

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: P269831

Luminaire Tested: **GAP-AF-01-LED-U-T3R-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269831
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-7027-800
Description: GALLEON PEDESTRIAN LUMINAIRE
(1) 70 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4561.9 lumens
Efficiency: N/A
Efficacy: 103.7 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 - G1

Input Watts (W): 44
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



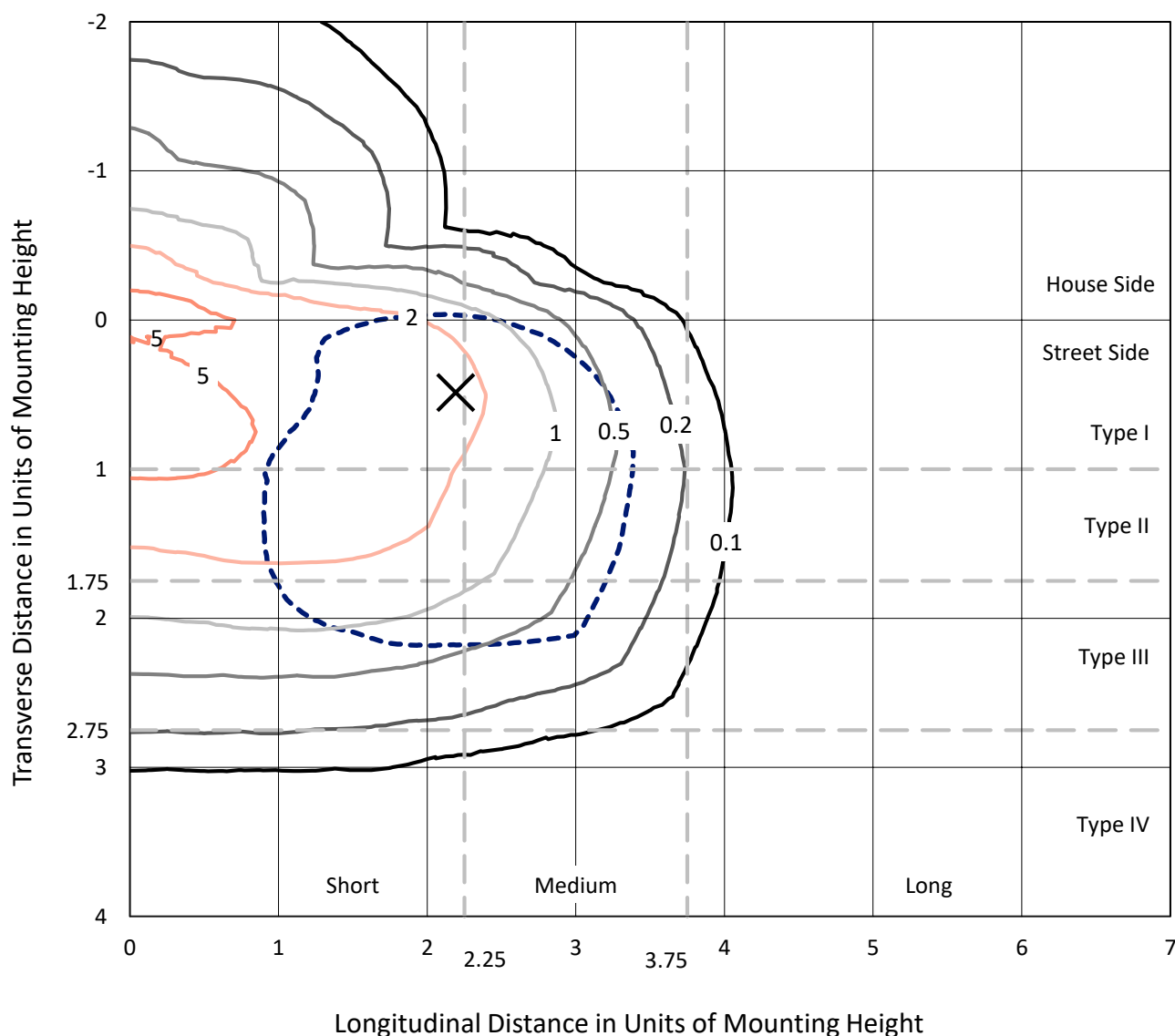
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

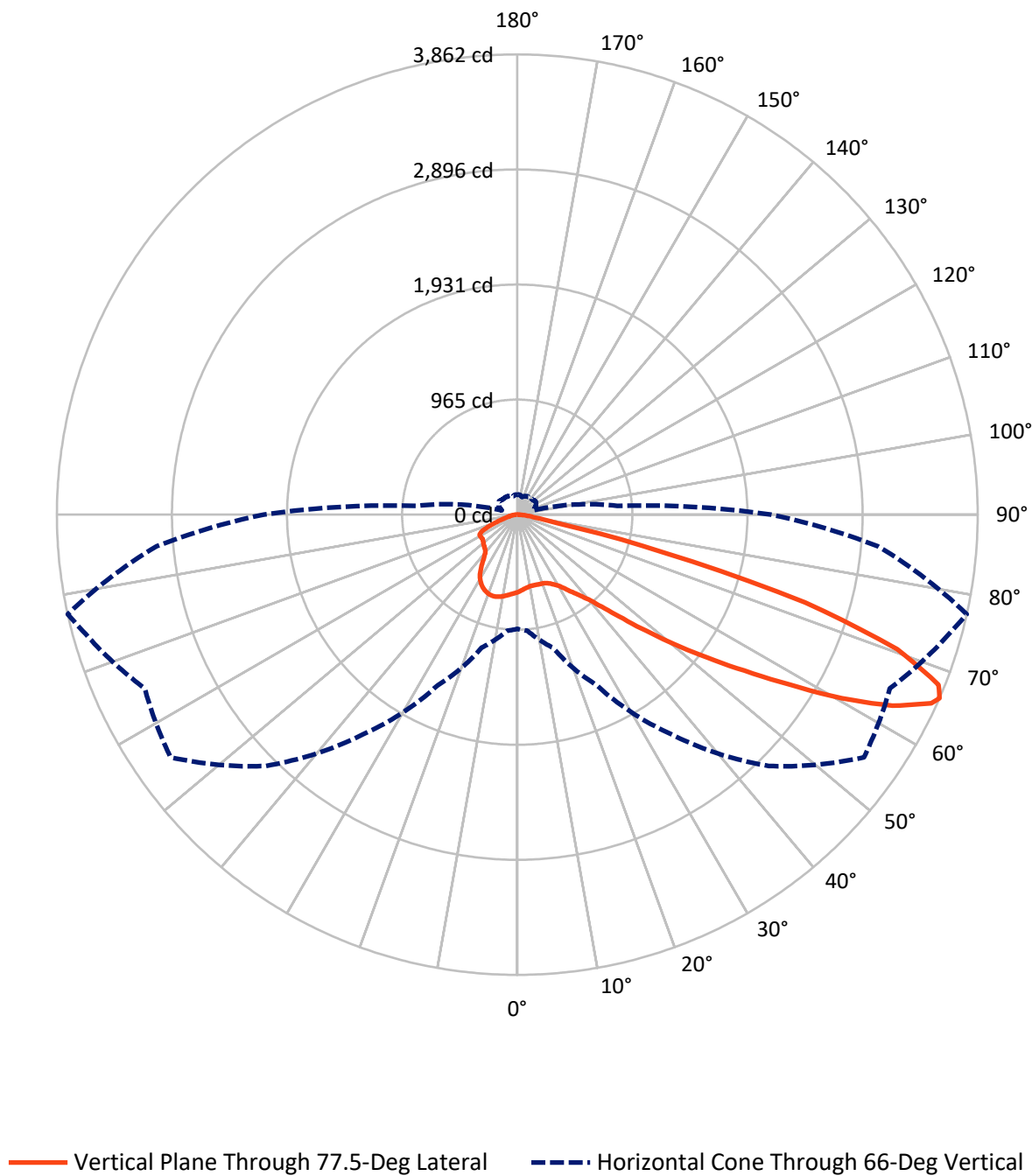


Based on 10 foot mounting height. Maximum calculated value = 8 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	779.4	0.0	779.4
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	3782.6	0.0	3782.6
	% Fixture	82.9	0.0	82.9
Total	Lumens	4561.9	0.0	4561.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.1	1.3
10°-20°	163.9	3.6
20°-30°	279.6	6.1
30°-40°	447.7	9.8
40°-50°	691.6	15.2
50°-60°	980.9	21.5
60°-70°	1312.2	28.8
70°-80°	569.9	12.5
80°-90°	58.1	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°	4561.9	100.0
0°-180°	4561.9	100.0

Coefficient of Utilization



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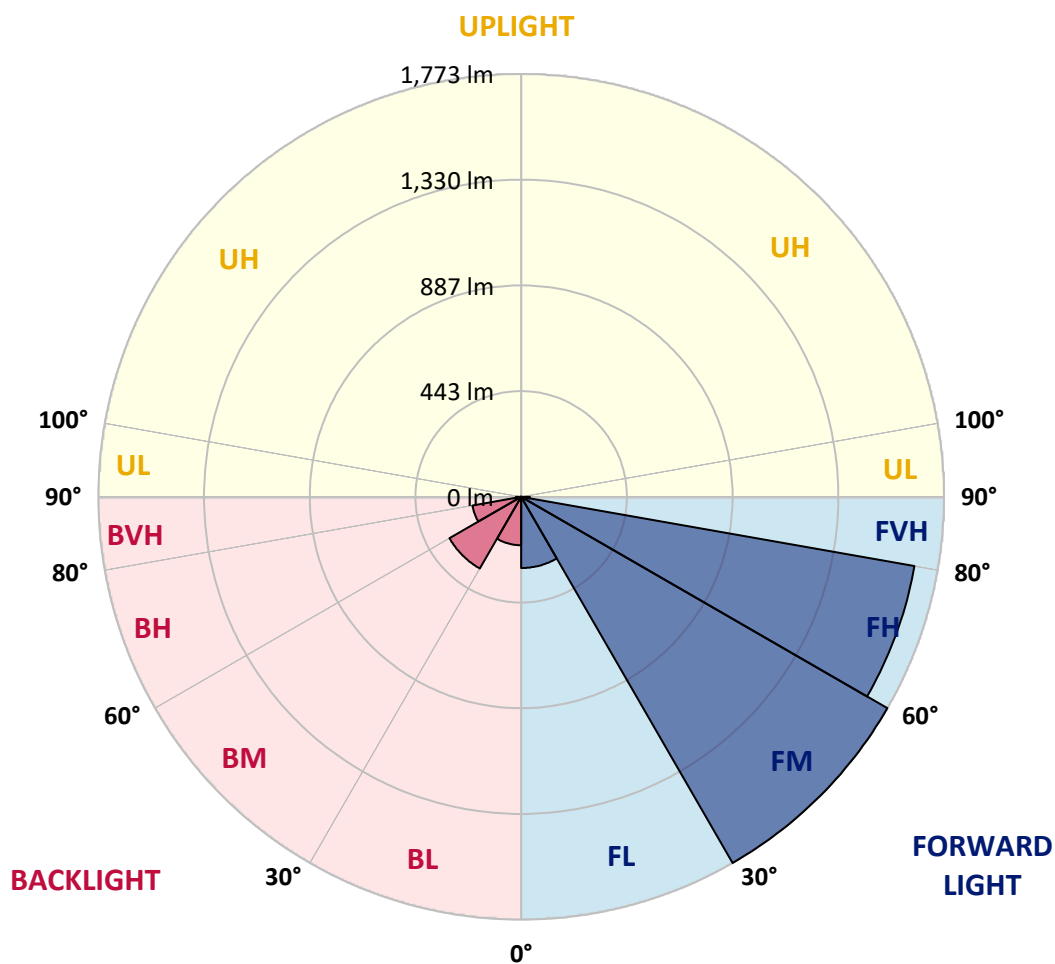
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	298.6	6.5			
FM	(30°-60°)	1773.0	38.9			
FH	(60°-80°)	1674.5	36.7			G1/1800
FVH	(80°-90°)	36.5	0.8			G1/100
BL	(0°-30°)	203.0	4.4	B1/500		
BM	(30°-60°)	347.2	7.6	B1/1000		
BH	(60°-80°)	207.6	4.5	B1/500		G1/500
BVH	(80°-90°)	21.7	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-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	650.2	650.2	650.2	650.2	650.2	650.2	650.2	650.2	650.2	650.2	650.2
2.5°	575.0	579.0	582.2	585.2	591.3	601.1	612.6	621.8	635.2	637.7	645.0
5°	522.3	522.3	524.9	529.5	537.5	552.5	568.0	588.7	617.8	624.6	643.6
7.5°	496.7	496.9	498.4	502.2	509.3	523.0	539.9	564.3	603.8	615.2	647.5
10°	506.1	503.9	500.7	498.7	499.8	507.8	524.0	551.2	595.1	609.8	656.1
12.5°	559.1	555.1	543.8	528.9	514.6	508.9	518.4	544.9	591.4	608.5	667.6
15°	645.8	644.1	623.2	592.3	557.8	528.9	522.5	542.5	592.0	609.9	681.2
17.5°	754.4	752.1	724.5	679.6	623.3	567.1	536.9	544.6	593.4	612.6	694.3
20°	864.1	856.9	827.1	773.6	701.3	619.0	560.8	549.5	595.3	615.3	708.0
22.5°	946.0	939.9	913.2	861.4	778.1	679.2	593.1	558.0	601.5	623.6	725.1
25°	1018.0	1018.5	992.0	941.8	855.7	743.0	634.4	581.2	617.6	640.4	748.4
27.5°	1107.0	1102.0	1077.1	1027.3	932.5	807.4	684.4	612.9	641.3	664.3	779.0
30°	1213.5	1209.8	1181.2	1124.8	1017.6	876.7	741.6	649.7	671.8	695.7	819.1
32.5°	1338.7	1337.0	1307.4	1234.7	1116.0	958.1	808.6	698.4	717.6	742.4	876.7
35°	1485.7	1485.9	1450.9	1363.5	1223.4	1053.0	884.7	761.1	773.3	799.0	945.1
37.5°	1576.3	1587.3	1574.2	1485.2	1345.2	1159.1	983.4	844.2	836.5	862.6	1018.7
40°	1595.7	1609.0	1650.6	1605.5	1481.5	1275.9	1070.9	924.3	914.6	946.5	1113.3
42.5°	1568.5	1587.0	1675.0	1706.9	1626.1	1419.9	1188.5	1043.0	1030.7	1073.7	1230.9
45°	1552.5	1566.1	1668.0	1759.7	1751.5	1582.5	1338.4	1192.2	1187.6	1244.0	1366.9
47.5°	1524.3	1536.9	1634.7	1772.0	1825.3	1731.8	1518.3	1374.5	1383.4	1457.1	1520.0
50°	1539.4	1544.6	1597.6	1740.7	1846.6	1840.9	1719.4	1585.8	1616.1	1707.9	1693.6
52.5°	1537.3	1550.7	1593.4	1689.5	1849.4	1908.4	1917.5	1821.5	1885.0	1990.6	1886.0
55°	1242.8	1267.4	1542.7	1676.5	1859.3	1974.7	2093.9	2069.8	2188.2	2311.2	2103.3
57.5°	1186.8	1202.3	1355.0	1703.6	1912.0	2101.0	2290.0	2343.0	2541.3	2684.2	2368.0
60°	1175.8	1195.0	1352.9	1737.0	2018.6	2306.8	2580.8	2673.8	2971.0	3127.4	2675.0
62.5°	1141.6	1162.2	1340.4	1732.7	2170.1	2591.5	2953.0	3025.8	3378.3	3530.5	2931.7
65°	1033.0	1052.4	1236.5	1662.9	2272.4	2895.4	3393.5	3348.2	3699.8	3814.4	3059.7
66°	958.5	977.5	1155.0	1581.0	2248.5	2981.7	3549.7	3448.0	3772.0	3861.5	3034.7
67.5°	822.6	837.4	996.3	1397.7	2122.5	3005.8	3681.0	3523.0	3779.3	3811.1	2891.9
70°	519.7	524.0	647.5	964.8	1606.7	2606.8	3481.1	3336.8	3467.7	3381.9	2424.3
72.5°	225.5	223.9	310.9	490.8	909.7	1749.2	2815.9	2753.2	2720.2	2524.4	1697.0
75°	125.5	127.2	161.4	227.8	369.7	859.1	1842.1	1762.7	1488.3	1270.1	769.5
77.5°	100.7	103.0	133.8	161.7	165.9	299.7	862.0	701.3	422.3	338.8	213.8
80°	79.5	83.8	116.8	125.9	111.8	123.4	278.5	222.7	167.1	153.3	110.9
82.5°	62.9	65.9	100.3	95.3	78.2	83.3	133.4	130.0	108.7	99.0	64.0
85°	45.3	50.8	82.4	71.8	51.4	56.1	88.7	84.9	62.3	50.8	28.2
87.5°	18.5	24.2	58.2	47.6	28.7	26.1	44.1	41.6	29.6	21.6	14.1
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°	650.2	650.2	650.2	650.2	650.2	650.2	650.2	650.2	650.2	650.2	650.2
2.5°	649.5	654.7	661.3	665.5	667.6	669.1	671.5	671.3	671.8	672.1	672.9
5°	653.7	662.4	672.1	674.6	674.6	672.3	670.0	666.1	664.6	664.0	664.6
7.5°	664.9	674.4	682.8	679.8	673.4	663.8	651.6	640.9	635.0	633.0	632.6
10°	679.2	690.5	694.1	682.6	663.7	640.9	616.4	598.8	588.7	585.9	584.9
12.5°	696.5	707.2	702.5	678.3	643.1	606.4	572.7	544.6	523.4	516.6	516.3
15°	715.4	723.9	707.2	664.9	612.6	558.2	498.4	449.6	423.3	414.9	414.3
17.5°	733.0	737.4	704.5	641.7	567.5	479.5	400.0	362.6	353.6	355.6	356.1
20°	748.2	748.2	694.8	608.3	496.7	375.9	325.6	325.0	331.6	338.0	339.3
22.5°	764.7	754.8	678.3	561.1	396.2	307.6	300.3	306.3	313.6	320.8	321.9
25°	785.3	760.2	655.3	489.4	311.4	279.4	282.2	287.1	290.8	295.4	295.9
27.5°	808.0	767.2	625.0	391.0	270.3	261.6	263.8	265.5	265.1	266.8	267.2
30°	835.5	775.1	583.3	305.7	253.2	246.6	242.7	241.3	241.3	244.0	245.1
32.5°	872.2	786.9	523.5	261.9	245.1	235.9	223.3	217.7	219.8	229.3	231.6
35°	912.4	799.8	442.8	247.0	243.4	230.9	211.5	201.1	201.3	210.2	213.0
37.5°	956.3	815.8	354.1	244.2	247.3	231.0	205.3	191.0	185.2	185.2	186.2
40°	1012.7	832.5	286.6	246.1	255.4	233.6	201.9	183.1	166.6	167.1	168.0
42.5°	1086.0	846.7	250.4	250.3	265.3	237.2	201.8	172.5	158.2	168.0	176.7
45°	1167.3	853.7	234.5	254.0	273.4	239.3	198.3	170.7	159.3	188.1	205.1
47.5°	1261.2	849.6	225.7	255.2	275.2	239.3	194.5	174.8	166.8	217.8	237.5
50°	1363.9	837.8	217.1	252.7	274.6	238.8	198.0	178.9	169.6	223.0	236.7
52.5°	1484.9	827.9	208.0	247.0	270.1	236.4	202.4	177.1	160.7	202.8	212.3
55°	1622.9	830.8	197.8	239.0	262.9	231.9	201.0	170.3	151.5	178.8	184.5
57.5°	1799.1	864.1	185.8	228.9	253.2	224.3	195.6	167.1	148.7	162.1	165.6
60°	1995.9	922.3	170.7	218.7	241.3	212.3	191.3	168.5	150.0	160.7	162.6
62.5°	2140.4	956.2	157.8	203.9	224.8	199.0	186.2	170.5	153.5	165.3	164.8
65°	2179.6	900.6	141.7	182.1	202.6	185.0	179.8	172.7	155.0	169.1	167.1
66°	2124.8	840.6	134.4	172.0	191.3	178.0	176.5	172.5	154.2	169.4	166.1
67.5°	1991.3	717.7	122.2	157.2	173.6	167.8	171.3	170.5	152.6	169.1	164.5
70°	1624.0	489.8	104.6	130.9	144.4	147.6	161.4	163.6	147.1	161.4	151.5
72.5°	1134.6	298.2	92.4	101.5	116.8	125.9	148.0	154.1	139.4	140.9	131.5
75°	548.3	158.5	83.8	78.7	90.8	105.2	131.5	141.2	127.6	117.9	114.4
77.5°	170.9	96.7	71.1	63.4	71.1	84.9	110.0	123.7	113.5	98.8	97.5
80°	91.8	71.1	54.7	50.8	56.2	66.7	86.4	103.2	97.6	88.7	79.1
82.5°	60.5	46.2	40.6	39.4	42.8	50.8	64.1	85.6	85.6	75.8	55.2
85°	31.3	28.2	27.8	27.8	30.0	33.9	43.7	65.9	70.2	40.1	33.1
87.5°	15.5	16.2	15.1	15.7	16.8	16.6	20.9	33.1	39.6	24.3	20.2
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)