

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: P200694

Luminaire Tested: **GAP-AF-02-LED-U-T4W-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200694
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24147)
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-T4W-8030-800
Description: GALLEON PEDESTRIAN LUMINAIRE
(2) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8132 lumens
Efficiency: N/A
Efficacy: 94.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 86
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

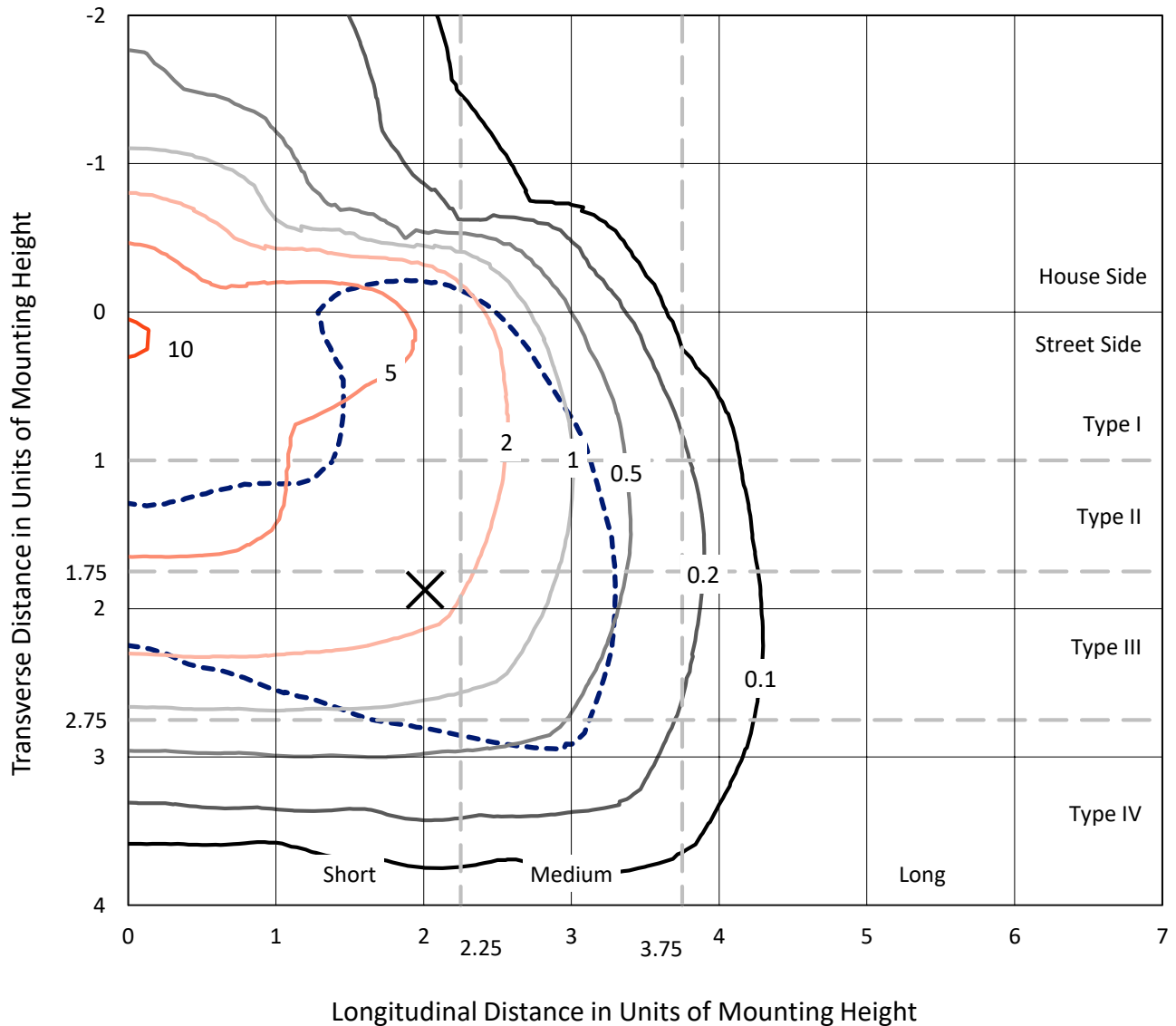


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

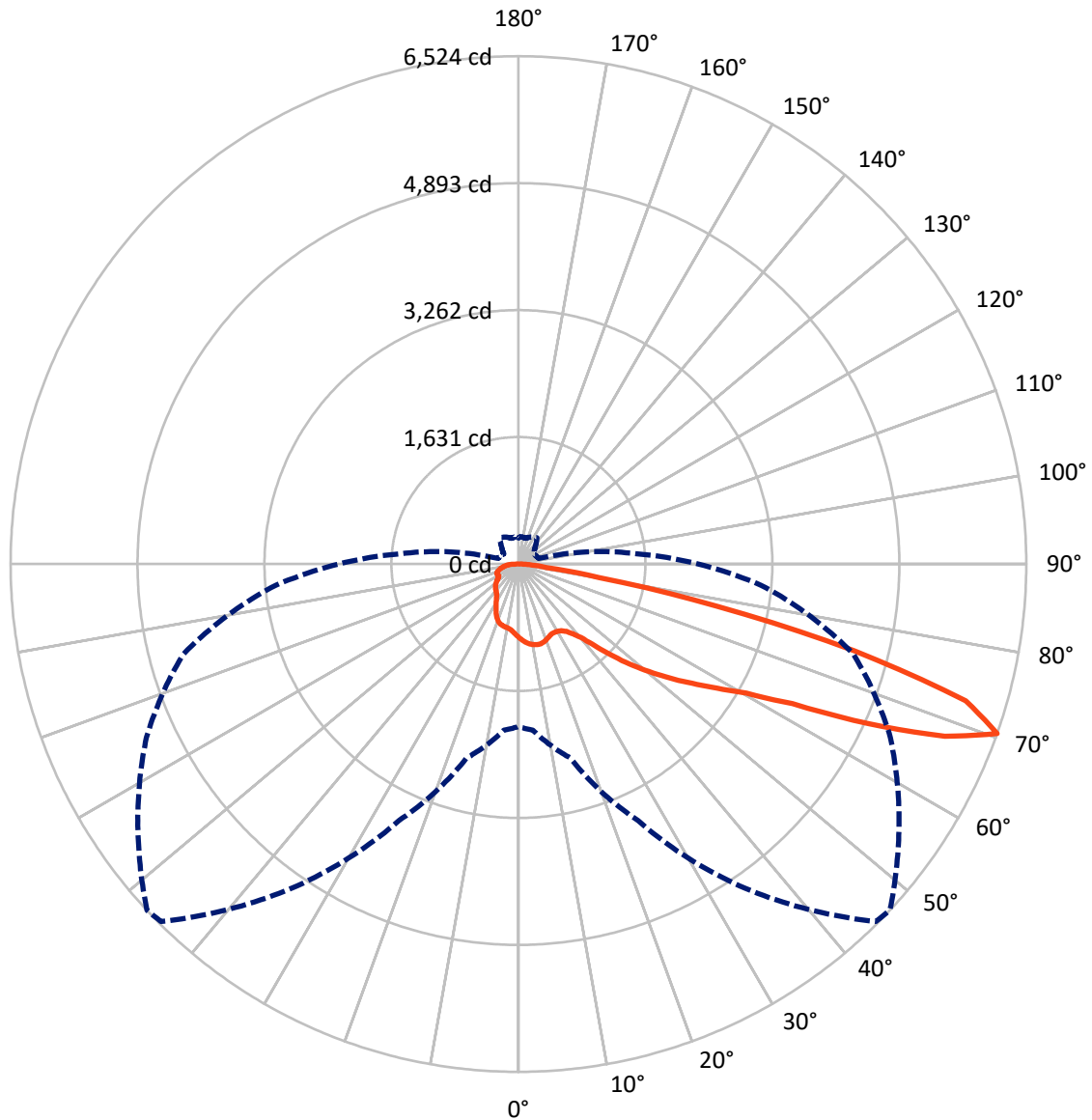


Based on 10 foot mounting height. Maximum calculated value = 10.9 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1696.5	0.0	1696.5
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	6435.5	0.0	6435.5
	% Fixture	79.1	0.0	79.1
Total	Lumens	8132.0	0.0	8132.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.4	1.1
10°-20°	265.2	3.3
20°-30°	391.7	4.8
30°-40°	569.3	7.0
40°-50°	1024.6	12.6
50°-60°	1774.9	21.8
60°-70°	2533.3	31.2
70°-80°	1300.5	16.0
80°-90°	182.1	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°	8132.0	100.0
0°-180°	8132.0	100.0

Coefficient of Utilization



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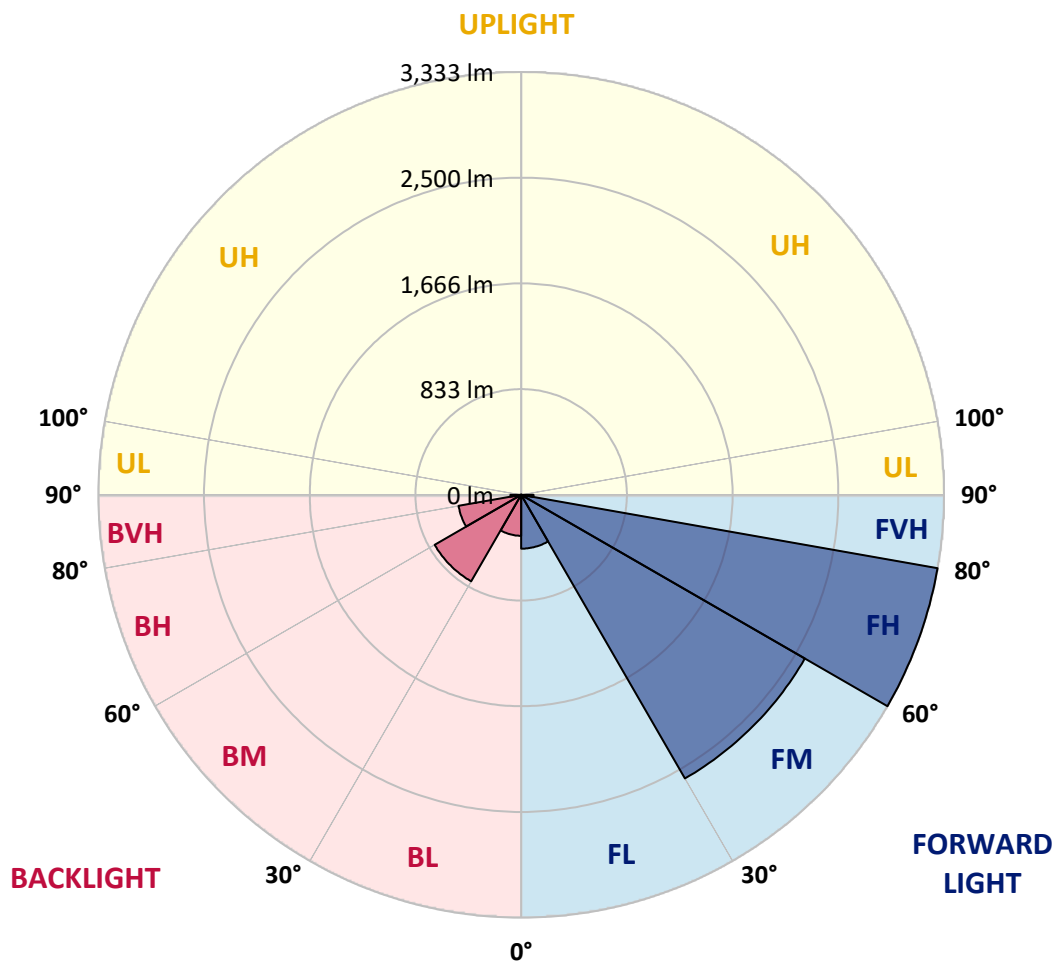
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	424.3	5.2			
FM	(30°-60°)	2581.3	31.7			
FH	(60°-80°)	3332.7	41.0			G2/5000
FVH	(80°-90°)	97.2	1.2			G1/100
BL	(0°-30°)	323.0	4.0	B1/500		
BM	(30°-60°)	787.5	9.7	B1/1000		
BH	(60°-80°)	501.1	6.2	B2/1000		G2/1000
BVH	(80°-90°)	84.9	1.0			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	943.6	943.6	943.6	943.6	943.6	943.6	943.6	943.6	943.6	943.6	943.6
2.5°	999.0	997.0	996.2	994.6	992.6	982.7	980.8	973.6	963.7	953.5	942.8
5°	1064.6	1064.2	1059.9	1052.0	1039.3	1017.5	1012.4	995.0	971.7	949.1	926.6
7.5°	1122.4	1118.8	1110.5	1094.7	1072.5	1042.9	1035.7	1011.6	979.6	948.7	918.2
10°	1164.7	1162.7	1144.5	1122.8	1093.9	1061.1	1052.8	1025.9	990.6	951.5	913.5
12.5°	1188.9	1184.9	1163.9	1137.8	1103.4	1071.4	1063.0	1035.7	996.2	951.5	906.8
15°	1187.3	1184.5	1163.5	1135.0	1100.2	1072.1	1064.6	1037.3	995.0	947.5	898.1
17.5°	1155.6	1156.8	1139.0	1110.9	1082.4	1061.1	1054.3	1029.0	987.1	939.6	887.8
20°	1100.2	1105.8	1093.9	1069.0	1053.2	1038.5	1034.2	1012.8	974.8	928.1	876.7
22.5°	1044.8	1050.0	1045.2	1024.3	1021.9	1013.2	1010.8	995.4	964.1	921.0	870.0
25°	1004.1	1008.8	1008.1	989.9	997.0	996.6	994.6	987.1	961.8	921.0	871.2
27.5°	993.0	994.6	993.0	976.4	986.3	994.2	992.6	991.4	968.9	932.5	886.2
30°	1031.0	1028.6	1016.4	982.7	991.8	1002.9	1001.3	1002.1	990.2	962.6	919.8
32.5°	1182.5	1171.8	1133.1	1038.5	1014.4	1020.3	1021.1	1034.2	1036.1	1008.8	972.1
35°	1409.2	1397.3	1347.1	1188.1	1084.4	1063.8	1063.8	1083.6	1095.5	1075.3	1053.2
37.5°	1649.4	1636.3	1609.4	1395.4	1231.6	1139.4	1137.4	1151.3	1168.3	1173.0	1178.6
40°	1922.3	1908.5	1916.0	1628.0	1436.9	1270.4	1242.3	1232.4	1278.3	1308.7	1353.0
42.5°	2221.0	2214.7	2217.5	1887.1	1670.7	1466.2	1426.2	1375.2	1430.6	1484.8	1577.8
45°	2497.6	2503.1	2500.3	2164.5	1931.0	1705.1	1662.8	1563.9	1618.1	1711.1	1862.6
47.5°	2739.7	2716.8	2752.4	2467.5	2222.6	1972.6	1920.4	1787.8	1842.8	1957.6	2213.9
50°	3033.7	3030.5	2978.3	2871.8	2575.1	2241.2	2172.8	2019.3	2104.7	2264.2	2656.6
52.5°	3342.6	3285.3	3237.4	3186.4	2949.0	2516.6	2432.7	2249.9	2412.5	2613.1	3196.3
55°	3405.9	3380.2	3439.6	3525.4	3309.4	2802.6	2704.9	2539.1	2759.1	3011.9	3818.6
57.5°	3541.2	3540.8	3663.5	3816.6	3680.5	3106.1	3007.5	2888.5	3148.8	3468.8	4479.3
60°	3632.6	3658.3	3886.2	4183.3	4044.9	3456.6	3366.0	3291.6	3591.9	3979.6	5094.9
62.5°	3680.5	3715.3	4026.3	4332.1	4560.0	4040.1	3949.5	3842.3	4178.2	4539.8	5454.9
65°	3481.5	3549.9	4004.5	4460.7	5011.0	4986.1	4945.3	4757.0	4911.3	4982.5	5324.7
67.5°	2930.8	3000.8	3530.2	4340.8	5333.0	5898.4	5907.1	5585.4	5362.3	5020.5	4476.9
70°	2088.1	2143.1	2581.1	3639.4	5087.7	6494.6	6524.2	5967.2	5272.5	4452.4	3127.8
72.5°	991.4	1025.1	1439.7	2368.6	4037.4	5950.6	6008.0	5479.8	4483.2	3296.3	1706.3
75°	364.4	374.7	486.6	1007.7	2341.7	4388.3	4455.9	3928.2	2971.9	1641.1	650.0
77.5°	218.4	225.1	273.0	425.3	921.0	2508.3	2608.4	2136.4	1298.8	610.8	319.7
80°	152.7	157.5	195.8	264.7	435.2	955.8	1044.8	872.0	517.5	386.5	232.6
82.5°	103.3	105.6	137.7	178.8	289.2	341.4	368.3	387.7	348.9	287.6	147.6
85°	67.7	70.0	93.4	117.9	184.0	176.4	180.4	228.3	254.8	195.4	81.9
87.5°	38.8	40.4	56.2	62.9	90.2	74.8	75.6	120.3	163.0	131.7	49.8
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°	943.6	943.6	943.6	943.6	943.6	943.6	943.6	943.6	943.6	943.6	943.6
2.5°	940.0	934.9	923.4	916.3	909.5	908.0	905.2	904.8	904.4	904.4	903.2
5°	919.0	910.3	892.5	882.6	874.3	873.5	873.1	875.1	875.9	876.7	875.5
7.5°	905.6	893.7	871.6	857.3	847.4	845.1	849.0	858.1	864.0	866.4	865.2
10°	897.3	882.6	856.9	841.5	833.2	832.0	837.1	847.8	860.1	864.8	864.4
12.5°	887.8	871.2	843.9	827.6	822.9	825.3	832.0	841.9	854.5	862.1	862.5
15°	878.3	858.9	830.8	816.6	814.6	817.8	824.1	831.6	841.5	849.0	849.8
17.5°	866.8	846.6	818.5	803.9	802.3	803.9	804.3	808.3	814.6	821.7	823.7
20°	854.5	834.0	804.7	790.1	782.9	776.6	769.5	770.3	772.3	779.4	781.0
22.5°	845.8	825.3	794.0	773.8	754.9	735.9	721.6	719.6	720.4	726.4	728.3
25°	846.6	824.9	791.2	756.4	714.9	684.4	665.4	662.3	661.9	666.2	669.0
27.5°	862.1	840.3	801.5	738.6	671.4	626.3	606.1	603.7	600.6	601.7	604.9
30°	896.5	876.3	826.5	720.4	624.3	569.3	548.3	546.0	541.6	539.6	542.0
32.5°	952.7	936.0	862.9	703.0	577.2	520.6	499.3	494.1	491.4	489.0	491.0
35°	1046.0	1038.9	911.5	684.0	535.7	483.1	463.7	455.8	451.8	456.2	459.3
37.5°	1192.4	1196.4	975.2	654.4	503.6	458.1	441.9	432.8	426.9	430.4	434.0
40°	1399.7	1402.5	1045.6	612.4	475.9	443.5	426.1	417.8	409.5	403.1	402.7
42.5°	1671.9	1643.8	1114.9	566.9	443.9	434.4	415.0	404.7	392.1	374.7	371.1
45°	1994.7	1896.2	1167.5	514.7	407.9	423.3	402.7	388.5	368.7	349.7	347.8
47.5°	2366.6	2167.2	1193.2	460.5	374.3	407.1	387.7	365.2	340.2	330.7	329.6
50°	2820.8	2488.9	1205.5	407.9	345.0	385.7	366.0	339.4	318.5	316.5	315.3
52.5°	3337.9	2875.8	1209.4	364.8	320.9	358.0	348.1	322.4	305.8	307.4	307.4
55°	3879.1	3275.4	1155.6	333.5	298.7	329.6	336.3	315.7	301.9	308.2	310.6
57.5°	4376.0	3629.5	986.3	309.4	277.7	307.8	331.9	322.0	312.5	338.3	339.8
60°	4757.4	3838.7	736.7	287.6	262.3	300.3	343.4	346.2	348.5	409.9	418.2
62.5°	4837.3	3769.1	506.4	270.6	255.2	306.6	364.4	364.8	362.0	404.7	409.9
65°	4470.6	3328.8	368.3	261.1	249.2	318.1	382.2	373.9	355.7	388.1	378.6
67.5°	3550.3	2507.9	306.6	254.0	240.5	317.3	401.2	382.2	352.1	380.2	364.8
70°	2304.5	1516.4	273.0	248.1	230.3	302.3	412.2	381.4	341.8	353.7	335.5
72.5°	1124.4	678.1	250.4	239.4	219.6	281.3	411.8	374.3	331.1	330.3	320.5
75°	439.9	310.6	229.9	226.3	201.4	257.6	400.8	364.0	318.5	305.8	302.3
77.5°	257.6	221.5	203.7	206.9	179.6	233.8	384.5	346.2	301.1	286.0	282.1
80°	187.5	165.8	173.7	178.8	153.5	210.1	362.8	324.4	281.7	289.2	283.7
82.5°	120.3	106.8	140.8	146.0	127.8	185.9	339.1	301.5	254.4	231.0	225.5
85°	61.3	67.7	104.8	111.2	98.5	152.7	310.2	271.0	223.5	192.3	195.4
87.5°	34.4	46.3	66.9	74.8	69.6	117.5	251.6	223.5	182.4	148.4	130.6
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)