

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: P382849

Luminaire Tested: **GAN-SA2A-735-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382849
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2A-735-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8819.9 lumens
Efficiency: N/A
Efficacy: 133.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

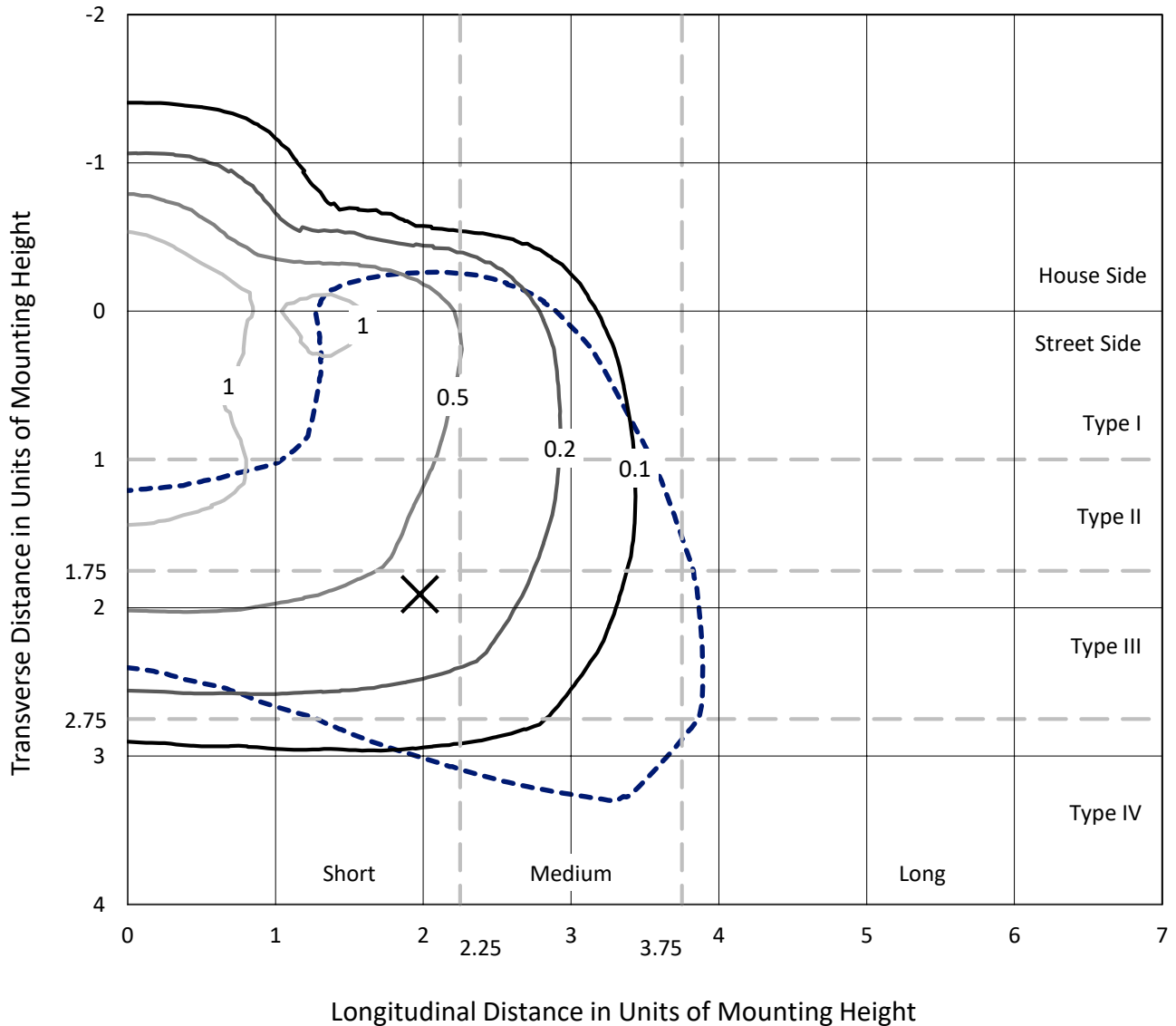
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

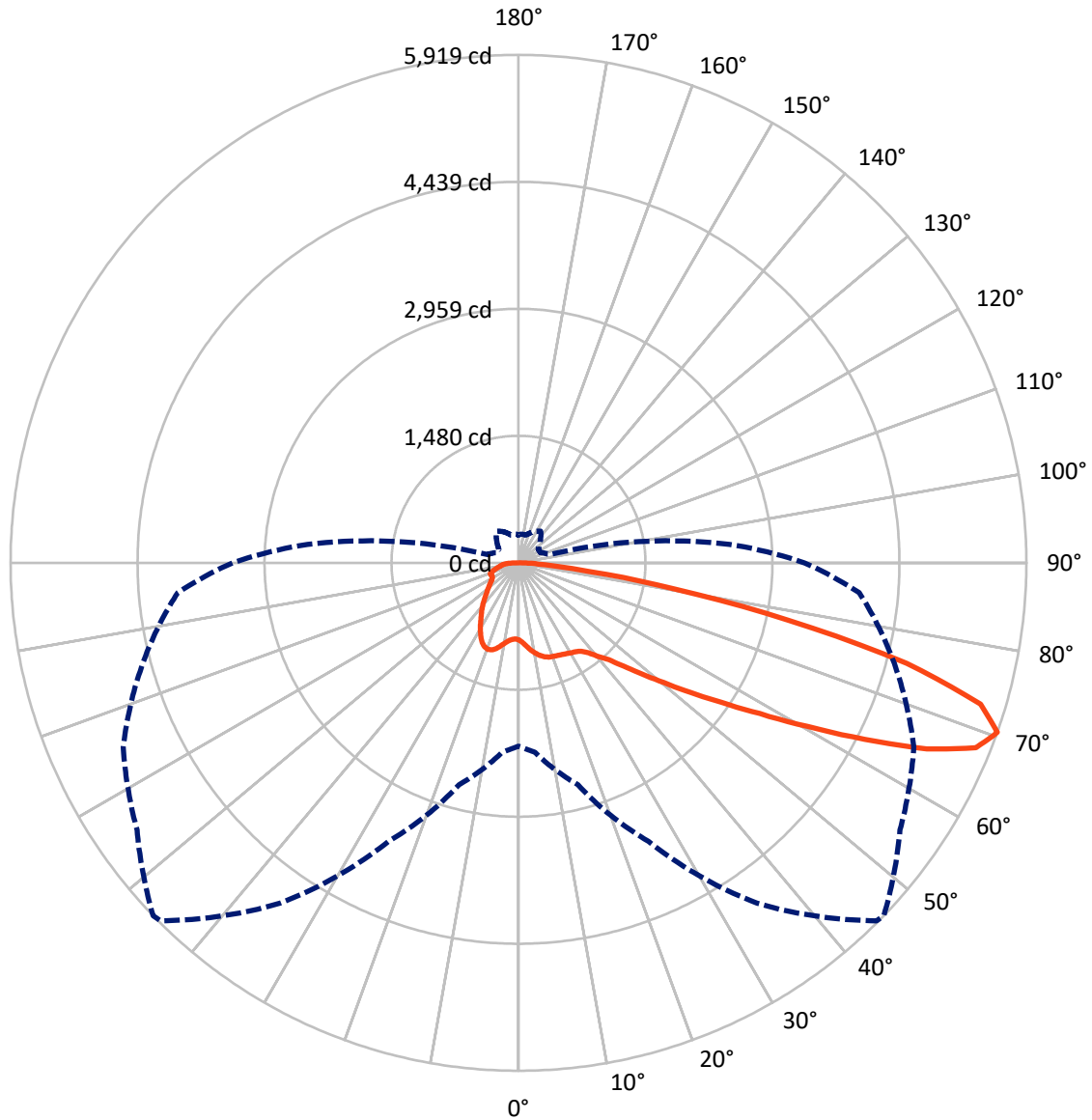
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2021.5	0.0	2021.5
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	6798.4	0.0	6798.4
	% Fixture	77.1	0.0	77.1
Total	Lumens	8819.9	0.0	8819.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.6	1.0
10°-20°	305.2	3.5
20°-30°	508.9	5.8
30°-40°	722.1	8.2
40°-50°	1062.2	12.0
50°-60°	1798.8	20.4
60°-70°	2553.4	29.0
70°-80°	1551.2	17.6
80°-90°	226.4	2.6
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°	8819.9	100.0
0°-180°	8819.9	100.0

Coefficient of Utilization

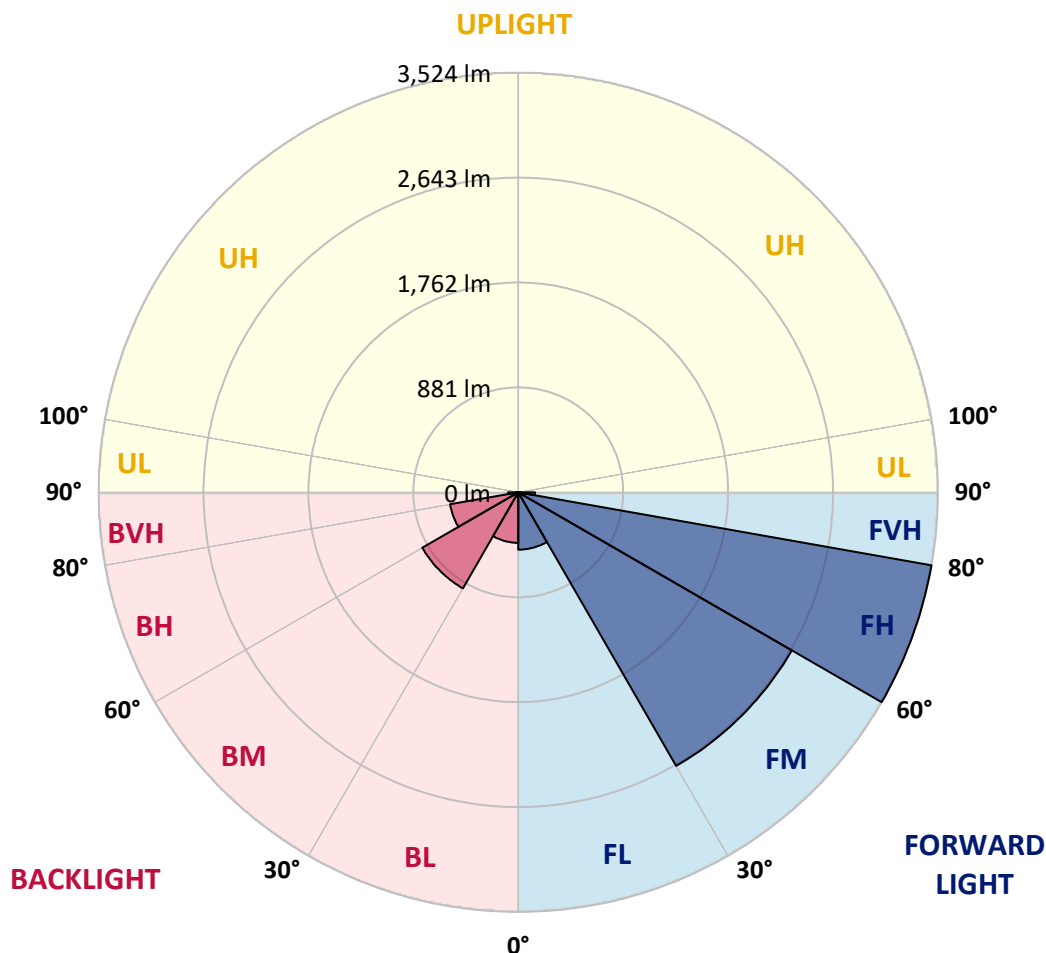


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	481.3	5.5			
FM (30°-60°)	2652.6	30.1			
FH (60°-80°)	3523.5	39.9			G2/5000
FVH (80°-90°)	141.0	1.6			G2/225
BL (0°-30°)	424.4	4.8	B1/500		
BM (30°-60°)	930.5	10.6	B1/1000		
BH (60°-80°)	581.2	6.6	B2/1000		G2/1000
BVH (80°-90°)	85.4	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°	46°	55°	65°	75°	85°
0°	898.6	898.6	898.6	898.6	898.6	898.6	898.6	898.6	898.6	898.6	898.6
2.5°	943.6	944.1	945.3	942.4	933.9	931.5	930.5	921.9	916.1	907.6	900.3
5°	1019.0	1019.6	1017.8	1009.3	990.6	976.7	975.5	955.6	937.5	918.2	903.7
7.5°	1097.8	1098.7	1093.0	1077.0	1050.7	1026.6	1025.1	997.9	970.4	941.1	919.4
10°	1167.5	1163.9	1154.6	1132.2	1101.1	1071.6	1070.3	1041.9	1010.3	975.0	946.0
12.5°	1214.0	1211.0	1198.9	1171.7	1137.6	1110.5	1108.1	1081.8	1051.0	1012.4	977.7
15°	1239.6	1241.8	1225.5	1194.7	1161.5	1138.5	1136.4	1117.7	1090.3	1051.3	1011.5
17.5°	1243.0	1244.8	1229.1	1198.6	1171.4	1155.8	1154.8	1142.4	1122.5	1085.1	1043.4
20°	1223.7	1224.9	1211.9	1186.8	1169.0	1164.2	1163.9	1158.5	1143.7	1110.5	1070.0
22.5°	1195.5	1196.5	1187.2	1169.0	1162.9	1170.5	1172.6	1170.5	1160.0	1128.8	1090.8
25°	1188.7	1188.0	1178.4	1160.0	1165.1	1181.1	1183.8	1184.7	1177.5	1150.3	1117.4
27.5°	1222.2	1220.0	1201.6	1172.1	1175.3	1194.7	1198.3	1207.1	1202.5	1178.7	1147.6
30°	1319.1	1315.4	1277.7	1217.9	1201.6	1211.6	1216.1	1230.0	1230.9	1211.0	1187.7
32.5°	1482.7	1478.1	1410.5	1303.6	1245.9	1228.8	1233.0	1253.9	1265.0	1249.6	1224.5
35°	1689.4	1684.2	1595.6	1449.4	1320.3	1261.7	1264.7	1281.3	1303.6	1281.9	1248.7
37.5°	1904.9	1892.5	1807.1	1620.9	1438.2	1332.0	1332.0	1334.2	1344.7	1299.4	1277.1
40°	2119.2	2106.9	2029.6	1822.5	1591.0	1442.8	1435.9	1389.0	1380.6	1341.7	1334.2
42.5°	2318.4	2314.8	2269.2	2050.4	1770.3	1551.8	1542.1	1462.7	1464.5	1440.4	1440.6
45°	2530.3	2530.3	2493.2	2280.4	1979.2	1726.8	1717.1	1600.3	1618.5	1607.3	1634.1
47.5°	2703.3	2708.7	2703.5	2520.0	2222.1	1949.3	1931.8	1791.1	1841.9	1880.1	1958.3
50°	2879.9	2888.3	2889.2	2783.0	2515.8	2213.7	2193.8	2044.4	2157.6	2267.4	2421.1
52.5°	3136.1	3155.2	3079.3	3045.2	2875.6	2527.6	2508.0	2370.0	2559.0	2713.2	2978.0
55°	3373.7	3357.0	3303.0	3324.1	3260.8	2885.0	2870.2	2749.2	3006.3	3206.8	3550.5
57.5°	3502.2	3501.0	3555.3	3645.9	3676.1	3325.6	3313.3	3195.6	3510.7	3661.3	4088.1
60°	3653.2	3655.3	3789.9	3995.4	4119.8	3874.4	3869.0	3779.7	4000.5	4085.7	4509.8
62.5°	3674.3	3712.3	3944.2	4297.9	4535.1	4515.5	4527.6	4305.7	4438.8	4424.4	4824.6
65°	3431.3	3481.4	3900.9	4389.4	4948.0	5216.7	5227.8	4834.8	4784.4	4713.8	4937.2
67.5°	2933.3	3007.5	3463.3	4190.5	5084.2	5735.0	5750.6	5245.1	5071.2	4811.9	4666.1
70°	2134.6	2217.0	2675.8	3578.9	4841.5	5900.6	5918.5	5426.5	5082.1	4532.7	3983.4
72.5°	1289.4	1354.0	1732.2	2634.8	4086.3	5598.8	5630.5	5196.5	4639.9	3839.4	2941.5
75°	566.3	608.5	837.6	1518.2	2925.4	4632.3	4671.9	4447.9	3770.0	2790.2	1738.5
77.5°	241.2	253.3	343.5	659.5	1653.8	3165.4	3219.7	3249.9	2557.8	1518.2	734.7
80°	150.4	155.1	194.4	298.6	773.9	1777.9	1836.4	1912.2	1270.2	558.1	256.5
82.5°	91.5	96.9	129.2	180.5	403.0	805.9	834.0	887.4	492.9	241.2	132.8
85°	55.0	58.9	79.1	114.1	229.4	316.9	316.6	350.2	232.1	155.1	70.1
87.5°	26.3	29.3	42.3	59.2	115.6	119.0	111.4	126.1	140.9	101.7	35.3
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°	898.6	898.6	898.6	898.6	898.6	898.6	898.6	898.6	898.6	898.6	898.6
2.5°	898.0	896.8	892.8	889.8	889.3	887.4	885.9	886.8	888.0	888.3	888.3
5°	897.6	894.4	889.3	887.1	889.8	893.4	898.0	904.0	907.6	910.3	912.2
7.5°	912.2	905.8	900.1	898.9	904.3	913.9	924.2	937.0	945.7	951.7	952.9
10°	936.3	928.5	922.7	923.9	933.6	947.5	961.9	978.2	991.5	999.7	1000.3
12.5°	964.1	956.5	951.1	956.2	972.3	989.1	1004.2	1018.4	1030.5	1038.6	1038.6
15°	996.1	990.6	984.3	996.1	1017.8	1032.9	1039.2	1046.1	1052.8	1058.9	1057.7
17.5°	1026.8	1021.7	1018.4	1032.2	1054.9	1061.9	1057.7	1052.6	1052.6	1055.8	1056.5
20°	1053.4	1048.9	1051.0	1064.6	1076.4	1069.1	1053.4	1037.1	1030.5	1032.2	1034.1
22.5°	1076.7	1074.5	1080.9	1087.2	1078.7	1053.4	1024.4	1002.4	994.2	993.7	994.2
25°	1103.8	1103.5	1111.3	1099.9	1062.4	1015.7	976.7	955.3	950.8	954.4	960.4
27.5°	1137.6	1141.0	1144.9	1103.0	1029.3	958.7	919.1	904.3	908.8	917.6	923.3
30°	1180.8	1189.9	1181.4	1095.4	981.6	893.4	855.7	851.5	863.8	876.2	882.3
32.5°	1222.7	1236.9	1216.4	1075.8	920.0	824.3	795.1	793.9	809.0	821.0	829.4
35°	1256.6	1284.6	1242.7	1036.8	848.7	760.6	739.2	731.1	736.5	750.6	760.3
37.5°	1300.6	1347.4	1260.8	977.4	771.5	708.1	683.1	664.4	659.5	665.2	670.1
40°	1381.2	1443.1	1269.2	894.4	696.1	655.6	630.3	602.8	583.8	569.8	570.2
42.5°	1512.8	1567.8	1263.8	793.5	626.3	604.3	575.6	543.9	513.1	481.7	479.3
45°	1726.5	1753.1	1247.5	686.6	565.1	550.5	523.7	492.0	451.0	415.3	412.0
47.5°	2068.5	2009.6	1222.2	593.4	511.0	505.0	480.2	443.7	400.2	371.6	369.2
50°	2534.8	2380.0	1209.8	519.2	463.4	465.1	444.9	406.2	365.3	344.1	341.7
52.5°	3092.6	2811.3	1233.6	461.8	425.0	431.3	416.2	380.0	345.6	329.0	326.6
55°	3671.2	3258.1	1259.3	420.1	388.7	401.1	396.0	366.1	335.1	319.6	317.6
57.5°	4166.6	3591.6	1207.9	386.3	356.5	375.8	380.4	357.3	329.6	315.7	313.3
60°	4478.4	3725.9	1073.3	354.6	330.8	355.6	371.2	354.9	331.7	330.5	328.7
62.5°	4626.3	3714.2	871.4	329.6	314.9	346.8	377.9	368.5	355.9	366.8	367.7
65°	4559.9	3536.6	648.9	313.0	303.3	350.2	397.9	394.2	362.8	373.6	375.2
67.5°	4122.8	3113.1	480.5	298.6	290.6	359.5	434.0	402.6	349.2	357.1	352.2
70°	3332.3	2468.1	370.7	282.3	277.7	358.3	450.3	397.5	334.4	336.3	323.2
72.5°	2297.9	1683.0	301.5	267.2	259.0	326.6	438.9	384.8	322.0	308.2	291.0
75°	1249.6	903.4	256.3	251.4	226.1	286.7	417.7	375.8	310.9	292.5	282.8
77.5°	491.7	374.9	222.5	230.0	197.7	253.3	394.2	358.6	295.5	271.4	266.5
80°	200.7	191.3	184.4	198.9	169.9	221.5	365.8	338.3	277.0	251.7	242.1
82.5°	113.8	119.0	143.4	157.0	138.0	204.0	352.2	322.0	255.1	225.4	214.0
85°	58.2	69.7	100.0	112.6	101.4	173.5	324.5	281.9	204.7	172.6	173.5
87.5°	28.0	38.9	63.1	70.6	65.8	125.6	242.4	204.4	159.4	126.1	122.2
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)