

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: P191560

Luminaire Tested: **GAN-AF-02-LED-U-T4W-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191560
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: GAN-AF-02-LED-U-T4W-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 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: 9995.3 lumens
Efficiency: N/A
Efficacy: 117.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G2

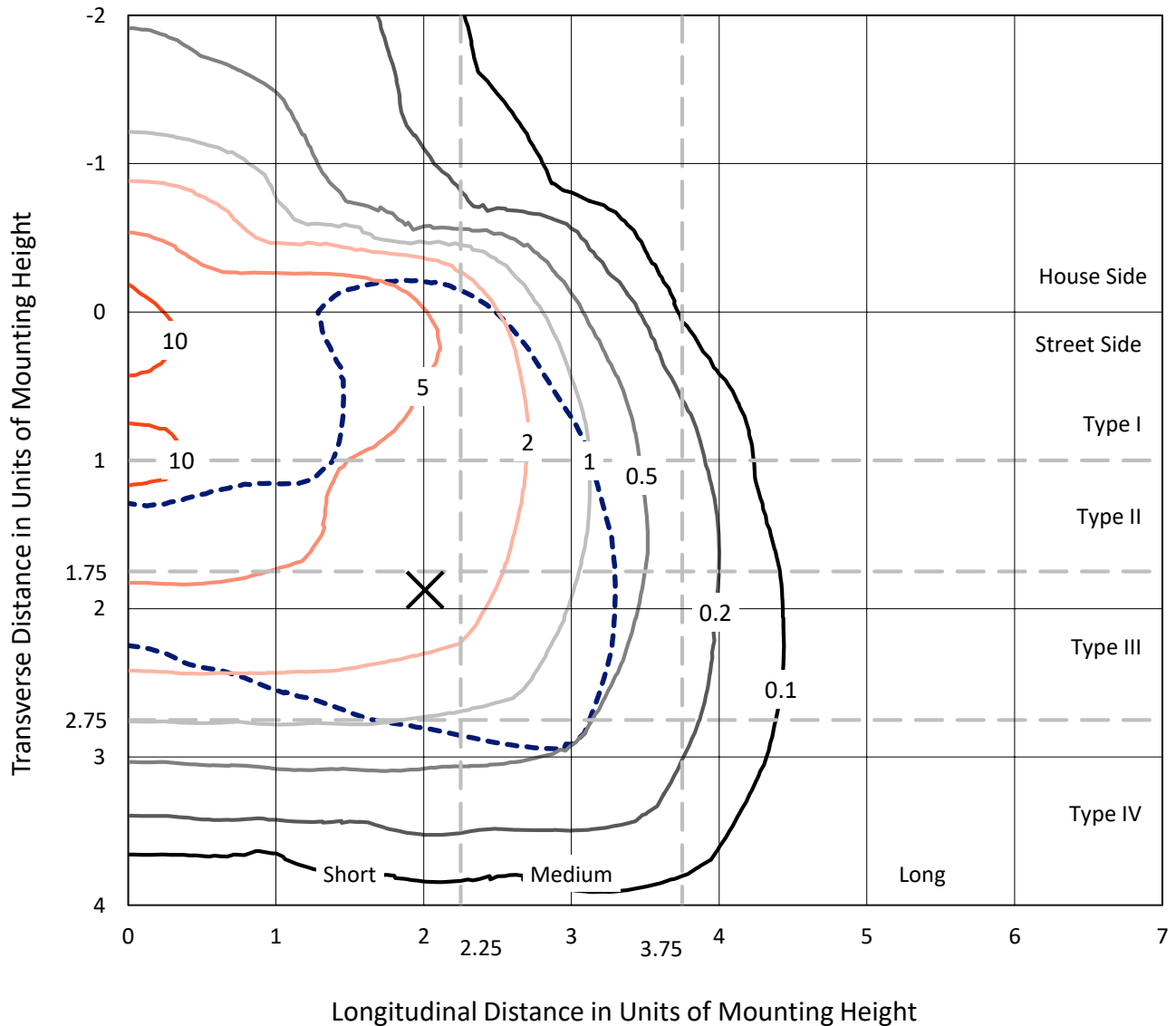
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

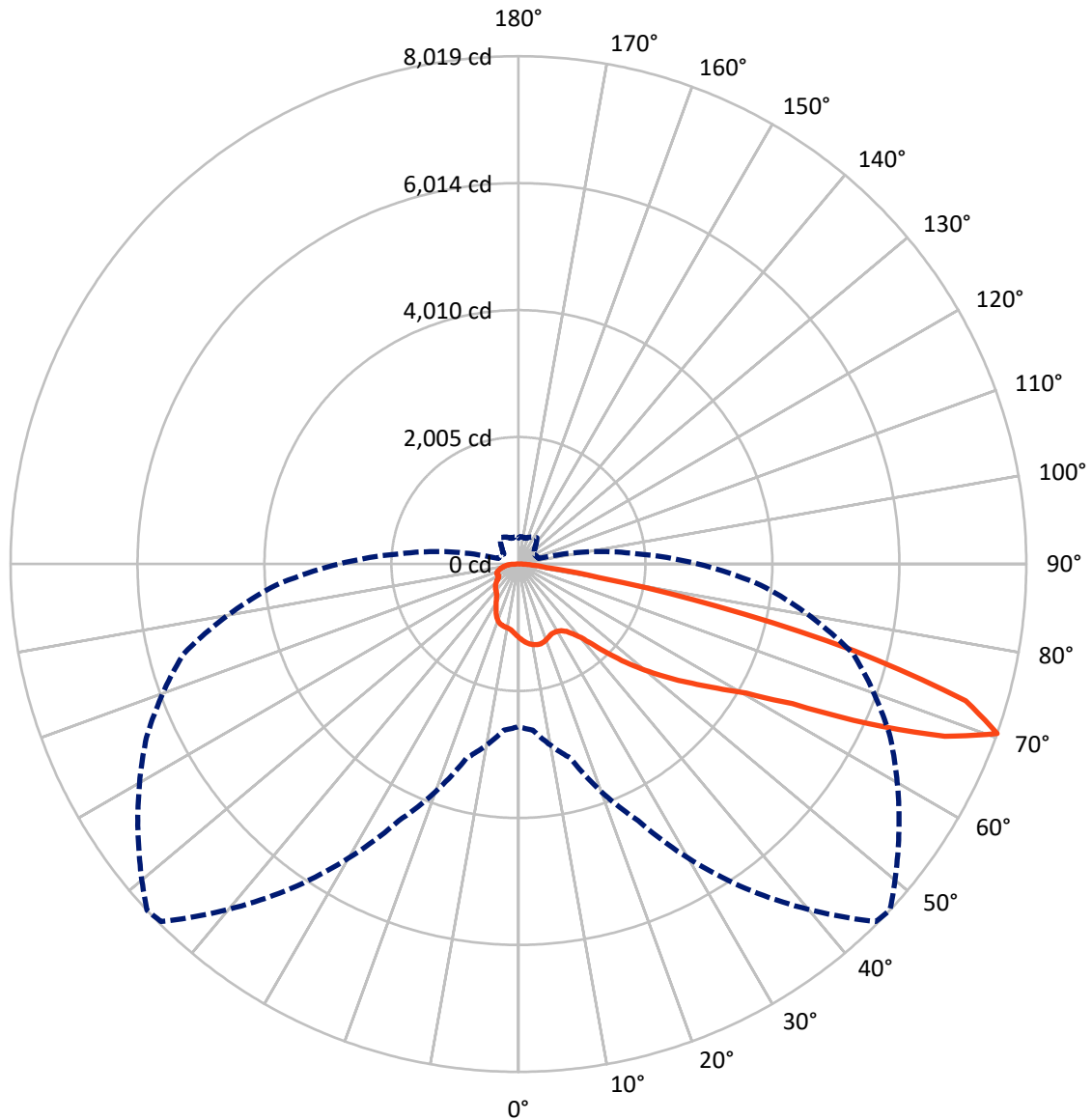
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.4 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	2085.2	0.0	2085.2
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	7910.0	0.0	7910.0
	% Fixture	79.1	0.0	79.1
Total	Lumens	9995.3	0.0	9995.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.1	1.1
10°-20°	326.0	3.3
20°-30°	481.4	4.8
30°-40°	699.7	7.0
40°-50°	1259.3	12.6
50°-60°	2181.6	21.8
60°-70°	3113.8	31.2
70°-80°	1598.4	16.0
80°-90°	223.8	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°	9995.3	100.0
0°-180°	9995.3	100.0

Coefficient of Utilization



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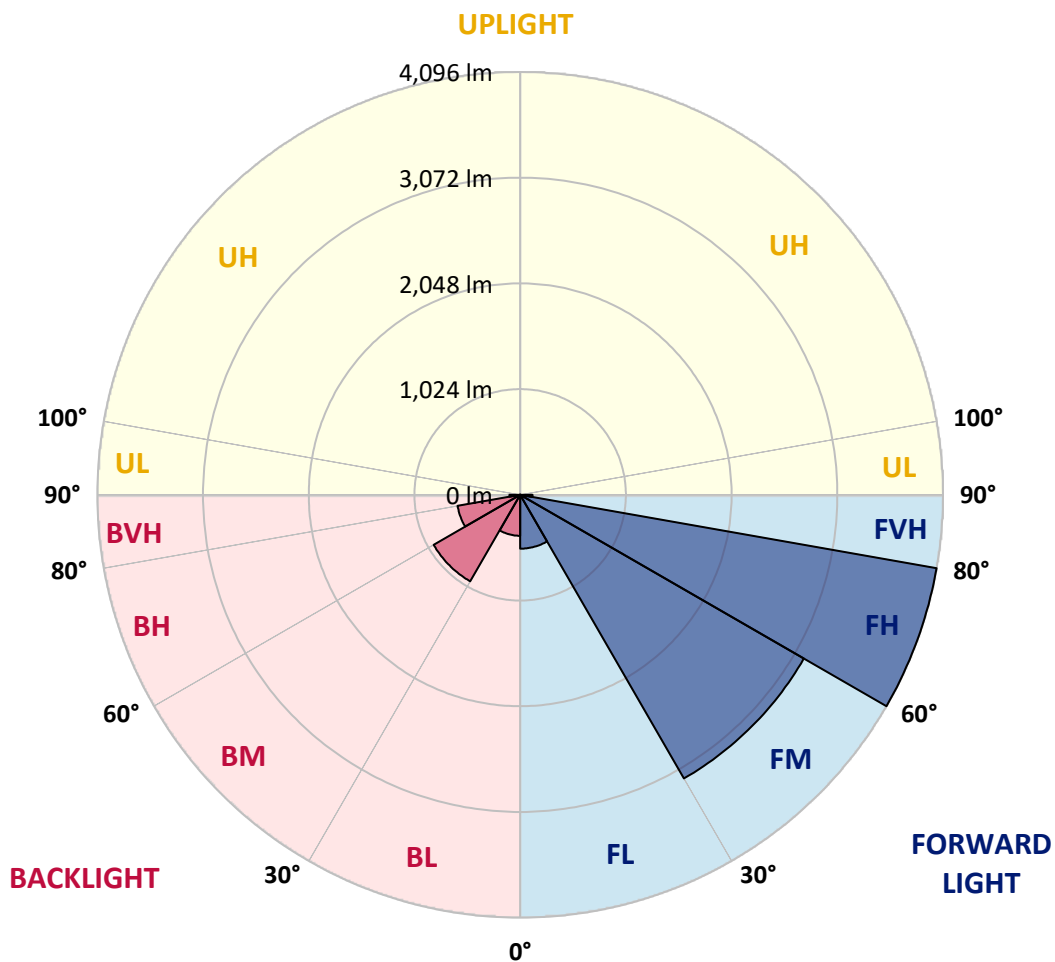
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	521.5	5.2			
FM	(30°-60°)	3172.8	31.7			
FH	(60°-80°)	4096.3	41.0			G2/5000
FVH	(80°-90°)	119.4	1.2			G2/225
BL	(0°-30°)	397.0	4.0	B1/500		
BM	(30°-60°)	967.9	9.7	B1/1000		
BH	(60°-80°)	615.9	6.2	B2/1000		G2/1000
BVH	(80°-90°)	104.4	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°	1159.7	1159.7	1159.7	1159.7	1159.7	1159.7	1159.7	1159.7	1159.7	1159.7	1159.7
2.5°	1227.8	1225.4	1224.5	1222.5	1220.1	1207.9	1205.4	1196.8	1184.6	1171.9	1158.8
5°	1308.6	1308.0	1302.7	1293.0	1277.5	1250.7	1244.4	1222.9	1194.3	1166.6	1138.9
7.5°	1379.6	1375.2	1364.9	1345.5	1318.3	1281.9	1273.1	1243.4	1204.0	1166.1	1128.6
10°	1431.6	1429.2	1406.8	1380.1	1344.6	1304.2	1293.9	1260.9	1217.6	1169.4	1122.8
12.5°	1461.3	1456.4	1430.6	1398.5	1356.2	1316.8	1306.6	1273.1	1224.5	1169.4	1114.5
15°	1459.3	1455.9	1430.1	1395.1	1352.3	1317.8	1308.6	1275.0	1222.9	1164.6	1103.9
17.5°	1420.4	1421.9	1400.0	1365.4	1330.4	1304.2	1295.9	1264.8	1213.2	1154.9	1091.2
20°	1352.3	1359.1	1344.6	1313.9	1294.4	1276.4	1271.1	1244.8	1198.2	1140.8	1077.6
22.5°	1284.2	1290.6	1284.7	1258.9	1256.1	1245.3	1242.5	1223.4	1185.1	1132.0	1069.3
25°	1234.2	1240.0	1239.0	1216.7	1225.4	1224.9	1222.5	1213.2	1182.1	1132.0	1070.7
27.5°	1220.6	1222.5	1220.6	1200.1	1212.3	1222.0	1220.1	1218.6	1190.9	1146.1	1089.2
30°	1267.2	1264.3	1249.2	1207.9	1219.1	1232.7	1230.7	1231.7	1217.1	1183.1	1130.6
32.5°	1453.5	1440.3	1392.6	1276.4	1246.8	1254.1	1255.1	1271.1	1273.6	1240.0	1194.8
35°	1732.1	1717.5	1655.7	1460.3	1332.9	1307.6	1307.6	1331.9	1346.5	1321.7	1294.4
37.5°	2027.3	2011.2	1978.2	1715.1	1513.8	1400.4	1398.1	1415.0	1435.9	1441.8	1448.6
40°	2362.8	2345.7	2355.0	2001.0	1766.1	1561.4	1526.9	1514.8	1571.2	1608.6	1663.0
42.5°	2729.9	2722.2	2725.6	2319.5	2053.6	1802.1	1753.0	1690.3	1758.4	1824.9	1939.2
45°	3069.9	3076.6	3073.3	2660.4	2373.5	2095.8	2043.8	1922.2	1988.8	2103.1	2289.4
47.5°	3367.5	3339.2	3383.0	3032.8	2731.9	2424.6	2360.4	2197.5	2265.0	2406.1	2721.2
50°	3728.8	3724.9	3660.6	3529.9	3165.1	2754.7	2670.6	2482.0	2586.9	2782.9	3265.4
52.5°	4108.5	4038.0	3979.2	3916.5	3624.7	3093.2	2990.1	2765.4	2965.3	3211.9	3928.6
55°	4186.3	4154.7	4227.7	4333.2	4067.7	3444.8	3324.7	3120.9	3391.3	3702.0	4693.5
57.5°	4352.7	4352.1	4502.9	4691.0	4523.8	3817.8	3696.6	3550.3	3870.2	4263.7	5505.6
60°	4465.0	4496.6	4776.7	5141.9	4971.6	4248.5	4137.2	4045.8	4414.9	4891.4	6262.2
62.5°	4523.8	4566.6	4948.8	5324.7	5604.7	4965.8	4854.4	4722.7	5135.5	5580.0	6704.7
65°	4279.2	4363.3	4922.0	5482.7	6159.1	6128.5	6078.4	5847.0	6036.6	6124.1	6544.7
67.5°	3602.3	3688.4	4339.1	5335.4	6555.0	7249.9	7260.5	6865.2	6591.0	6170.8	5502.7
70°	2566.6	2634.1	3172.5	4473.3	6253.5	7982.7	8019.1	7334.5	6480.6	5472.5	3844.5
72.5°	1218.6	1260.0	1769.5	2911.3	4962.4	7314.0	7384.6	6735.3	5510.4	4051.6	2097.3
75°	447.8	460.5	598.1	1238.5	2878.3	5393.7	5476.9	4828.2	3652.9	2017.1	798.9
77.5°	268.4	276.7	335.5	522.7	1132.0	3083.0	3206.0	2625.9	1596.4	750.8	392.9
80°	187.7	193.5	240.7	325.3	534.9	1174.9	1284.2	1071.7	636.1	475.1	285.9
82.5°	126.9	129.8	169.2	219.8	355.5	419.6	452.8	476.6	428.9	353.5	181.4
85°	83.2	86.0	114.8	145.0	226.1	216.9	221.8	280.6	313.1	240.2	100.7
87.5°	47.7	49.6	69.0	77.3	110.9	91.9	92.9	147.8	200.3	161.9	61.3
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°	1159.7	1159.7	1159.7	1159.7	1159.7	1159.7	1159.7	1159.7	1159.7	1159.7	1159.7
2.5°	1155.4	1149.1	1135.0	1126.2	1118.0	1116.0	1112.6	1112.2	1111.6	1111.6	1110.2
5°	1129.6	1118.9	1097.0	1084.8	1074.7	1073.7	1073.2	1075.6	1076.7	1077.6	1076.1
7.5°	1113.1	1098.4	1071.2	1053.7	1041.6	1038.7	1043.5	1054.8	1062.0	1064.9	1063.5
10°	1102.8	1084.8	1053.2	1034.3	1024.1	1022.6	1029.0	1042.1	1057.1	1062.9	1062.5
12.5°	1091.2	1070.7	1037.2	1017.3	1011.5	1014.4	1022.6	1034.8	1050.4	1059.6	1060.1
15°	1079.5	1055.7	1021.2	1003.6	1001.3	1005.2	1012.9	1022.1	1034.3	1043.5	1044.5
17.5°	1065.4	1040.6	1006.1	988.1	986.1	988.1	988.6	993.5	1001.3	1010.0	1012.4
20°	1050.4	1025.1	989.1	971.1	962.3	954.5	945.8	946.7	949.2	958.0	959.9
22.5°	1039.6	1014.4	976.0	951.1	927.8	904.5	887.0	884.5	885.5	892.8	895.2
25°	1040.6	1013.8	972.5	929.8	878.7	841.3	818.0	814.1	813.6	818.9	822.2
27.5°	1059.6	1032.9	985.2	907.9	825.2	769.8	745.0	742.0	738.2	739.6	743.5
30°	1101.9	1077.1	1015.8	885.5	767.3	699.7	674.0	671.1	665.7	663.3	666.1
32.5°	1171.0	1150.5	1060.6	864.1	709.5	640.0	613.7	607.3	604.0	601.0	603.4
35°	1285.7	1276.9	1120.3	840.8	658.4	593.7	569.9	560.2	555.4	560.7	564.6
37.5°	1465.6	1470.5	1198.7	804.3	619.0	563.1	543.2	531.9	524.7	529.1	533.5
40°	1720.4	1723.9	1285.2	752.8	585.0	545.1	523.8	513.5	503.3	495.5	495.0
42.5°	2055.0	2020.4	1370.3	696.8	545.6	533.9	510.1	497.5	481.9	460.5	456.1
45°	2451.8	2330.7	1435.0	632.6	501.3	520.3	495.0	477.5	453.2	429.8	427.4
47.5°	2908.9	2663.8	1466.6	566.0	460.0	500.3	476.6	448.9	418.2	406.5	405.1
50°	3467.1	3059.1	1481.6	501.3	424.0	474.1	449.8	417.3	391.5	389.0	387.6
52.5°	4102.6	3534.7	1486.6	448.4	394.3	440.1	427.9	396.3	375.9	377.9	377.9
55°	4767.9	4025.8	1420.4	409.9	367.1	405.1	413.4	388.0	371.0	378.8	381.8
57.5°	5378.7	4461.1	1212.3	380.2	341.4	378.3	408.0	395.8	384.1	415.7	417.7
60°	5847.4	4718.3	905.4	353.5	322.4	369.1	422.1	425.4	428.4	503.8	514.0
62.5°	5945.7	4632.7	622.5	332.6	313.6	376.9	447.8	448.4	445.0	497.5	503.8
65°	5494.9	4091.5	452.8	320.9	306.4	391.0	469.7	459.5	437.2	477.0	465.3
67.5°	4363.8	3082.5	376.9	312.2	295.6	389.9	493.1	469.7	432.8	467.3	448.4
70°	2832.6	1863.9	335.5	304.9	283.1	371.5	506.7	468.7	420.1	434.8	412.4
72.5°	1382.0	833.5	307.8	294.2	269.9	345.8	506.3	460.0	407.0	406.0	393.8
75°	540.7	381.8	282.5	278.1	247.6	316.6	492.6	447.3	391.5	375.9	371.5
77.5°	316.6	272.3	250.4	254.3	220.8	287.3	472.7	425.4	370.1	351.6	346.7
80°	230.5	203.8	213.5	219.8	188.6	258.2	445.9	398.7	346.3	355.5	348.6
82.5°	147.8	131.2	173.1	179.4	157.0	228.5	416.8	370.5	312.7	284.0	277.2
85°	75.4	83.2	128.9	136.7	121.1	187.7	381.3	333.1	274.8	236.3	240.2
87.5°	42.4	56.9	82.1	91.9	85.6	144.4	309.2	274.8	224.1	182.4	160.5
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)