

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: P200698

Luminaire Tested: **GAP-AF-02-LED-U-T4W-8030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200698
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-8030-1200
Description: GALLEON PEDESTRIAN LUMINAIRE
(2) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11042 lumens
Efficiency: N/A
Efficacy: 85.6 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

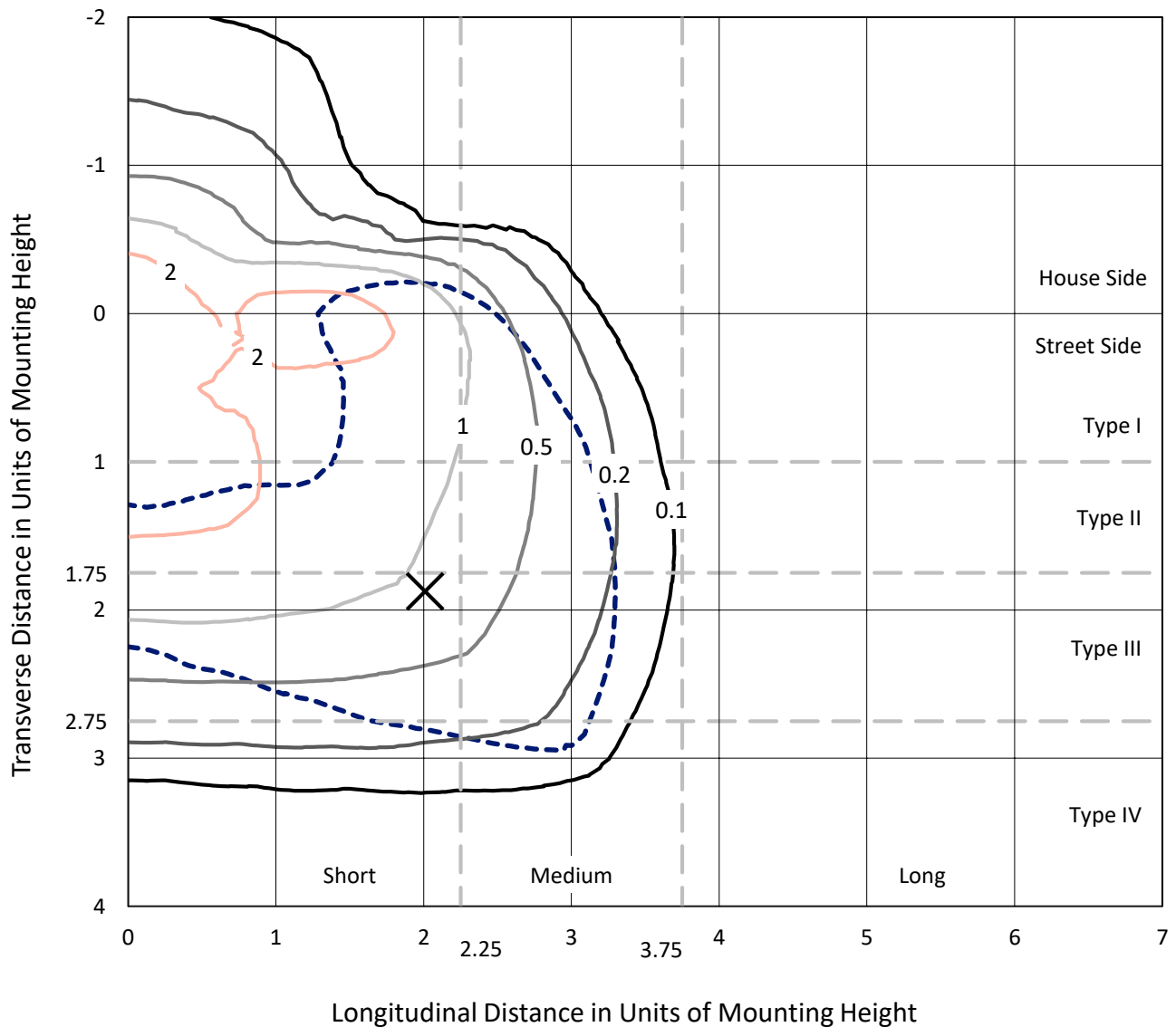
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

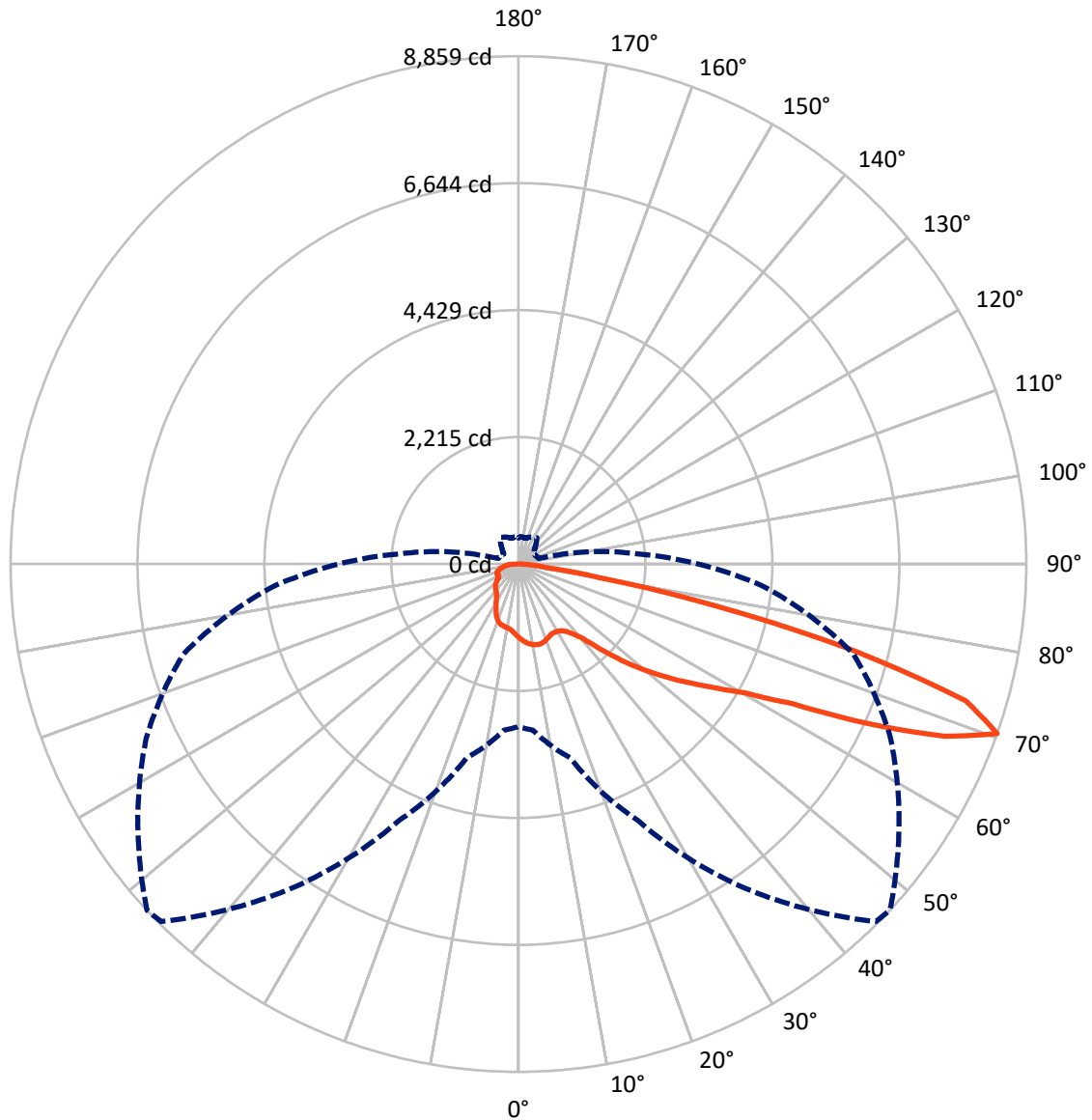


Based on 20 foot mounting height. Maximum calculated value = 3.7 fc
 Type IV - Short - Semi-Cutoff

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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	2303.6	0.0	2303.6
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	8738.4	0.0	8738.4
	% Fixture	79.1	0.0	79.1
Total	Lumens	11042.0	0.0	11042.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.8	1.1
10°-20°	360.2	3.3
20°-30°	531.8	4.8
30°-40°	773.0	7.0
40°-50°	1391.2	12.6
50°-60°	2410.1	21.8
60°-70°	3439.9	31.2
70°-80°	1765.8	16.0
80°-90°	247.2	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°	11042.0	100.0
0°-180°	11042.0	100.0

Coefficient of Utilization



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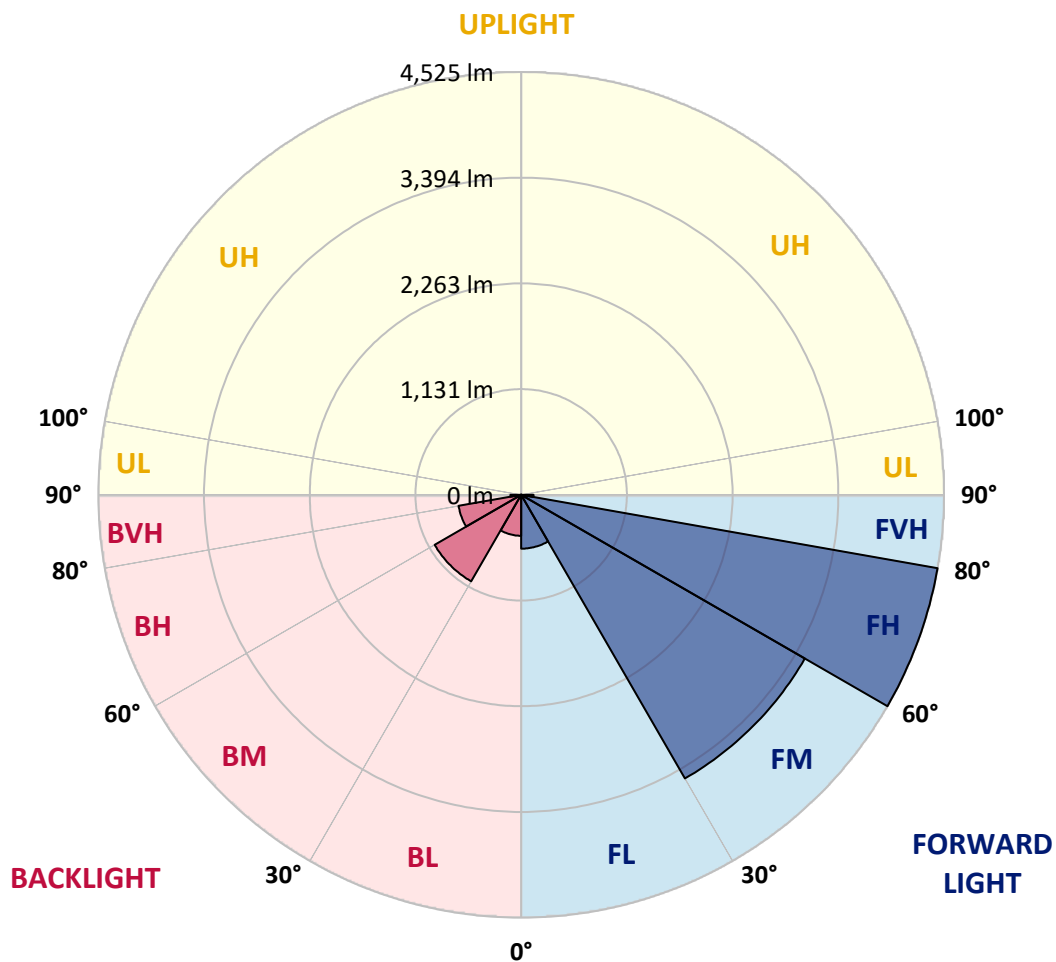
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	576.1	5.2			
FM	(30°-60°)	3505.0	31.7			
FH	(60°-80°)	4525.3	41.0			G2/5000
FVH	(80°-90°)	131.9	1.2			G2/225
BL	(0°-30°)	438.6	4.0	B1/500		
BM	(30°-60°)	1069.3	9.7	B2/2500		
BH	(60°-80°)	680.4	6.2	B2/1000		G2/1000
BVH	(80°-90°)	115.3	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°	1281.2	1281.2	1281.2	1281.2	1281.2	1281.2	1281.2	1281.2	1281.2	1281.2	1281.2
2.5°	1356.4	1353.7	1352.7	1350.5	1347.8	1334.4	1331.7	1322.0	1308.6	1294.6	1280.1
5°	1445.6	1445.1	1439.2	1428.4	1411.2	1381.7	1374.7	1351.1	1319.4	1288.7	1258.1
7.5°	1524.0	1519.2	1507.9	1486.4	1456.3	1416.1	1406.4	1373.6	1330.1	1288.2	1246.8
10°	1581.5	1578.8	1554.1	1524.6	1485.4	1440.8	1429.5	1393.0	1345.1	1292.0	1240.4
12.5°	1614.3	1608.9	1580.4	1545.0	1498.2	1454.7	1443.4	1406.4	1352.7	1292.0	1231.3
15°	1612.1	1608.4	1579.9	1541.2	1493.9	1455.8	1445.6	1408.5	1351.1	1286.6	1219.4
17.5°	1569.2	1570.8	1546.6	1508.5	1469.8	1440.8	1431.6	1397.3	1340.3	1275.8	1205.5
20°	1493.9	1501.5	1485.4	1451.5	1430.0	1410.1	1404.2	1375.2	1323.7	1260.3	1190.4
22.5°	1418.7	1425.7	1419.3	1390.8	1387.6	1375.8	1372.5	1351.6	1309.2	1250.6	1181.3
25°	1363.4	1369.9	1368.8	1344.1	1353.7	1353.2	1350.5	1340.3	1305.9	1250.6	1182.9
27.5°	1348.4	1350.5	1348.4	1325.8	1339.2	1350.0	1347.8	1346.2	1315.6	1266.2	1203.3
30°	1399.9	1396.7	1380.1	1334.4	1346.8	1361.8	1359.6	1360.7	1344.6	1307.0	1249.0
32.5°	1605.7	1591.2	1538.5	1410.1	1377.4	1385.4	1386.5	1404.2	1406.9	1369.9	1319.9
35°	1913.5	1897.4	1829.2	1613.2	1472.5	1444.5	1444.5	1471.4	1487.5	1460.1	1430.0
37.5°	2239.6	2221.8	2185.3	1894.7	1672.3	1547.1	1544.4	1563.2	1586.3	1592.8	1600.3
40°	2610.2	2591.4	2601.6	2210.6	1951.1	1724.9	1686.8	1673.4	1735.7	1777.0	1837.2
42.5°	3015.8	3007.2	3011.0	2562.4	2268.6	1990.9	1936.6	1867.3	1942.5	2016.1	2142.3
45°	3391.3	3398.8	3395.1	2939.0	2622.1	2315.3	2257.8	2123.5	2197.1	2323.4	2529.1
47.5°	3720.1	3688.9	3737.3	3350.5	3018.0	2678.5	2607.6	2427.6	2502.3	2658.1	3006.2
50°	4119.2	4114.9	4044.0	3899.5	3496.6	3043.2	2950.3	2741.9	2857.9	3074.4	3607.3
52.5°	4538.8	4460.9	4395.9	4326.6	4004.3	3417.1	3303.2	3055.0	3275.8	3548.2	4340.0
55°	4624.7	4589.8	4670.4	4787.0	4493.7	3805.5	3672.8	3447.7	3746.4	4089.7	5185.0
57.5°	4808.5	4807.9	4974.4	5182.3	4997.5	4217.5	4083.8	3922.1	4275.6	4710.1	6082.1
60°	4932.5	4967.5	5276.9	5680.3	5492.3	4693.5	4570.5	4469.5	4877.2	5403.7	6918.0
62.5°	4997.5	5044.8	5467.1	5882.3	6191.7	5485.9	5362.8	5217.3	5673.3	6164.3	7406.9
65°	4727.3	4820.3	5437.5	6056.9	6804.1	6770.3	6715.0	6459.3	6668.8	6765.5	7230.1
67.5°	3979.6	4074.6	4793.4	5894.1	7241.4	8009.1	8020.9	7584.2	7281.2	6817.0	6078.9
70°	2835.3	2910.0	3504.7	4941.7	6908.4	8818.6	8858.9	8102.5	7159.2	6045.6	4247.1
72.5°	1346.2	1391.9	1954.9	3216.2	5482.1	8080.0	8157.9	7440.7	6087.5	4475.9	2316.9
75°	494.8	508.7	660.8	1368.2	3179.7	5958.6	6050.5	5333.8	4035.4	2228.3	882.6
77.5°	296.5	305.7	370.7	577.5	1250.6	3405.8	3541.7	2900.9	1763.6	829.4	434.1
80°	207.4	213.8	265.9	359.4	590.9	1297.9	1418.7	1184.0	702.7	524.8	315.9
82.5°	140.2	143.4	186.9	242.8	392.7	463.6	500.1	526.5	473.8	390.5	200.4
85°	91.9	95.1	126.8	160.1	249.8	239.6	245.0	310.0	346.0	265.4	111.2
87.5°	52.6	54.8	76.3	85.4	122.5	101.5	102.6	163.3	221.3	178.9	67.7
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°	1281.2	1281.2	1281.2	1281.2	1281.2	1281.2	1281.2	1281.2	1281.2	1281.2	1281.2
2.5°	1276.4	1269.4	1253.8	1244.1	1235.0	1232.9	1229.1	1228.6	1228.0	1228.0	1226.4
5°	1247.9	1236.1	1211.9	1198.5	1187.2	1186.1	1185.6	1188.3	1189.4	1190.4	1188.8
7.5°	1229.6	1213.5	1183.4	1164.1	1150.7	1147.5	1152.8	1165.2	1173.2	1176.5	1174.9
10°	1218.4	1198.5	1163.6	1142.6	1131.3	1129.7	1136.7	1151.2	1167.9	1174.3	1173.8
12.5°	1205.5	1182.9	1145.8	1123.8	1117.4	1120.6	1129.7	1143.2	1160.3	1170.6	1171.1
15°	1192.6	1166.3	1128.1	1108.8	1106.1	1110.4	1119.0	1129.2	1142.6	1152.8	1153.9
17.5°	1177.0	1149.6	1111.5	1091.6	1089.4	1091.6	1092.1	1097.5	1106.1	1115.8	1118.4
20°	1160.3	1132.4	1092.7	1072.8	1063.1	1054.5	1044.8	1045.9	1048.6	1058.3	1060.4
22.5°	1148.5	1120.6	1078.2	1050.8	1025.0	999.2	979.8	977.2	978.2	986.3	989.0
25°	1149.6	1120.1	1074.4	1027.1	970.7	929.4	903.6	899.3	898.7	904.6	908.4
27.5°	1170.6	1141.0	1088.4	1002.9	911.6	850.4	823.0	819.8	815.5	817.1	821.4
30°	1217.3	1189.9	1122.2	978.2	847.7	773.0	744.6	741.3	735.4	732.7	736.0
32.5°	1293.6	1271.0	1171.6	954.6	783.8	707.0	677.9	671.0	667.2	664.0	666.7
35°	1420.3	1410.7	1237.7	928.8	727.4	655.9	629.6	618.9	613.5	619.4	623.7
37.5°	1619.1	1624.5	1324.2	888.5	683.9	622.1	600.0	587.7	579.6	584.5	589.3
40°	1900.6	1904.4	1419.8	831.6	646.2	602.2	578.6	567.3	556.0	547.4	546.9
42.5°	2270.2	2232.1	1513.8	769.8	602.7	589.8	563.5	549.6	532.4	508.7	503.9
45°	2708.5	2574.8	1585.3	698.9	553.9	574.8	546.9	527.5	500.7	474.9	472.2
47.5°	3213.5	2942.8	1620.2	625.3	508.2	552.8	526.5	495.8	462.0	449.1	447.5
50°	3830.2	3379.5	1636.8	553.9	468.4	523.8	496.9	460.9	432.4	429.8	428.1
52.5°	4532.3	3904.9	1642.2	495.3	435.7	486.2	472.7	437.8	415.3	417.4	417.4
55°	5267.2	4447.5	1569.2	452.9	405.6	447.5	456.6	428.7	409.9	418.5	421.7
57.5°	5941.9	4928.2	1339.2	420.1	377.1	417.9	450.7	437.3	424.4	459.3	461.5
60°	6459.8	5212.4	1000.3	390.5	356.2	407.7	466.3	470.0	473.3	556.5	567.8
62.5°	6568.3	5117.9	687.6	367.4	346.5	416.3	494.8	495.3	491.5	549.6	556.5
65°	6070.3	4520.0	500.1	354.6	338.4	431.9	518.9	507.7	482.9	527.0	514.1
67.5°	4820.8	3405.3	416.3	344.9	326.6	430.8	544.7	518.9	478.1	516.2	495.3
70°	3129.2	2059.1	370.7	336.8	312.6	410.4	559.8	517.9	464.1	480.3	455.5
72.5°	1526.7	920.8	340.0	325.0	298.1	381.9	559.2	508.2	449.6	448.6	435.1
75°	597.4	421.7	312.1	307.3	273.4	349.7	544.2	494.2	432.4	415.3	410.4
77.5°	349.7	300.8	276.7	281.0	243.9	317.5	522.2	470.0	408.8	388.4	383.0
80°	254.6	225.1	235.8	242.8	208.4	285.3	492.6	440.5	382.5	392.7	385.2
82.5°	163.3	145.0	191.2	198.2	173.5	252.5	460.4	409.3	345.4	313.7	306.2
85°	83.3	91.9	142.4	151.0	133.8	207.4	421.2	368.0	303.5	261.1	265.4
87.5°	46.7	62.9	90.8	101.5	94.5	159.5	341.7	303.5	247.6	201.4	177.3
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)