	490.4	380.7	371.7	379.2	388.2	397.1	398.3
25°	972.0	941.0	811.1	605.8	385.6	345.8	349.3	355.4	360.0	365.5	366.2
27.5°	1000.3	949.5	773.4	483.9	334.6	323.8	326.5	328.7	328.2	330.2	330.8
30°	1034.0	959.4	722.0	378.4	313.5	305.2	300.5	298.5	298.5	302.0	303.4
32.5°	1079.5	974.0	648.0	324.2	303.4	291.9	276.4	269.4	272.1	283.9	286.5
35°	1129.3	989.8	548.0	305.8	301.2	285.8	261.8	248.9	249.2	260.1	263.7
37.5°	1183.7	1009.9	438.4	302.3	306.1	286.0	254.0	236.3	229.2	229.2	230.5
40°	1253.3	1030.4	354.8	304.6	316.2	289.3	250.0	226.6	206.3	206.8	207.9
42.5°	1344.1	1048.0	310.1	309.7	328.4	293.4	249.6	213.4	195.8	207.9	218.7
45°	1445.0	1056.8	290.2	314.2	338.3	296.1	245.4	211.3	197.2	232.9	253.7
47.5°	1561.1	1051.6	279.4	315.8	340.6	296.1	240.7	216.4	206.5	269.8	294.0
50°	1688.3	1037.1	268.7	312.7	339.9	295.6	245.1	221.4	209.9	276.0	292.9
52.5°	1837.9	1024.7	257.5	305.8	334.3	292.7	250.4	219.2	199.1	251.0	262.8
55°	2008.7	1028.2	244.9	295.9	325.5	287.1	248.7	210.7	187.6	221.2	228.3
57.5°	2226.9	1069.6	230.0	283.3	313.5	277.8	242.0	206.8	184.2	200.6	205.0
60°	2470.5	1141.6	211.3	270.7	298.5	262.8	237.0	208.6	185.7	199.1	201.2
62.5°	2649.2	1183.4	195.3	252.3	278.3	246.2	230.5	211.0	189.9	204.6	204.1
65°	2697.8	1114.6	175.3	225.5	250.7	228.9	222.5	213.6	191.8	209.1	206.8
66°	2629.8	1040.4	166.5	212.9	237.0	220.4	218.5	213.4	191.0	209.8	205.7
67.5°	2464.6	888.5	151.3	194.6	214.8	207.6	212.1	211.0	189.0	209.1	203.6
70°	2010.0	606.1	129.4	162.0	178.8	182.7	199.9	202.5	181.9	199.9	187.6
72.5°	1404.4	369.3	114.4	125.7	144.5	155.8	183.1	190.8	172.7	174.5	162.8
75°	678.7	196.1	103.8	97.3	112.3	130.3	162.8	174.7	157.9	146.0	141.7
77.5°	211.6	119.8	88.0	78.4	88.0	105.1	136.1	153.2	140.7	122.2	120.6
80°	113.6	88.0	67.7	63.1	69.6	82.5	107.0	127.7	120.8	109.7	97.9
82.5°	75.0	57.1	50.1	48.8	53.1	63.1	79.5	105.9	105.9	94.0	68.4
85°	38.6	34.9	34.5	34.5	37.1	42.0	54.2	81.7	87.0	49.6	41.1
87.5°	19.3	20.0	18.7	19.5	20.8	20.5	26.0	41.1	49.0	30.2	25.2
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)