

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: P200696

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200696
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
Description: GALLEON PEDESTRIAN LUMINAIRE
(2) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10066 lumens
Efficiency: N/A
Efficacy: 89.1 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

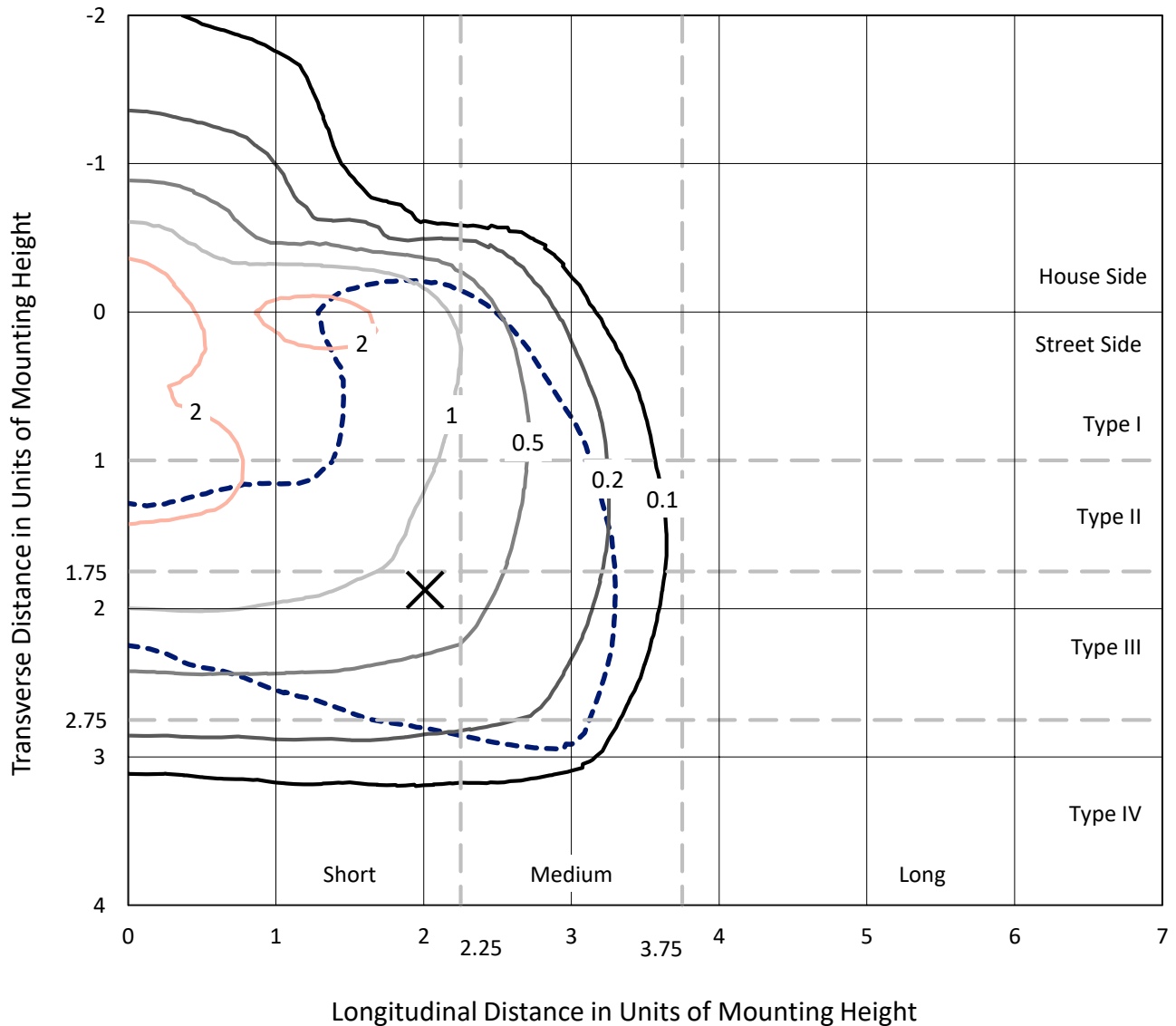
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

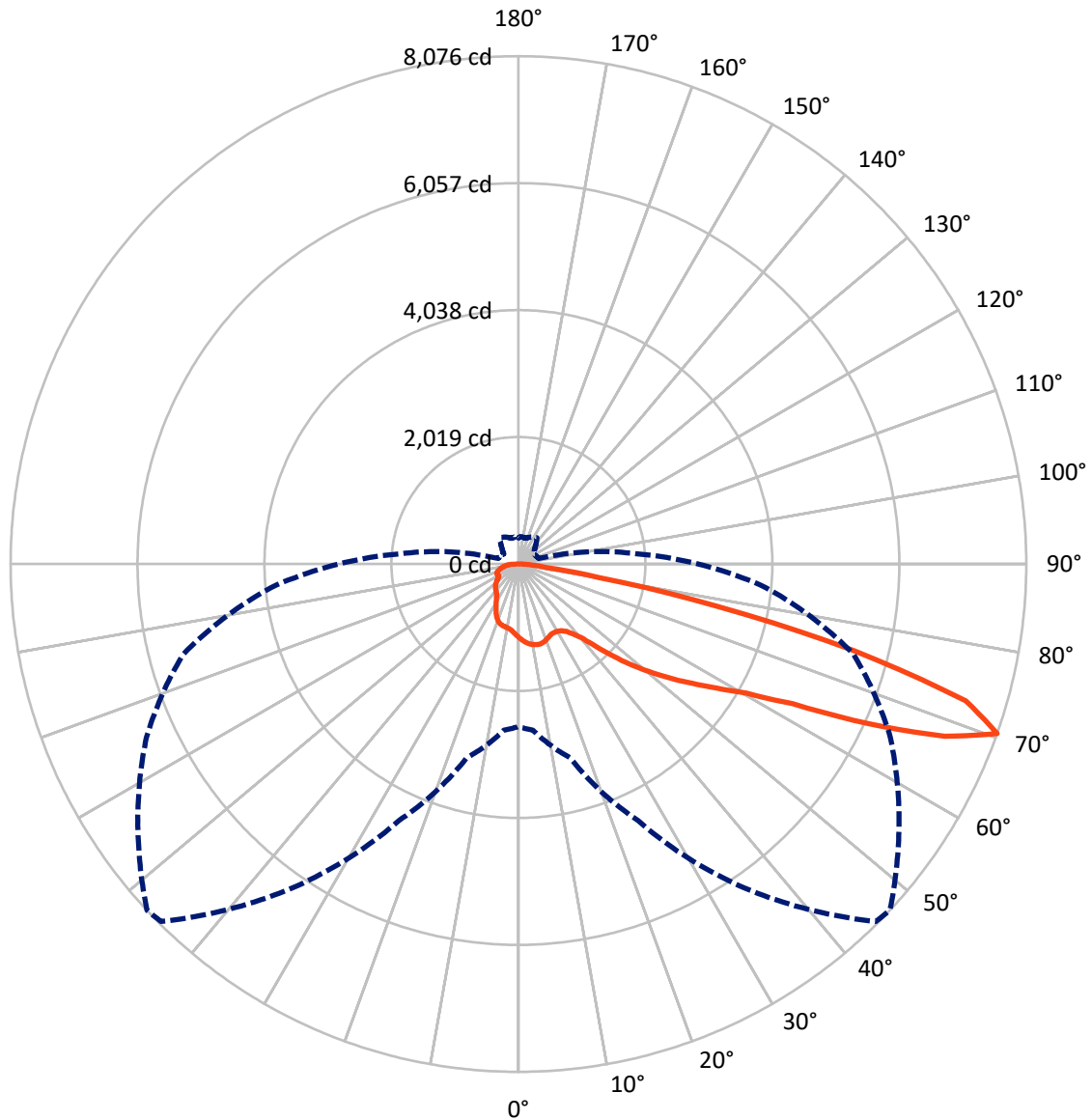
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.4 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	2100.0	0.0	2100.0
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	7966.0	0.0	7966.0
	% Fixture	79.1	0.0	79.1
Total	Lumens	10066.0	0.0	10066.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.9	1.1
10°-20°	328.3	3.3
20°-30°	484.8	4.8
30°-40°	704.7	7.0
40°-50°	1268.2	12.6
50°-60°	2197.0	21.8
60°-70°	3135.8	31.2
70°-80°	1609.8	16.0
80°-90°	225.4	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°	10066.0	100.0
0°-180°	10066.0	100.0

Coefficient of Utilization



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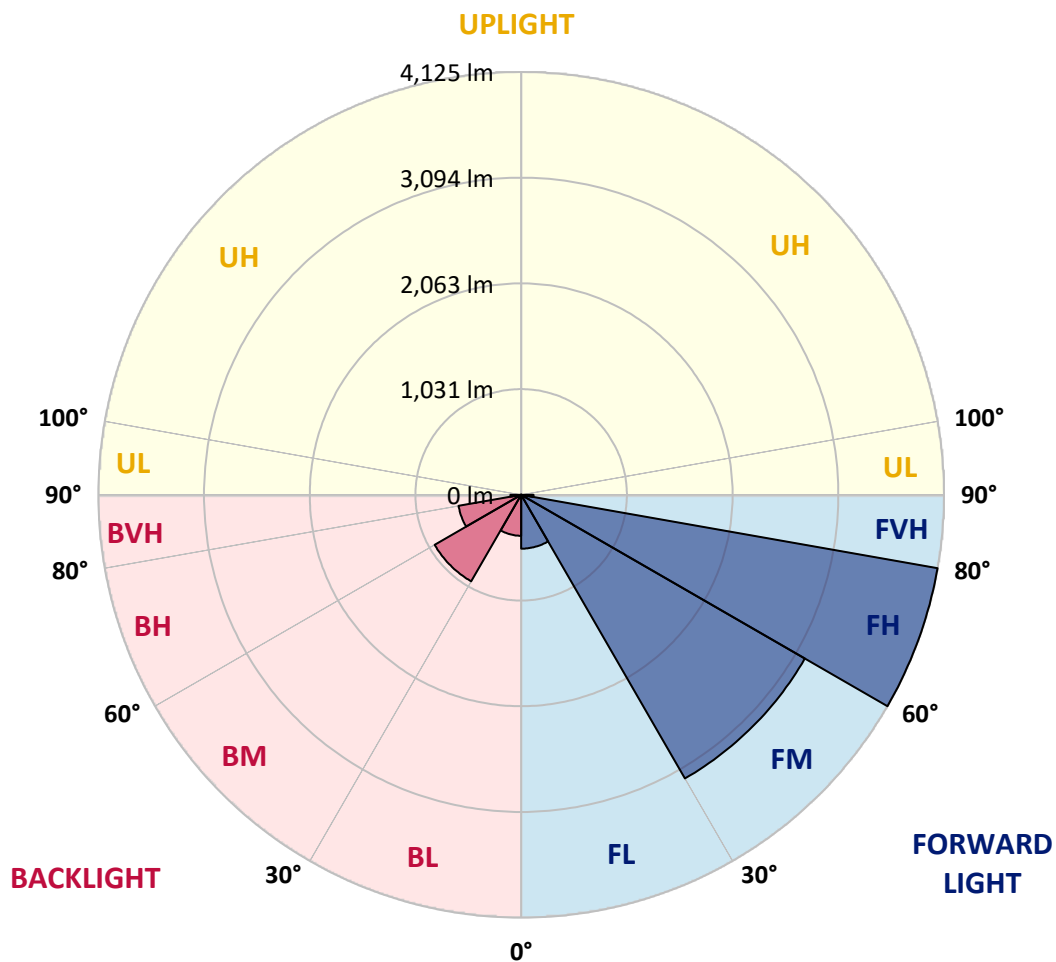
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	525.2	5.2			
FM	(30°-60°)	3195.2	31.7			
FH	(60°-80°)	4125.3	41.0			G2/5000
FVH	(80°-90°)	120.3	1.2			G2/225
BL	(0°-30°)	399.8	4.0	B1/500		
BM	(30°-60°)	974.7	9.7	B1/1000		
BH	(60°-80°)	620.3	6.2	B2/1000		G2/1000
BVH	(80°-90°)	105.1	1.0			G2/225
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°	1168.0	1168.0	1168.0	1168.0	1168.0	1168.0	1168.0	1168.0	1168.0	1168.0	1168.0
2.5°	1236.5	1234.1	1233.1	1231.1	1228.7	1216.5	1214.0	1205.2	1192.9	1180.2	1167.0
5°	1317.8	1317.3	1311.9	1302.2	1286.5	1259.5	1253.2	1231.6	1202.7	1174.8	1146.9
7.5°	1389.3	1384.9	1374.6	1355.0	1327.6	1290.9	1282.1	1252.2	1212.5	1174.3	1136.6
10°	1441.7	1439.3	1416.7	1389.8	1354.1	1313.4	1303.1	1269.8	1226.2	1177.8	1130.8
12.5°	1471.6	1466.7	1440.7	1408.4	1365.8	1326.1	1315.9	1282.1	1233.1	1177.8	1122.4
15°	1469.6	1466.2	1440.3	1405.0	1361.9	1327.1	1317.8	1284.0	1231.6	1172.9	1111.7
17.5°	1430.5	1431.9	1409.9	1375.1	1339.9	1313.4	1305.1	1273.7	1221.8	1163.1	1098.9
20°	1361.9	1368.8	1354.1	1323.2	1303.6	1285.5	1280.1	1253.7	1206.7	1148.9	1085.2
22.5°	1293.3	1299.7	1293.8	1267.9	1264.9	1254.2	1251.2	1232.1	1193.4	1140.1	1076.9
25°	1242.9	1248.8	1247.8	1225.3	1234.1	1233.6	1231.1	1221.8	1190.5	1140.1	1078.4
27.5°	1229.2	1231.1	1229.2	1208.6	1220.9	1230.7	1228.7	1227.2	1199.3	1154.3	1097.0
30°	1276.2	1273.3	1258.1	1216.5	1227.7	1241.4	1239.5	1240.4	1225.8	1191.5	1138.6
32.5°	1463.8	1450.5	1402.5	1285.5	1255.6	1263.0	1264.0	1280.1	1282.6	1248.8	1203.2
35°	1744.4	1729.7	1667.5	1470.6	1342.3	1316.8	1316.8	1341.3	1356.0	1331.0	1303.6
37.5°	2041.6	2025.5	1992.2	1727.2	1524.5	1410.4	1407.9	1425.1	1446.1	1452.0	1458.9
40°	2379.5	2362.4	2371.7	2015.2	1778.6	1572.5	1537.7	1525.5	1582.3	1620.0	1674.8
42.5°	2749.3	2741.4	2744.9	2335.9	2068.1	1814.9	1765.4	1702.2	1770.8	1837.9	1953.0
45°	3091.6	3098.4	3095.0	2679.2	2390.3	2110.7	2058.3	1935.8	2002.9	2118.0	2305.6
47.5°	3391.3	3362.9	3406.9	3054.4	2751.2	2441.7	2377.1	2213.0	2281.1	2423.1	2740.4
50°	3755.1	3751.2	3686.6	3554.8	3187.6	2774.2	2689.5	2499.5	2605.3	2802.6	3288.4
52.5°	4137.6	4066.6	4007.3	3944.2	3650.3	3115.1	3011.3	2785.0	2986.3	3234.6	3956.4
55°	4216.0	4184.1	4257.6	4363.8	4096.5	3469.1	3348.2	3143.0	3415.3	3728.2	4726.7
57.5°	4383.4	4382.9	4534.8	4724.3	4555.8	3844.7	3722.8	3575.4	3897.6	4293.8	5544.5
60°	4496.6	4528.4	4810.5	5178.2	5006.8	4278.6	4166.5	4074.4	4446.1	4926.0	6306.5
62.5°	4555.8	4598.9	4983.8	5362.4	5644.5	5001.0	4888.8	4756.1	5171.9	5619.5	6752.2
65°	4309.5	4394.2	4956.9	5521.5	6202.7	6171.9	6121.4	5888.3	6079.3	6167.5	6591.1
67.5°	3627.8	3714.5	4369.7	5373.1	6601.4	7301.2	7311.9	6913.8	6637.6	6214.5	5541.6
70°	2584.7	2652.8	3194.9	4504.9	6297.7	8039.2	8075.9	7386.4	6526.4	5511.2	3871.7
72.5°	1227.2	1268.9	1782.1	2931.9	4997.5	7365.8	7436.8	6783.0	5549.4	4080.3	2112.1
75°	451.0	463.8	602.3	1247.3	2898.6	5431.9	5515.7	4862.4	3678.7	2031.3	804.6
77.5°	270.3	278.6	337.9	526.4	1140.1	3104.8	3228.7	2644.5	1607.7	756.1	395.7
80°	189.0	194.9	242.4	327.6	538.7	1183.2	1293.3	1079.3	640.5	478.5	288.0
82.5°	127.8	130.8	170.4	221.4	358.0	422.6	455.9	479.9	431.9	356.0	182.7
85°	83.7	86.7	115.6	145.9	227.7	218.4	223.3	282.6	315.4	241.9	101.4
87.5°	48.0	50.0	69.5	77.9	111.7	92.6	93.5	148.9	201.8	163.1	61.7
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°	1168.0	1168.0	1168.0	1168.0	1168.0	1168.0	1168.0	1168.0	1168.0	1168.0	1168.0
2.5°	1163.6	1157.2	1143.0	1134.2	1125.9	1123.9	1120.5	1120.0	1119.5	1119.5	1118.0
5°	1137.6	1126.8	1104.8	1092.6	1082.3	1081.3	1080.8	1083.2	1084.2	1085.2	1083.7
7.5°	1121.0	1106.3	1078.8	1061.2	1049.0	1046.0	1050.9	1062.2	1069.5	1072.5	1071.0
10°	1110.7	1092.6	1060.7	1041.6	1031.3	1029.9	1036.2	1049.5	1064.6	1070.5	1070.0
12.5°	1098.9	1078.4	1044.6	1024.5	1018.6	1021.5	1029.9	1042.1	1057.8	1067.1	1067.6
15°	1087.2	1063.2	1028.4	1010.8	1008.3	1012.2	1020.1	1029.4	1041.6	1050.9	1051.9
17.5°	1073.0	1048.0	1013.2	995.1	993.1	995.1	995.6	1000.5	1008.3	1017.1	1019.6
20°	1057.8	1032.3	996.1	978.0	969.1	961.3	952.5	953.5	955.9	964.7	966.7
22.5°	1047.0	1021.5	982.9	957.9	934.4	910.9	893.2	890.8	891.8	899.1	901.6
25°	1048.0	1021.1	979.4	936.3	884.9	847.2	823.7	819.8	819.3	824.7	828.1
27.5°	1067.1	1040.2	992.2	914.3	831.0	775.2	750.2	747.3	743.4	744.9	748.8
30°	1109.7	1084.7	1023.0	891.8	772.8	704.7	678.7	675.8	670.4	668.0	670.9
32.5°	1179.2	1158.7	1068.1	870.2	714.5	644.5	618.0	611.7	608.2	605.3	607.7
35°	1294.8	1286.0	1128.3	846.7	663.1	597.9	573.9	564.2	559.3	564.6	568.6
37.5°	1476.0	1480.9	1207.1	810.0	623.4	567.1	547.0	535.7	528.4	532.8	537.2
40°	1732.6	1736.0	1294.3	758.1	589.1	549.0	527.4	517.1	506.9	499.0	498.5
42.5°	2069.5	2034.8	1380.0	701.8	549.5	537.7	513.7	501.0	485.3	463.8	459.4
45°	2469.1	2347.2	1445.1	637.1	504.9	524.0	498.5	480.9	456.4	432.9	430.5
47.5°	2929.5	2682.7	1477.0	570.0	463.3	503.9	479.9	452.0	421.2	409.4	407.9
50°	3491.7	3080.8	1492.2	504.9	427.0	477.5	453.0	420.2	394.2	391.8	390.3
52.5°	4131.7	3559.7	1497.1	451.5	397.2	443.2	430.9	399.1	378.5	380.5	380.5
55°	4801.7	4054.3	1430.5	412.8	369.7	407.9	416.3	390.8	373.7	381.5	384.4
57.5°	5416.7	4492.6	1220.9	383.0	343.8	381.0	410.9	398.6	386.9	418.7	420.7
60°	5888.8	4751.7	911.8	356.0	324.7	371.7	425.1	428.5	431.4	507.3	517.6
62.5°	5987.7	4665.5	626.8	335.0	315.9	379.5	451.0	451.5	448.1	501.0	507.3
65°	5533.8	4120.5	455.9	323.2	308.5	393.7	473.1	462.8	440.3	480.4	468.7
67.5°	4394.7	3104.3	379.5	314.4	297.7	392.8	496.6	473.1	435.8	470.6	451.5
70°	2852.6	1877.1	337.9	307.1	285.0	374.1	510.3	472.1	423.1	437.8	415.3
72.5°	1391.8	839.4	310.0	296.3	271.8	348.2	509.8	463.3	409.9	408.9	396.7
75°	544.6	384.4	284.5	280.1	249.3	318.8	496.1	450.5	394.2	378.5	374.1
77.5°	318.8	274.2	252.2	256.1	222.3	289.4	476.0	428.5	372.7	354.1	349.2
80°	232.1	205.2	215.0	221.4	190.0	260.0	449.1	401.6	348.7	358.0	351.1
82.5°	148.9	132.2	174.3	180.7	158.2	230.2	419.7	373.2	314.9	286.0	279.1
85°	75.9	83.7	129.8	137.6	121.9	189.0	383.9	335.5	276.7	238.0	241.9
87.5°	42.6	57.3	82.8	92.6	86.2	145.4	311.5	276.7	225.8	183.6	161.6
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)