

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: P318866

Luminaire Tested: **GAN-SA2A-830-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318866
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-16)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2A-830-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7621 lumens
Efficiency: N/A
Efficacy: 115.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

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

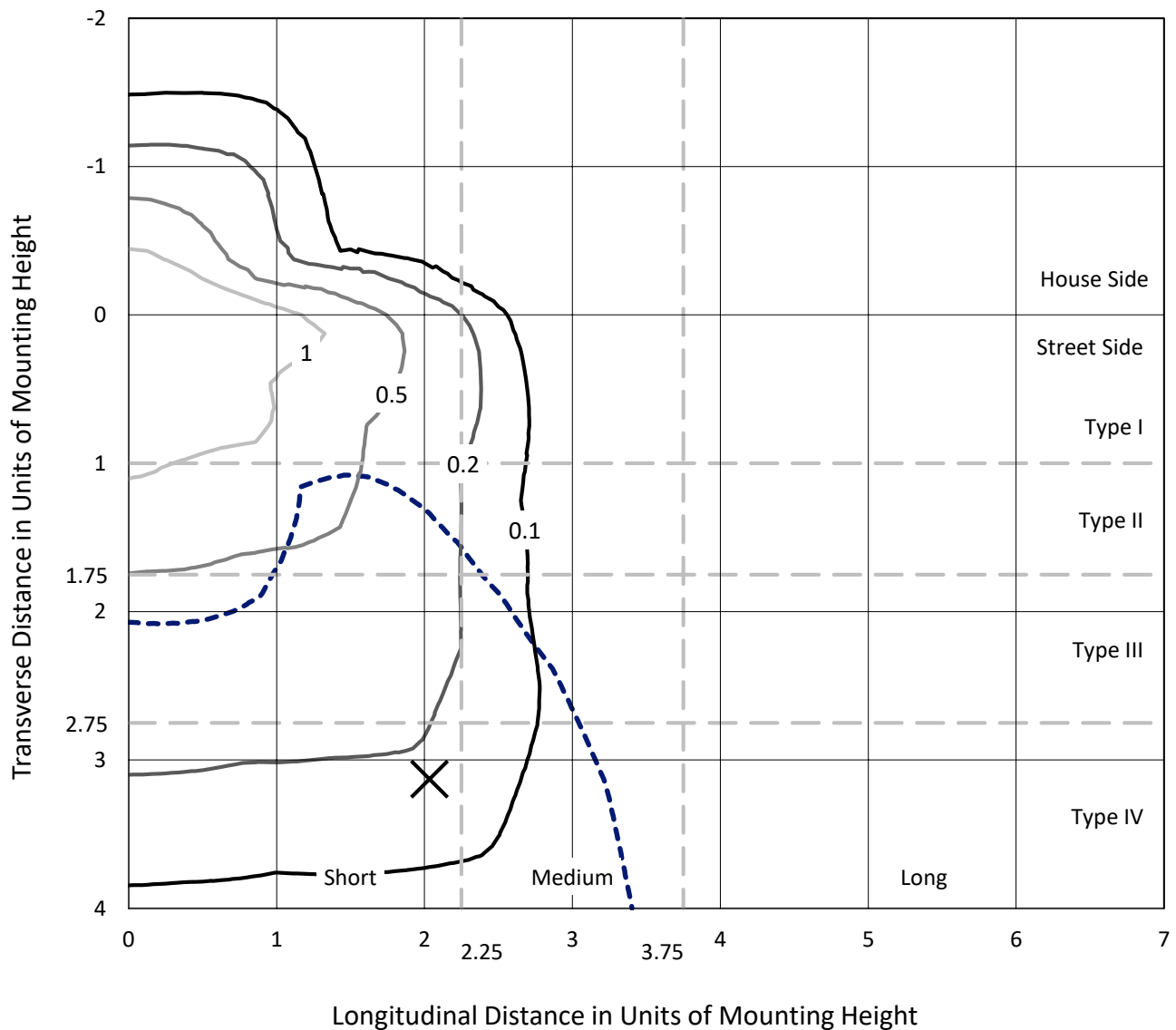


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Iso-Footcandle Lines of Horizontal Illumination

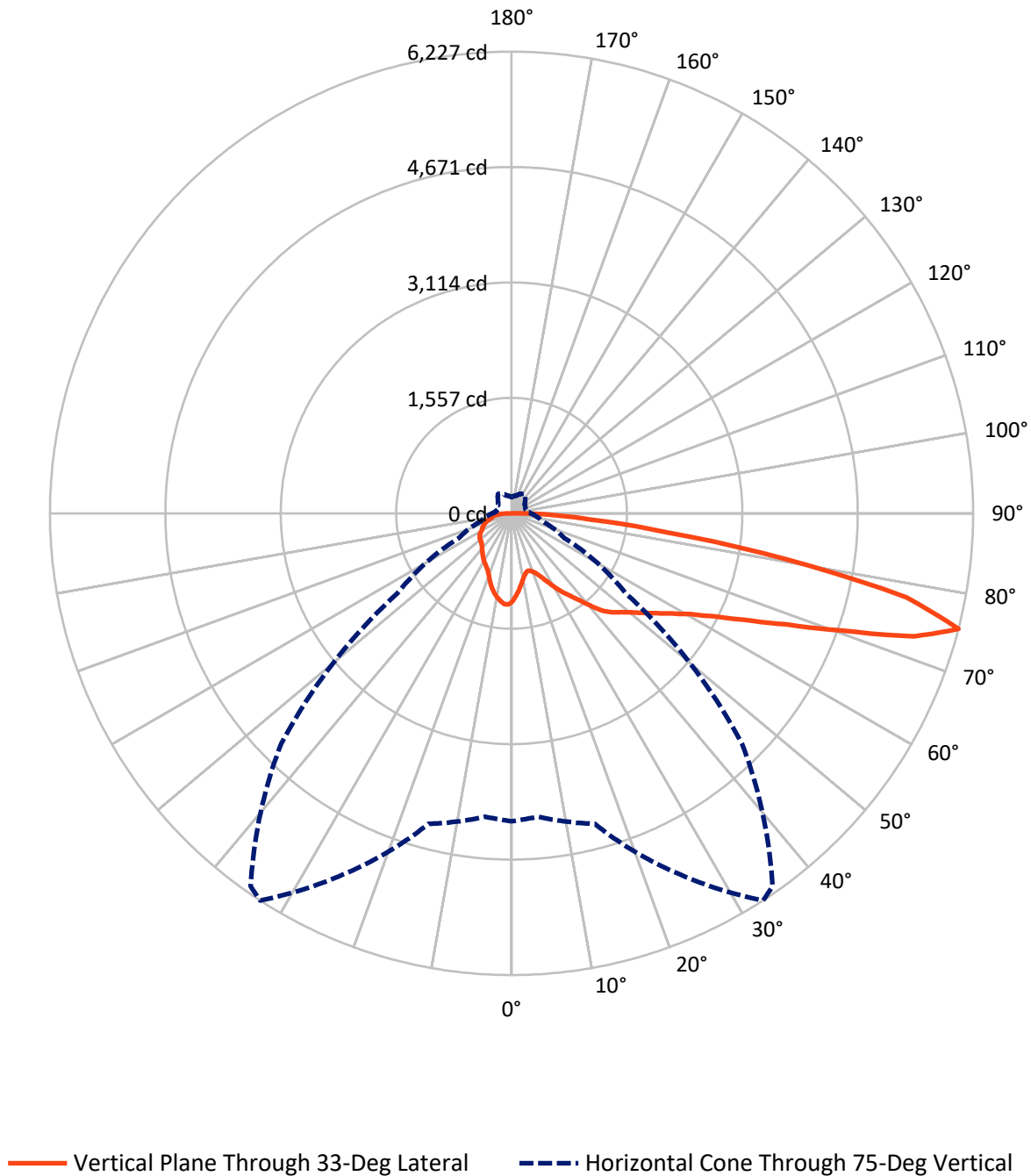
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1636.4	0.0	1636.4
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	5984.6	0.0	5984.6
	% Fixture	78.5	0.0	78.5
Total	Lumens	7621.0	0.0	7621.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.7	1.4
10°-20°	291.8	3.8
20°-30°	476.5	6.3
30°-40°	709.6	9.3
40°-50°	1017.8	13.4
50°-60°	1397.3	18.3
60°-70°	1749.4	23.0
70°-80°	1582.6	20.8
80°-90°	288.3	3.8
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°	7621.0	100.0
0°-180°	7621.0	100.0

Coefficient of Utilization



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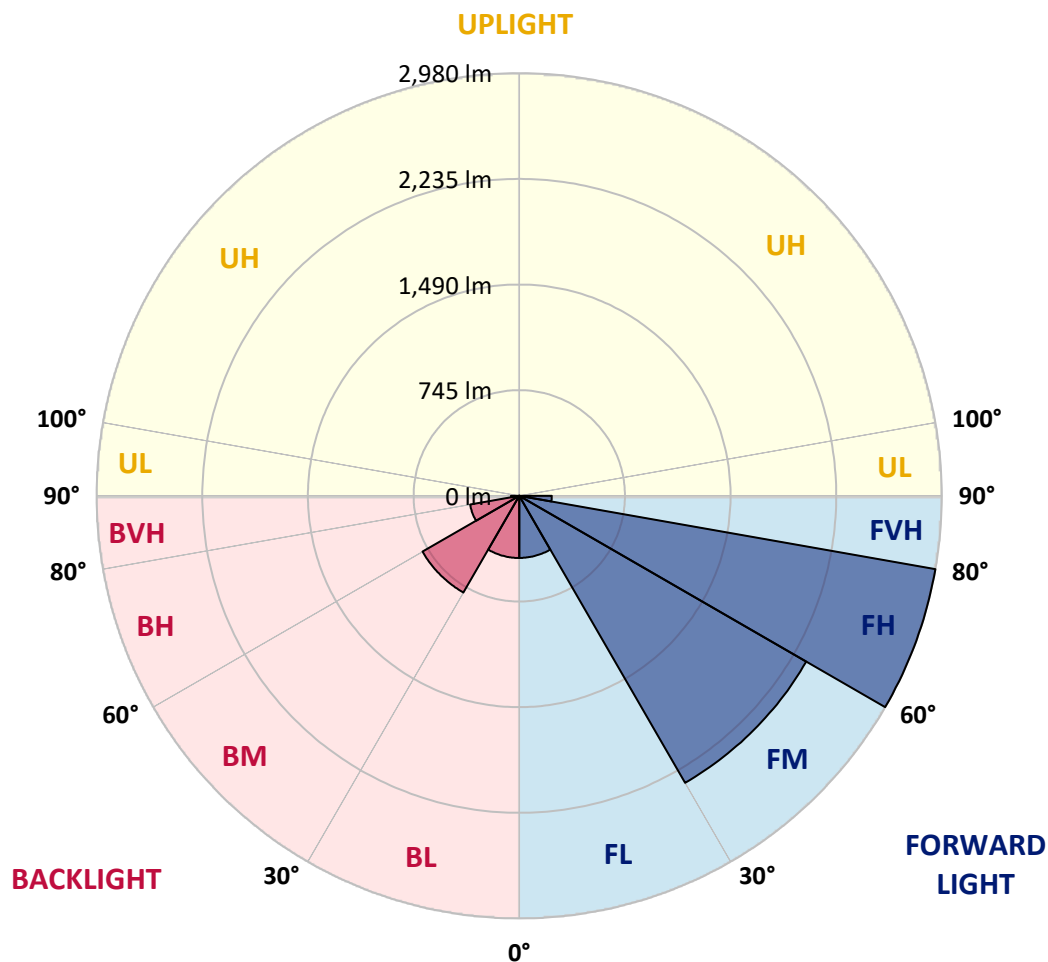
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	437.7	5.7			
FM	(30°-60°)	2337.2	30.7			
FH	(60°-80°)	2980.1	39.1			G2/5000
FVH	(80°-90°)	229.6	3.0			G3/500
BL	(0°-30°)	438.3	5.8	B1/500		
BM	(30°-60°)	787.6	10.3	B1/1000		
BH	(60°-80°)	351.9	4.6	B1/500		G1/500
BVH	(80°-90°)	58.7	0.8			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	1191.2	1191.2	1191.2	1191.2	1191.2	1191.2	1191.2	1191.2	1191.2	1191.2	1191.2
2.5°	1106.2	1102.0	1109.9	1110.9	1117.8	1120.4	1129.9	1144.6	1156.7	1170.7	1183.3
5°	1005.9	1003.0	1014.0	1021.9	1036.9	1043.3	1065.6	1097.0	1124.9	1156.5	1185.2
7.5°	910.6	909.0	921.4	939.3	956.6	965.3	1004.0	1049.6	1096.2	1147.2	1191.2
10°	830.3	829.8	841.6	859.2	884.8	894.5	944.5	1004.6	1069.8	1140.1	1201.5
12.5°	785.3	787.1	792.6	807.4	831.1	840.8	896.4	966.9	1047.7	1137.8	1216.5
15°	796.3	799.2	789.7	789.2	806.1	813.7	865.8	940.1	1031.9	1141.7	1238.3
17.5°	843.5	844.0	819.0	803.2	813.4	817.4	856.4	924.8	1022.7	1150.7	1265.7
20°	909.8	908.5	864.2	837.9	843.5	844.5	869.8	925.1	1021.9	1166.2	1301.2
22.5°	997.7	988.0	928.5	892.7	891.4	889.8	904.3	944.5	1033.5	1191.5	1343.6
25°	1112.5	1103.3	1021.4	972.4	961.9	958.0	960.1	986.1	1056.4	1218.6	1391.0
27.5°	1240.2	1224.1	1145.1	1075.9	1054.1	1048.5	1035.9	1044.8	1081.4	1244.6	1447.3
30°	1347.0	1338.4	1269.4	1187.3	1161.5	1153.6	1120.4	1110.7	1117.5	1280.2	1518.4
32.5°	1406.8	1401.0	1359.2	1292.8	1268.9	1257.8	1210.9	1191.5	1175.4	1336.3	1614.8
35°	1479.2	1475.5	1450.2	1402.1	1366.5	1354.9	1318.6	1298.3	1257.0	1413.4	1739.3
37.5°	1571.3	1567.4	1567.9	1529.0	1486.6	1475.8	1451.8	1430.5	1362.8	1514.7	1874.6
40°	1675.6	1668.0	1665.1	1663.2	1636.4	1630.3	1617.7	1588.7	1495.5	1635.8	2008.1
42.5°	1832.5	1805.4	1747.5	1769.3	1795.9	1792.7	1803.0	1761.4	1642.9	1779.0	2138.4
45°	1983.8	1939.4	1839.3	1844.1	1902.2	1919.9	1996.7	1967.3	1802.7	1935.9	2273.2
47.5°	2052.8	2019.1	1934.1	1934.4	1992.0	2028.6	2197.1	2176.0	1970.7	2114.2	2437.7
50°	2130.0	2096.3	2019.9	2048.6	2098.9	2137.9	2390.6	2379.8	2130.5	2309.2	2634.9
52.5°	2214.2	2157.1	2108.6	2160.0	2230.5	2275.8	2584.3	2554.8	2277.1	2505.6	2861.5
55°	2215.2	2199.7	2236.6	2274.2	2379.8	2435.3	2787.3	2709.4	2396.6	2698.6	3046.1
57.5°	2341.3	2316.1	2394.3	2411.6	2549.6	2612.2	2989.2	2843.9	2518.2	2846.5	3145.6
60°	2508.2	2486.7	2550.6	2596.4	2759.6	2843.4	3204.8	2982.1	2613.8	2958.1	3140.8
62.5°	2796.5	2772.0	2771.2	2835.5	3055.3	3152.7	3446.7	3117.7	2651.7	2980.3	3006.8
65°	3218.5	3179.5	3106.1	3136.6	3463.6	3560.7	3717.1	3215.9	2601.7	2861.8	2661.7
67.5°	3629.2	3627.8	3537.5	3600.2	4002.7	4080.6	4025.1	3225.6	2445.6	2449.3	2049.4
70°	4038.5	4043.8	4028.5	4246.5	4731.1	4812.2	4353.1	3094.8	2094.7	1768.8	1227.8
72.5°	4362.8	4361.5	4438.4	5000.4	5676.5	5658.3	4629.5	2698.3	1503.9	954.8	586.8
75°	4152.8	4107.0	4336.0	5373.7	6227.4	6138.7	4394.4	1882.2	780.5	434.6	315.9
77.5°	2708.6	2752.0	3088.2	4439.2	5447.2	5339.2	3224.0	878.2	367.8	285.1	229.0
80°	980.9	1026.7	1446.0	2514.6	3752.9	3735.3	1587.7	360.9	248.8	215.3	166.9
82.5°	337.5	354.3	570.5	1116.7	2118.9	2197.9	597.3	205.1	180.9	152.7	114.3
85°	132.4	151.6	260.9	537.3	1068.8	1076.7	241.9	122.7	125.8	100.0	62.7
87.5°	50.3	61.1	124.8	249.6	488.1	448.3	86.6	58.4	71.6	59.5	29.7
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°	1191.2	1191.2	1191.2	1191.2	1191.2	1191.2	1191.2	1191.2	1191.2	1191.2	1191.2
2.5°	1193.0	1198.6	1210.2	1218.1	1226.5	1228.8	1229.9	1232.0	1234.1	1233.3	1233.6
5°	1200.4	1211.2	1229.9	1237.8	1241.5	1237.3	1229.1	1222.5	1217.8	1215.2	1214.4
7.5°	1212.5	1227.8	1247.8	1246.5	1238.1	1219.4	1198.3	1182.5	1169.4	1164.6	1162.0
10°	1228.6	1246.5	1260.4	1245.4	1221.0	1188.6	1157.0	1132.5	1112.8	1105.1	1103.8
12.5°	1249.1	1267.3	1269.9	1238.1	1197.5	1153.3	1110.4	1078.0	1048.5	1039.0	1036.9
15°	1275.7	1292.8	1276.5	1225.2	1168.6	1109.1	1053.5	1009.6	978.5	966.9	962.7
17.5°	1303.6	1319.9	1277.8	1203.8	1130.7	1056.7	986.9	941.9	906.4	892.9	891.4
20°	1337.0	1344.4	1272.3	1173.3	1078.5	988.8	915.3	872.9	854.0	844.5	843.5
22.5°	1378.4	1370.5	1259.6	1132.0	1012.5	910.3	850.6	830.8	826.1	824.0	824.8
25°	1422.1	1397.9	1241.0	1078.0	929.0	831.9	803.2	808.7	815.0	814.2	814.2
27.5°	1470.2	1425.8	1212.3	1006.4	836.6	767.6	771.1	791.3	800.8	800.5	800.3
30°	1532.1	1457.4	1175.7	920.3	750.3	722.4	743.2	767.9	780.8	780.3	780.5
32.5°	1608.2	1492.1	1125.9	824.2	687.9	688.9	712.9	737.4	752.4	751.1	751.3
35°	1697.2	1531.1	1058.5	729.5	646.5	662.3	681.3	698.4	712.6	710.8	708.9
37.5°	1794.0	1569.2	969.0	644.7	612.8	637.6	653.4	656.3	662.9	658.1	654.7
40°	1886.2	1598.5	853.7	575.2	578.9	616.5	626.8	615.2	603.4	601.8	597.1
42.5°	1966.5	1608.2	737.1	519.7	543.1	594.4	600.7	576.5	555.2	545.2	541.0
45°	2051.2	1611.6	628.4	473.1	508.6	574.7	581.5	549.1	519.1	497.5	490.4
47.5°	2162.1	1636.4	543.9	438.6	482.3	561.5	571.3	527.3	488.3	457.5	450.9
50°	2307.1	1685.3	475.2	412.2	465.2	552.8	563.9	506.0	463.1	425.9	419.4
52.5°	2468.2	1730.3	419.6	390.9	448.6	537.6	554.4	490.7	439.4	396.7	389.6
55°	2580.9	1695.9	374.9	368.8	427.0	515.7	541.2	477.8	405.4	368.3	362.0
57.5°	2602.5	1577.9	340.9	345.9	400.9	488.3	521.0	449.1	387.0	355.9	349.3
60°	2543.5	1413.7	315.6	324.9	373.0	453.8	483.1	428.8	369.3	342.8	337.2
62.5°	2395.3	1245.4	296.9	305.9	347.0	418.8	459.4	407.5	351.4	327.7	322.2
65°	2096.0	1045.6	279.0	289.0	322.7	388.6	438.0	387.8	333.8	315.6	310.4
67.5°	1582.1	783.2	262.2	271.1	301.2	362.2	414.9	368.3	316.7	305.1	298.8
70°	931.6	490.4	243.0	252.5	278.5	334.9	390.1	347.0	295.4	290.1	281.9
72.5°	433.6	295.1	221.1	230.3	250.1	298.3	358.3	319.1	270.1	258.5	247.5
75°	258.8	215.9	195.3	203.5	217.4	259.3	318.3	290.6	246.1	230.9	219.3
77.5°	193.5	165.1	166.9	175.6	186.9	226.9	281.9	268.3	227.7	215.9	208.0
80°	139.3	125.3	136.1	145.6	157.4	206.4	270.1	248.0	205.9	190.1	182.7
82.5°	92.9	90.0	102.4	112.1	123.7	180.6	253.8	217.2	175.9	155.8	139.5
85°	51.3	54.2	69.0	73.2	83.2	127.1	208.0	174.5	132.4	106.6	101.9
87.5°	21.3	25.0	37.1	35.8	44.2	75.8	136.9	105.3	84.2	62.9	49.0
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)